

# Curriculum Vitae

*Giancarlo Fortino*

Prof. Giancarlo Fortino  
IEEE Fellow and WoS Highly Cited Researcher 2020-2022  
Full Professor of Computer Engineering  
DIMES - Department of Informatics, Modeling, Electronics, and Systems  
University of Calabria  
Via P. Bucci, cubo 41C  
87036 Rende (CS), ITALY  
Tel. +39.0984.494063  
Fax. +39.0984.494713  
email: [g.fortino@unical.it](mailto:g.fortino@unical.it), [g.fortino@ieee.org](mailto:g.fortino@ieee.org),  
[fortino@icsl.berkeley.edu](mailto:fortino@icsl.berkeley.edu), [g.fortino@qut.edu.au](mailto:g.fortino@qut.edu.au),  
web: <https://labs.dimes.unical.it/speme/people/giancarlo-fortino/>

Chair of the PhD School in ICT  
Director of the SPEME Lab  
Director of the Postgraduate Master INTER-IoT  
Co-Director of Joint labs with Chinese Universities on IoT for Smart Logistics (Unical-WUT), IoT for Smart Port (Unical-SMU), and IoT for Smart Agriculture (Unical-HZAU)  
CEO of Sensyscal S.r.l. (spin-off company of Unical)  
Founder and co-CEO of BigTech S.r.l. (start-up company of Unical)

Coordinator of Rector's Delegates for International Relations  
Rector's Delegate for Extra-EU International Actions Coordination  
Rector's Delegate for China and Australia International Relations

Distinguished Lecturer of the IEEE Sensors Council (2021-2023)  
High-end Foreign Expert in China  
Distinguished Professor at Huazhong Agricultural University, China  
Adjunct Professor at Wuhan University of Technology, China  
Adjunct Senior Research Fellow at ICAR-CNR, Italy  
High-end Expert of HUST (Huazhong University of Science and Technology)  
CAS PIFI Visiting Scientist at SIAT (Shenzhen, China)  
High-end Expert of Henan Province at NIT (China)

\*(founding) EiC of Springer Series on Internet of Things and of IEEE Press Book series on Human-Machine Systems  
\*Associate Editor of IEEE Trans. on Human-Machine Systems, IEEE Trans. on Affective Computing, IEEE Transactions on Artificial Intelligence, IEEE Transactions on Automation Science and Engineering (senior editor), IEEE IoT Journal, IEEE Sensors Journal, IEEE JBHI, IEEE Access, IEEE OJEMB, IEEE OJCS, Information Fusion (area editor), Engineering Application of Artificial Intelligence, BDCC (co-EiC).  
\*Co-(founding)chair of IEEE SMC TC on "Interactive and Wearable Computing and Devices"  
\*Member-at-large of IEEE SMCS BoG  
\*(Former) Chair of Italian IEEE SMC Chapter  
\*Co-(founding)chair of IEEE Systems Council TC on "Hyper Intelligence"

Bibliometrics:

Google Scholar: <https://scholar.google.it/citations?user=eclmn1MAAAA&hl>  
Scopus: <https://www.scopus.com/authid/detail.uri?authorId=6602895297>  
WoS: <https://www.webofscience.com/wos/author/record/16521>  
ResearchGate: [https://www.researchgate.net/profile/Giancarlo\\_Fortino/research](https://www.researchgate.net/profile/Giancarlo_Fortino/research)  
DBLP: <https://dblp.uni-trier.de/pers/hy/f/Fortino:Giancarlo>  
ORCID: <https://orcid.org/0000-0002-4039-891X>

# INDEX

INDEX.....	2
SHORT BIOGRAPHY.....	3
1-PAGE CURRICULUM VITAE.....	4
HIGHLIGHTS OF MAIN ACHIEVEMENTS.....	5
RESEARCH ACTIVITY.....	8
RESEARCH/TECHNICAL PROJECTS.....	9
RESEARCH PERIODS AND POSITIONS ABROAD*.....	12
SCIENTIFIC COLLABORATIONS.....	13
RESEARCH-ORIENTED PROFESSIONAL ACTIVITY.....	14
MEMBER OF ADVISORY EDITORIAL BOARD OF INTERNATIONAL JOURNAL.....	14
CO-EDITOR OF SPECIAL ISSUES.....	15
CO-EDITOR OF BOOKS (NO CONFERENCE PROCEEDINGS):.....	19
MEMBER OF THE STEERING COMMITTEE INTERNATIONAL CONFERENCES/WORKSHOPS.....	20
CHAIR OF CONFERENCES/WORKSHOPS/SPECIAL SESSIONS.....	20
MEMBER OF PROGRAM COMMITTEES OF INTERNATIONAL CONFERENCES.....	25
REVIEWER FOR INTERNATIONAL JOURNALS.....	25
IEEE SOCIETY POSITIONS AND ACTIVITIES.....	26
OTHER SCIENTIFIC SOCIETIES.....	27
INVITED TALKS, KEYNOTES, TUTORIALS, AND PANELS.....	27
PHD MENTORSHIP.....	32
FOREIGN/EXTERNAL PHD THESIS EVALUATOR.....	33
National and International Committees for the Evaluation of Professorship Positions.....	33
International Committees for Assessment of Research Project Proposals.....	33
TEACHING ACTIVITY.....	34
INTERNATIONALIZATION ACTIVITY.....	38
PUBLICATIONS.....	40
INTERNATIONAL JOURNALS.....	40
GUEST EDITORIALS IN JOURNALS.....	55
BOOK CHAPTERS AND MISCELLANEOUS VOLUMES (LNCS, LNAI, LNEE, ... ).....	58
CONFERENCES.....	62
AUTHORED BOOKS.....	76
EDITED BOOKS.....	76
PROCEEDINGS.....	77
PATENTS.....	79
NEWSLETTERS & INTERVIEWS.....	79
TECHNICAL REPORTS.....	80
THESES.....	80

## SHORT BIOGRAPHY



Giancarlo Fortino is currently Full Professor of Computer Engineering at the Department of Informatics, Modeling, Electronics and Systems (DIMES) of the University of Calabria (Unical), Rende (CS), Italy. In 2013 he took the Italian Scientific Habilitation for Full Professorship. He received a Laurea Degree (BSc+MSc) in Computer Engineering and a PhD in Computer Engineering from the University of Calabria, Italy, in 1995 and 2000, respectively. He has been a *Research Scholar* at the International Computer Science Institute (ICSI), Berkeley (CA), USA, in 1997 and 1999, and *Visiting Professor* at Queensland University of Technology (QUT), Brisbane, Australia, in 2009. He was also Assistant Professor (2001-2006) and Associate Professor (2006-2018) at University of Calabria. He was nominated *Guest Professor* in Computer Engineering of Wuhan

University of Technology on April, 18 2012 (the term of appointment is three years) and in April 2015 he was nominated *Adjunct Full Professor* of Computer Engineering in the framework of High-End Foreign Experts in China (the term of appointment is three years). Since 2015 he is Adjunct Senior Research Fellow at ICAR-CNR (Italian National Research Council). In 2017 he was also nominated *High-end Expert* at HUST (Huazhong University of Science and Technology), China. In 2019, he won a CAS PIFI grant at SIAT in Shenzhen (China) covering a *Visiting Scientist* position and was also nominated Distinguished Professor of Huazhong Agricultural University (China). In 2022, he was nominated High-End Expert of Henan Province (China) with sponsorship from Nanyang Institute of Technology. He is co-founder and CEO of SenSysCal S.r.l., a spin-off of University of Calabria, whose mission is the development of innovative systems and services based on Internet of Things technology for health care, energy management and structural health. He is more recently also cofounder and vice-CEO of the spin-off Bigtech S.r.l, focused on big data, AI and IoT technologies. He was the Director of the Postgraduate School (2<sup>nd</sup> Level Italian MSc) on INTER-IoT: *Integrator and Manager of IoT Systems*. His research interests include distributed computing and networks, agent systems, agent oriented software engineering, body area networks and wearable computing, wireless sensor networks, Internet of Things (including social and trust mechanism), multimedia streaming content distribution networks, GRID/Cloud computing. He is the founder and director of the SPEME (Smart, Pervasive and Mobile systems Engineering) lab that is engaged in cutting-edge research on novel programming languages, systems, protocols and architectures, and in their implementation in smart, pervasive and mobile systems and their emerging application domains. He has been involved in many research and development projects in the research/technical areas of Internet of Things, wireless sensor networks, intelligent and mobile agents, and content delivery networks. He gained funding for more than 5MEuro (only Unical budget). In particular, he is the deputy coordinator of the EU-funded (6MEuro) HE project MLSysOps and the coordinator of two national projects Radioamica (4MEuro) and COMMON-Wears (1MEuro). He is author of many papers (550+) in international journals (220+ papers in Top-level Journals including IEEE, ACM and Elsevier), conferences (majority IEEE conferences) and books (edited by Springer and IEEE Press). From the bibliometrics viewpoint, he is in the list of Top Italian Scientists (TIS) by VIA-academy and Guide2Research, with h-index=73 and about 20000 citations according to GS. According to the SciVal tool based on the Scopus database, in the period years (2015-19), he was ranked N. 39 in the Computer Science field in the ranking of Top 500 authors, by Scholarly Output in the World, based on the FWCI index, is N. 1 in the Research Area "Hardware and Architecture" and N. 1 in the topic "Body Sensor Network; Smart Object; Interoperability". According to WoS, he has currently 20 highly cited papers and is [WoS Highly Cited Researcher 2020, 2021 and 2022 in Computer Science](#). He is the co-founder and responsible of the Italy-China *Joint-Labs*: Joint Lab on Internet of Things Technologies established between Unical and Wuhan University of Technology on July 2012 (WUT resp. Prof. Wenfeng Li); *Joint-Lab on Internet of Things Technologies oriented to Smart Port* established between Unical and Shanghai Maritime University on Nov 2017 (SMU resp. Prof. Yongsheng Yang); *Joint-Lab on Internet of Things technologies oriented to Smart Agriculture* established between Unical and Huazhong Agriculture University on Nov 2019 (HZAU resp. Prof. Qingxi Liao). He has been awarded with the 2014 Andrew P. Sage Best IEEE SMC Transactions Paper. He is founding series editor of the IEEE Press Book Series on Human-Machine Systems and founding editor-in-chief of Springer Book Series on "Internet of Things: Technology, Communications and Computing" and currently serves as associate editor in the editorial board of IEEE T. on Affective Computing, IEEE T. on Human-Machine Systems, IEEE T. on Artificial Intelligence, IEEE T. Automation Science & Eng. (senior editor), IEEE IoT Journal, IEEE Sensors Journal, IEEE JBHI, IEEE Access, IEEE SMC Magazine, JNCA (Journal of Networks and Computer Applications, Elsevier), EAAI (Engineering Applications of Artificial Intelligence, Elsevier), INFFUS (Information Fusion, Elsevier, area editor on sensor fusion), Journal of Distributed Sensor Networks (Sage), Journal of Smart Health (Elsevier), CASM (Complex Adaptive Systems Modeling, Springer), Journal of Big Data and Cognitive Computing (MDPI), MAGS (Multi Agent and GRID Systems, IOS Press), SCPE (Scalable Computing: Practice and Experience). He organized as chair many int'l workshops and conferences (120+), was involved in a huge number of int'l conferences/workshops (650+) as IPC member, is/was guest-editor of many special issues (80+) on Content Networks, Multimedia Systems, Agent-based Computing, Wireless Sensor Networks, Body Sensor Networks, Cloud Computing in many ISI-impacted journals (e.g. IEEE T. on Affective Computing, IEEE T. on Service Computing, IEEE T. on Automation Science&Eng, IEEE T. on Human-Machine Systems, IEEE IoTJ, IEEE Access, INFFUS, COMNET, JNCA, FGCS, JOS, SIMPAT, MONET, CERA, CCPE, EAAI, Sensors, IJDSN, MIS, Cluster Computing, MTAP, Simulation). He is IEEE Fellow (class 2022) and member of the IEEE Computer, Communications, SMC, and IoT societies, co-chair of the IEEE SMC TC on "Interactive and Wearable Computing and Devices", member of the IEEE Press Editorial Board (2017-2019), and also member of ACM. He is member of the BoG of the IEEE SMC Society (first term 2018-2020, reconfirmed for the second term 2021-2023) and is chair of the IEEE SMC Society Italian Chapter. He is also Fellow of the Asia-Pacific Artificial Intelligence Association (AAIA).

## 1-Page Curriculum Vitae

- Title: Full Professor
- Office Mailing Address: Department of Informatics, Modeling, Electronics, and Systems (DIMES), Via P. Bucci, cubo 41C, 87036 Rende (CS), Italy
- Email: [g.fortino@unical.it](mailto:g.fortino@unical.it)
- Contact number: +39 3494131595
- Current Position: Full Professor of Computer Engineering (Full-time, 100%), DIMES - University of Calabria
- **Academic qualifications**
  - 2000 PhD in Systems and Computer Engineering, University of Calabria, Italy
  - 1995 Laurea degree (B.Sc.+M.Sc.) in Computer Engineering, University of Calabria, Italy
- **Research interests**

Wearable Computing Systems, Body Sensor Networks, Internet of Things, Agent Computing, Human-Machine Systems
- **Research positions in other institutions**
  - 1997 and 1999 Visiting Researcher at International Computer Institute, Berkeley, CA, USA
  - 2009 Visiting Professor at Queensland University of Technology, Australia
  - 2015-17 Guest and Adjunct Professor at Wuhan University of Technology, China
  - 2017- High-end Expert at Huazhong University of Science and Technology, China
  - 2015- Adjunct Senior Research Fellow at ICAR-CNR (Italian National Research Council), Italy
  - 2019-2021 Visiting Scientist, CAS PIFI at SIAT (Shenzhen, China)
  - 2019- Distinguished Professor, Huazhong Agricultural University (Wuhan, China)
- **Selected Research projects in AI/BSN/IoT area**
  - Deputy coordinator of the EU-funded HE project MLSysOps (Machine Learning for Autonomic System Operation in the Heterogeneous Edge-Cloud Continuum), 2023-25;
  - National Coordinator of Italian MUR project funded COMMON-WEARS in the PRIN-Basic Research framework, 2022-24;
  - Deputy coordinator and STPM of the EU-funded H2020 project INTER-IoT (Interoperability of IoT Platforms, <http://www.inter-iot.eu>), 2016-18;
  - Scientific Responsible of the Open-Source SPINE BoK project (<https://projects.dimes.unical.it/spine-bok/>), 2008-on going.
  - UNICAL Coordinator of EU-funded ENIAC E2SG (Energy to Smart Grid), 2012-2015.
  - UNICAL Coordinator of EU-funded FP7 CONET (Network of EXcellence in Cooperating Smart Objects), 2009-12.
- **Bibliometrics**

He is author of 600+ papers in international journals, conferences and books. He is Highly Cited Researcher 2020-2022 by Clarivate in Computer Science. In Google Scholar, he got 18600+ citations and h-index=72.
- **Scientific Organization Activity**
  - Founding editor of the Springer Book Series on "Internet of Things: Technology, Communications and Computing" and of the IEEE Press Book Series on Human-Machine Systems
  - Member of the editorial board of IEEE Trans. on Affective Computing, AI, Human-Machine Systems, Automation Systems and Eng., IEEE IoT J, IEEE Sensors J, IEEE JBHI, IEEE OJCOMS, IEEE OJEMB, IEEE SMC MAG, EAAI, INFFUS.
  - Chair of 130+ workshops and conferences
  - Guest-editor of 80+ special issues in renowned journals.
  - Member of TPC of 600+ int'l conferences/workshops
- **IEEE Services**
  - IEEE Fellow
  - Founding Co-chair of the IEEE SMC TC on "Interactive and Wearable Computing and Devices" and IEEE Systems Council TC on "Hyper Intelligence"
  - Member of the BoG of the IEEE SMC Society (term 2018-20, 2021-23)
  - Past Chair of the IEEE SMC Italian Chapter.
- **Technology Transfer and Spin-offs**
  - Founder and CEO of Sensyscal Srl – Unical spin-off, aimed at development of innovative IoT systems
  - Director of Postgraduate (Industry-oriented) II-level Master on INTER-IoT: Integrator and Manager of IoT Systems
- **Publications (10 ISI Highly Cited Papers in the area of AI, Human-centred Wearable and IoT Computing)**
  1. F. Piccialli, V. Di Somma, F. Giampaolo, S. Cuomo, G. Fortino: A survey on deep learning in medicine: Why, how and when? *Inf. Fusion* 66: 111-137 (2021)
  2. G. Fortino, C. Savaglio, G. Spezzano and M. Zhou, "Internet of Things as System of Systems: A Review of Methodologies, Frameworks, Platforms, and Tools," in *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 51, no. 1, pp. 223-236, Jan. 2021, doi: 10.1109/TSMC.2020.3042898.
  3. M. M. Hassan, A. Gumaiei, A. Alsanad, M. A. AlRubaian, G. Fortino: A hybrid deep learning model for efficient intrusion detection in big data environment. *Inf. Sci.* 513: 386-396 (2020)
  4. C. Savaglio, M. Ganzha, M. Paprzycki, C. Badica, M. Ivanovic, G. Fortino: Agent-based Internet of Things: State-of-the-art and research challenges. *Future Gener. Comput. Syst.* 102: 1038-1053 (2020)
  5. M. Chen, W. Li, G. Fortino, Y. Hao, L. Hu, I. Humar: A Dynamic Service Migration Mechanism in Edge Cognitive Computing. *ACM Trans. Internet Techn.* 19(2): 30:1-30:15 (2019)
  6. P. Pace, G. Aloï, R. Gravina, G. Caliciuri, G. Fortino, A. Liotta: An Edge-Based Architecture to Support Efficient Applications for Healthcare Industry 4.0. *IEEE Trans. Ind. Informatics* 15(1): 481-489 (2019)
  7. M. Frustaci, P. Pace, G. Aloï, G. Fortino: Evaluating Critical Security Issues of the IoT World: Present and Future Challenges. *IEEE Internet Things J.* 5(4): 2483-2495 (2018)
  8. K. Lin, M. Chen, J. Deng, M. M. Hassan, G. Fortino: Enhanced Fingerprinting and Trajectory Prediction for IoT Localization in Smart Buildings. *IEEE Trans Autom. Sci. Eng.* 13(3): 1294-1307 (2016)
  9. G. Fortino, S. Galzarano, R. Gravina, W. Li: A framework for collaborative computing and multi-sensor data fusion in body sensor networks. *Inf. Fusion* 22: 50-70 (2015)
  10. G. Fortino, R. Giannantonio, R. Gravina, P. Kuryloski, R. Jafari: Enabling Effective Programming and Flexible Management of Efficient Body Sensor Network Applications. *IEEE Trans. Hum. Mach. Syst.* 43(1): 115-133 (2013)

## HIGHLIGHTS OF MAIN ACHIEVEMENTS

- *Professorship.* He is Full Professor starting Nov 25, 2018. He was one of the youngest associate professors in Italy in the Computer Engineering – Computing Systems sector. He became associate professor in the 2006 at the age of 35 years old, after only 5 years he became assistant professor (2001). Usually the average age to get in the associate professor position in Italy is more than 40 years old. *In 2013, he took the Italian National Habilitation for Full Professorship.* He was also one of the youngest associate professors habilitated to the full professor position in Italy. Usually the average age to get in the full professor position (or being habilitated) in Italy is more than 50 years old. *In 2018, he won a competitive examination to be promoted Full Professor at Unical.* He was Guest Professor in Computer Engineering of Wuhan University of Technology from April 2012 to April 2015. Since 2015, he is adjunct senior researcher at ICAR-CNR (Italian National Research Council), Italy. In April 2015, he was nominated *Adjunct Full Professor* of Computer Engineering of Wuhan University of Technology in the framework of *High-End Foreign Experts in China* (the term of appointment is three years). He has been also nominated (Nov 2016) *High-end Expert* at Huazhong University of Science and Technology (HUST), Wuhan, China. In Sept. 2019, he was nominated Distinguished Professor at Huazhong Agriculture University (HZAU), Wuhan, China. In 2022, he was nominated High-End Expert of Henan Province with sponsorship from Nanyang Institute of Technology.
- *Scientific Articles* (1997-2022). He is the (co)author more than 600 articles/publications in many areas of Computer Science/Computer Engineering: agent-based computing, wireless sensor networks, body area networks, signal processing, content distribution networks, distributed multimedia systems, workflow management systems, real-time systems, distributed measurement systems. Specifically, the number of papers published in journals (J), book/series chapters (B/SC), conferences/workshops (C/W), and authored books (B), respectively are: 280+ J (250+ in top-level journals), 60+ B/SC, 200+ C/W (100+ in IEEE events), 3 B. Moreover, he edited 40+ books (proceedings and collections) and wrote three theses (PhD, Master and Laurea degree).
- *Bibliometrics.*

**He is WoS Highly Cited Researcher 2022.** Currently he has **20 highly-cited papers**. He was also **Highly Cited Researcher 2020 and 2021**. He is also **High-Impact Researcher** according to Web-of-Science/InCites in the last 10 years 2013-23, prof. Fortino is ranked **top-100 researcher in the World** and **1<sup>st</sup> Italian** researcher in the computer science field. According to Scival-Scopus in the years 2015-19: he was ranked **n. 39 in the World in the Computer Science field** according to the **FWCI** index, **N. 1** in the computer science research area “**Hardware and Architecture**”, and **N. 1** in the research topic “**Body Sensor Network; Smart Object; Interoperability**”.

	<b>H-index</b>	<b>Citation Number</b>	<b>Sources Number</b>
Google Scholar (GS)	72	18500+	>600
Scopus	62	13500+	550
Web of Science (WoS)	52	9600+	408
ResearchGate (RG) RG Score = 43,60 (>97.5% of RG members) Reads = 120,803	65	16000+	615

*Links to Databases:*

[Google Scholar](#)  
[SCOPUS](#)  
[ResearcherID \(WoS\)](#)  
[ResearchGate](#)

*Leader of Research Groups and Laboratories.* He is the founder and director of the Smart, Pervasive and Mobile systems Engineering (SPEME) Laboratory (<http://labs.dimes.unical.it/speme/>). Prof. Fortino coordinates a group of about 20 people: Dr. Raffaele Gravina (Ass/Prof.), Dr. Antonella Guzzo (Ass/Prof.), Dr. Francesco Pupo (Ass/Prof.), Dr. Claudio Savaglio (Tenured Assistant Prof.), Dr. Michele Ianni (Assistant Prof.), Dr. Antonio Guerrieri (CNR researcher and adjunct prof.), Dr. Qimeng Li (Postdoc), 10 Phd students, and currently 3 open positions of postdoc. The SPEME global "mission" is the development of innovative methods and systems for engineering distributed intelligent, pervasive, mobile, multimedia and multi-sensorial systems. The SPEME Lab is therefore open to networks of public and private actors, involved in the ICT sector and its correlated multiple application domains, with specific focus on the scientific and technological context of the Internet of Things and Smart Systems of Systems, such as Smart Home, Smart Health and Smart City, in their respective expertise areas. In particular, the main aim is to define novel methodologies, techniques and frameworks for the rapid development of distributed applications. The research activity is currently focused in the following research areas: Wireless Sensor Networks,

Body Area Networks, Internet of Things, Agent-based and Multi-Agent Systems, Content Delivery Networks, Vehicular Area Networks, Workflow Management Systems, IP-based Multimedia Networking. Moreover, he is the co-founder (along with Prof. Wenfeng Li) and responsible of the *Joint-Lab on IoT Technologies* established between Unical and Wuhan University of Technology on July 2012. He is also the co-founder (along with Prof. Yongsheng Yang) and responsible of the *Joint-Lab on Internet of Things Technologies oriented to Smart Port* established between Unical and Shanghai Maritime University on Nov 2017. He is also the co-founder (along with Prof. Qingxi Liao) and responsible of the Joint-Lab on Internet of Things technologies oriented to Smart Agriculture established between Unical and Huazhong Agriculture University on Nov 2019. He is also external research advisor at KSU (Saudi Arabia).

- *Leader of Scientific Research & Development Projects.* He is leading or led University, Regional, National, Industry and International projects.

Currently he is: the national coordinator of the project RADIOAMICA (funded by the Italian Ministry of Health in the POS framework), 2023-2026, and the project COMMON-WEARS (funded by the Ministry of Research in the PRIN framework), 2022-2025, is the Deputy Coordinator of the HE project MLSysOps funded by the EC (2023-2025), and the UNICAL responsible of the PRIN Project entitled "Fluidware" (2019-2022) funded by the Italian MIUR. The PRIN framework is the most important basic research framework in Italy.

He was the *Scientific and Technical Project Manager* and *Deputy Coordinator* of the EU H2020 INTER-IOT project (<http://www.inter-iot-project.eu/>) accepted to be funded (8.2 MEuro) by the EU commission in the call ICT-30 "interconnected smart objects". The project will start on January 1, 2016. INTER-IOT is aiming at the design, implementation and experimentation of an open cross-layer framework, an associated methodology and tools to enable voluntary interoperability among heterogeneous Internet of Things (IoT) platforms. The proposal will allow effective and efficient development of adaptive, smart IoT applications and services, atop different heterogeneous IoT platforms, spanning single and/or multiple application domains. Moreover, he is involved as responsible of workpackages in two applied research projects funded by the Calabria regional government: SmartDistr (agent-based logistics middleware) and LocubiRehab (rehabilitation platform based on Cloud-assisted body area networks).

Since 2008 he has had a University project accepted and funded each year. In the 2004, he received a project grant in the framework of Young Researcher projects from the University of Calabria. From 2002 to 2004 he was the responsible of a Bilateral Project (The COMODIN project - Cooperative Media On-Demand On the Internet) funded by the Italian Government, between University of Calabria and Universitat de Valencia, Spain. From 2004 to 2005 he was the responsible of the EU-funded AgentLink project (a project on technology transfer of agent-based computing) for the University of Calabria. Since 2007, he has been funded by Telecom Italia, the main Telco operator in Italy and one of the main International Telco operators, for the International SPINE (Signal Processing In-node Environment) project, which was launched by Telecom Italia, University of Calabria, Telecom/Pirelli WSN Berkeley Lab and University of Berkeley (CA), and is currently fully managed by his group (<http://spine.deis.unical.it>). Since 2009, he participates, as responsible of the University of Calabria, to the EU-funded CONET project that is a network of excellence promoting wireless sensor networked and cooperating objects technology. From 2011 to 2013, he has been the principal investigator and responsible of the research objective 4 (Middleware for Smart Objects) of the TETRIS Project funded by the Italian Government. He was the Unical technical project coordinator (TPC) of the FP7 ENIAC E2SG (Energy for Smart Grid) project, and also Unical responsible of workpackages in the INMOTO (related to smart objects and IoT) and AD-PERSONAS (related to e-Health) national projects funded by the Italian Government. He was the scientific responsible of four scientific/didactics projects in the framework "Messaggeri della Conoscenza (Messengers of Knowledge)", funded by the Italian Government. Moreover, in 1999, he participated as member with a grant to the research projects "Priority Encoding Transmission (PET)" funded by the National Science Foundation (NSF) at the ICSI (International Computer Science Institute), Berkeley (CA), USA. *Overall, he gained funding for more than 2.5M Euros.*

- *Professional Scientific Activities.* He is very active in the professional activity of Journal editor/special issue guest editor, in the organization of workshops/conferences, in being part of the program committee of conferences and workshops, in reviewing papers for the most important international Journals of his research area. Specifically, he is EiC of Springer IoT Series and of BDCC MDPI Journal, and is in the Advisory Editorial Board of the following Int'l Journals: IEEE Transactions on Affective Computing, IEEE Transactions on Human-Machine Systems, IEEE IoT Journal, IEEE Sensors Journal, IEEE Access, International Journal of Networks and Computer Applications (JNCA), Engineering Applications of Artificial Intelligence (EAAI), Information Fusion (INFFUS), Sensors MDPI, Applied Science MDPI, International Journal of Distributed Sensor Networks, International Journal of Network Protocols and Algorithms (IJNPA), International Journal On Advances in Internet Technology (IJOAIT), International Journal on Internet and Distributed Computing Systems (IJIDCS), Complex Adaptive Systems Modeling (CASM), and

International Journal of Privacy and Health Information Management (IJPHIM), Multi Agent and GRID Systems (MAGS), Scalable Computing: Practice and Experience (SCPE), (former EAB member) International Journal of Interactive Technology and Smart Education (ITSE). He organized more than 40 special issues in well-know ISI/Scopus-indexed int'l Journals on hot research topics. He also organized many int'l workshops/conferences (more than 90) and was part of the IPC of many other conferences/workshops (more than 400).

- *International Scientific Collaborations and International Agreements.* He has got many collaborations with researchers of many foreign and national research Institutions and Industry: US Universities (UC Berkeley, UT Dallas, TAMU, WSU, NYU), European Universities (UPV, UCD, TUB, TU/e, Univ. of Reading, Univ. of Derby, Imperial College, UCL, Univ. of Gdansk and Warsaw, INRIA Lille, Institut Mines-Telecom Paris, InsightCenter-Ireland, Univ. of Oulu), Australian Institutions (QUT, Univ. of Melbourne, CSIRO), Chinese Universities (WHUT, HUST, SMU, DUT, and SIAT), Moroccan Universities (Rabat and Tetuan), other extra-EU universities (KSU, COMSATS, etc.), and Industry research centers (Telecom Italia, Clarity Center Ireland, Shimmer Research, Advanticsys, Telstra, etc.). He also promoted many international agreements (>30) with most of the aforementioned universities for student/research exchange and joint PhDs. Promoted agreements were signed with Wuhan University of Technology in November 2011 and with National Higher School of IT (ENSIAS), Mohamed 5 Souissi University, Morocco, in February 2012. The signature of an agreement with University of Chile was established in 2013. Extra-EU agreements were signed with Carleton University (Canada), New York University (USA) and SIAT (China), in 2018.

*Since January 2020 he is the Unical Rector's Delegate for International Actions involving EU countries and for Institutional Relations with China and Australia.*

- *PhD Mentorship.* He is currently in the committee of the Doctorate in Systems and Computer Engineering (University of Calabria, Italy), of which he is vice-coordinator, and in the committee of the Doctorate in Computer Science and Telecommunications (University of Catania, Italy). He has supervised/is supervising several PhD students on different research topics, including body sensor networks, IoT, agent-based computing, wireless sensor networks, and workflow management systems.
- *Entrepreneurship activity (2010-on-going).* He is the main co-founder (2010) and CEO of SenSysCal S.r.l., a spin-off of University of Calabria, whose mission is the development of innovative systems and services based on wireless sensor networks for health care, energy management and structural health. Moreover, he holds an Italian Patent on a cuff-less, portable, sensor-based system for measuring the human blood pressure 24/7, under movement and in real-time. He is more recently (2022) cofounder and vice-CEO of the spin-off Bigtech S.r.l, focused on big data, AI and IoT technologies
- *IEEE Fellowship.* In January 2022, he was elevated IEEE Fellow according to his important achievements in the area of IoT-driven wearable computing systems engineering.
- *Paper Awards.*
  - o His following paper has been awarded with the *2014 Andrew P. Sage Best IEEE SMC Transactions*: Fortino, G.; Giannantonio, R.; Gravina, R.; Kuryloski, P.; Jafari, R., "Enabling Effective Programming and Flexible Management of Efficient Body Sensor Network Applications," IEEE Transactions on Human-Machine Systems, vol. 43, no.1, pp.115-133, Jan. 2013. doi: 10.1109/TSMCC.2012.2215852.
  - o His paper "Using Cloud-assisted Body Area Networks to Track People Physical Activity in Mobility" was awarded with the *Best Paper Award of EAI/ACM Bodynets 2015*, Sydney, 2015.
  - o Best Paper at "2<sup>nd</sup> INTERNATIONAL CONFERENCE ON SUSTAINABLE TECHNOLOGIES FOR INDUSTRY 4.0 - STI 2020", A Real-time e-Health Data Collection System from On-board Vehicle Drivers in Smart City, *IEEE Computer Society*.
  - o Best Student Paper Award, "A Two-Level Integrated Approach for Assigning Trust Metrics to Internet of Things Devices", Evandro Macedo et al. *IoTBDS 2022*

More details can be found in the following sections.

## RESEARCH ACTIVITY

His research activity covers the areas of distributed computing, computer networks and software engineering by using an approach that is both methodological and experimental. Moreover, he has always tried to foster interdisciplinary applied research. Since 1997, he pursued many different research lines and themes.

Currently, he is mainly focused on:

- Wearable Computing, Body Sensor Networks and Mobile Health Systems: <https://projects.dimes.unical.it/spine-bok/>
  - o *Middleware for Body Sensor Networks (BSN)*
  - o *Cloud-assisted BSNs*
  - o *Multi-sensor data fusion algorithms in BSN.*
  - o *Big Data analysis for Mobile Health Systems*
- Wireless Sensor Networks
  - o *Middleware for wireless sensor and actuator networks (WSAN)*
  - o *Energy efficient protocols for wireless sensor networks (WSN) at Network and MAC layers*
  - o *Mobile agent platform for WSN*
  - o *Human-centered WSN*
- Internet of Things
  - o *Middleware for cooperating smart objects*
  - o *IoT Interoperability, Integration and Interconnection*
  - o *Autonomic and Cognitive IoT*
  - o *Networks of Aerial-Terrestrial Smart Drones*
  - o *Integrating Cyberphysical Smart Objects with Digital Libraries*
  - o *Social and Trust Mechanisms for IoT systems*
- Agent-based Computing and Engineering
  - o *Agent Oriented Software Engineering (AOSE)*
  - o *Agent-based Modeling and Simulation (ABMS)*
  - o *Multi-agent Foraging based on Stigmergy approach*
  - o *Interoperability of mobile agent systems*
  - o *Agent-based and Multi-Agent Applications*
- Content Distribution Networks
  - o *Synchronous collaborative streaming services supported by CDNs*
  - o *CDN architectures based on P2P, Grid and Agent technologies*
  - o *Multimedia broadcast systems for infrastructural vehicular area networks*
- Business Process Management Languages and Systems
  - o *Methodologies for risk-aware business process management*
  - o *Distributed workflow management systems*
  - o *BPM querying languages*
- Large-scale Distributed Computing
  - o *Distributed mechanisms for enabling federations of Cloud Systems*
  - o *Large-scale distributed data mining*
  - o *Epidemic protocols*
- Molecular Communications
  - o *Security in Nanonetworks*
  - o *Molecular data transmission mechanisms*

The aforementioned research also is developing and is maintaining the following open-source software frameworks:

- SPINE (Signal Processing In-Node Environment): <http://spine.deis.unical.it>
- BMF (Building Management Framework): <http://bmf.deis.unical.it>
- BodyCloud (Integration BSN and Cloud Computing): <http://bodycloud.dimes.unical.it>
- ACOSO (Agent-based Cooperating Smart Objects): <http://acoso.dimes.unical.it>
- AirGround (Coordination of Aerial/Terrestrial Smart Drones): <http://airground.dimes.unical.it>
- ELDATool (Event-driven Lightweight Distilled Statecharts Agents Tool): <http://eldameth.deis.unical.it>

Past research was focused on:

- Actor-based Computing and Systems: Programming Frameworks and Discrete Event Simulation.
- Distributed Multimedia Systems: Models, Frameworks, Methodologies and Applications.
- Real-Time Systems: Methodologies and Frameworks.
- Distributed Measurement Systems: Programming Paradigms and Applications.



## RESEARCH/TECHNICAL PROJECTS

He participated to national, international, and local research projects both as project member and project leader. In particular:

- Jan 2023-(three years). Horizon Europe RIA Project, to be funded by EC. Title of Project: MLSysOps – Machine Learning for Autonomic System Operation in the Heterogeneous Edge-Cloud Continuum. He is the Deputy Coordinator of the project. MLSysOps will achieve substantial research contributions in the realm of AI-based system adaptation across the cloud-edge continuum by introducing advanced methods and tools to enable optimal system management and application deployment.
- Jan 2023-(four years). POS Project (Health Operative Program) funded by Minister of Health. Title of the Project: RADIOAMICA (Open Platform for AI-driven Cooperative Radiomics/Radiogenomics). He is the national coordinator of project and responsible of the Unical research unit. The aim is the analysis, design, implementation and validation of a multi-institutional platform, named RADIOAMICA, for the distributed, cooperative and secure management of data and models (diagnostic, prognostic, and predictive) supporting therapeutic strategies in the oncologic context based on radiomics/radiogenomics.
- Jan 2023-(three years). PNRR project FAIR - Future AI Research (PE00000013), Spoke 9 - Green-aware AI, under the NRRP MUR program funded by the NextGenerationEU”. He is member. The objective is to develop disruptive radical technologies in the area of Green AI with specific applications in the domains of Internet of Vehicles and Internet of Wearables.
- Jan 2023-(three years). PNRR project Tech4U, under the NRRP MUR program funded by the NextGenerationEU”. He is member. He is member. Progetto MUR “Technologies for climate change adaptation and quality of life improvement” (Tech4You), PNRR, Missione 4 Istruzione e ricerca – Componente 2 – Investimento 1.5, finanziato dall’Unione europea – NextGenerationEU”. Budget totale progetto € 118.999.998,80. Budget. Università della Calabria € 36.036.674,00 (CUP H23C22000370006). Progetto Pilota “A platform for easy prototyping vertical solutions” (Spoke 6 - Goal 6.1 PP1).
- 2022-2025. PRIN Project (Basic Research funding scheme) funded by MIUR (Italian Ministry of Instruction, University and Research). Title of the Project: Common-Wears. He is the national coordinator of project and responsible of the Unical research unit. The aim is to create a new AI-based paradigm (formal models, middleware, validation tools) for the development of next-generation Wearable Computing Systems.
- 2021-2023. "Smart Cities Lab" Project - POR Calabria FESR FSE 2014-2020 (Action 1.3.2 "Support for the generation of innovative solutions to specific problems of social relevance, also through the use of open innovation environments such as Living Labs"). He is member. Objective: development and experimentation of an urban digital ecosystem, capable of support technological and organizational innovation processes for the construction of Integrated Platforms of Products and Services for Smart Cities.
- 2019-2023. PRIN Project (Basic Research funding scheme) funded by MIUR (Italian Ministry of Instruction, University and Research). Title of the Project: FluidWare. He is the responsible of the University of Calabria partner. The aim is to create a new AI-based paradigm (formal models, middleware, validation tools) for the development of next-generation IoT systems.
- 2019–2021. International research consultant, research project "Driver Distraction Management System in KSA Using Sensor-Cloud Technology " at King Saudi University (Scientific Responsible: Dr. Atif Mohammad Alamri) funded by National Plan for Science, Technology and Innovation (NPST) of Saudi Arabia.
- 2020-2021. CAS (Chinese Academy of Science) PIFI (President’s International Fellowship) for Visiting Scientist at SIAT (Shenzhen Institute for Advanced Technologies). Project name: “Body-Sensor-Network based real-time early warning mechanism for cardiovascular vulnerable plaque rupture event”.
- 2019. EPIC (<https://www.epicproject.eu/>) Expert Project for Research Exchange with the National University of Singapore (NUS) focused on "Wearable EEG-centred Body-Sensor-Network for the monitoring and recovery training of stroke people with deep learning".
- 2018-2020. Member of National Project MISE (Italian Ministry of Economic Development) – S2BDW: Smarter Solutions in the Big Data World. Research & Development Activity: analysis and design of a smart lighting system platform.
- Jun 2018 – May 2020. He participates in the PON COGITO funded by the Italian Government – MIUR. COGITO (A COGNitive dynamic sysTEM to allOw buildings to learn and adapt) aims at delivering a cognitive platform with associated

application to build “Cognitive Buildings” where ambient assisted livings at home and more generally in buildings can be automatically supported by cognitive environments and ecosystems of cooperating objects. Specifically, he will coordinate two activities: a) definition of hw/sw interfaces between wearable sensors and the overall platform; b) definition of new algorithms for multi-user activity recognition.

- *Jan 2016 - Dec 2018*. He is the deputy coordinator, STPM (Scientific and Technical Project Manager) and the scientific responsible of the University of Calabria of the EU H2020 INTER-IOT project (n. 687283) funded (7.3 MEuro) by the EU commission in the call ICT-30 "interconnected smart objects". INTER-IOT is aiming at the design, implementation and experimentation of an open cross-layer framework, an associated methodology and tools to enable voluntary interoperability among heterogeneous Internet of Things (IoT) platforms. The proposal will allow effective and efficient development of adaptive, smart IoT applications and services, atop different heterogeneous IoT platforms, spanning single and/or multiple application domains.
- *Sept 2017 – Sept 2019*. He is the responsible of Sensyscal participating to Hybrid Cloud project funded by Calabria Region in the framework of POR (Research and Development). The aim is to build a new framework to efficiently manage hybrid clouds for manipulating IoT-generated big data streams.
- *Oct 2016 – Oct 2019*. Erasmus+ Project: “Boosting Innovation in Curricula Development of IT Programs in Palestine (BIT-PAL)”. He is the scientific and didactic responsible of Unical. BIT-PAL project aims to develop and to improve the curricula of IT programs in the partner Palestinian universities participating in this project. This development will enhance the teaching methodologies among teaching of IT courses that will consequently influence the students' ability to use the IT tools not only after their graduation, but also during their study.
- *Jan 2008 - on-going*. He is the responsible of the open-source SPINE project (<http://spine.deis.unical.it/>), which was established by Telecom Italia Labs (Italy) with support from University of Berkeley (California), University of Dallas (Texas) and the Pirelli/Telecom WSN laboratory (Berkeley). From 2008 to 2012, Prof. Fortino received three research grants (75 KEuros) from Telecom Italia to develop the SPINE project.
- *Jan 2012 – on-going*. He participates to the “Polo della Salute Calabria” (Calabria Health-Care Research Regional Institution) as responsible of the SenSys laboratory providing services and technology on Body Sensor Networks.
- *May 2015 – Apr. 2017*. International research consultant, research project "Seamless Integration of Body Sensor Networks with Cloud Computing for Pervasive Healthcare" at King Saudi University (Scientific Responsible: Dr. M.M. Hassan) funded by National Plan for Science, Technology and Innovation (NPST) of Saudi Arabia (code: 12-INF2885-02).
- *Jul 2014 - Dec 2015*. He was the UNICAL responsible of workpackage 4 of the SmartDistr project, funded by the Calabria region. The project aim is to develop a distributed platforms and related tools for smart distribution and logistics. Specifically, WP4 focuses on the design, implementation and testing of an agent-based middleware for mobile computing supporting smart transportation.
- *Mar 2014 - Dec 2015*. He is the UNICAL responsible of the Sensys lab in the LocubiRehab Project, funded by the Calabria region. The project aims at developing innovative health-care solutions for rehabilitation based on robots and body sensor networks. In particular, his group focuses on the development of a rehabilitation solution based on wearable sensors and cloud computing.
- *Jan 2013 – Dec 2015*. He is UNICAL responsible of the bilateral Italy-China research project for mobility, entitled “Smart Personal Mobility Systems for Human Disabilities in Future Smart Cities”. The Chinese group is led by Prof. Wenfeng Li, Wuhan University of Technology. The main aim is the development of a distributed hw/sw platform for supporting disabled people in mobility.
- *Jan 2013 – July 2015*. He was the DIMES/UNICAL responsible of activity 2.4.4 on “Discovery of Smart Objects for Tourism” in the INMOTO project funded by the Italian Government. The main aim of the research activity is to define a suite for the management of physical/logical smart objects in the Tourism application domain.
- *May 2013 – May 2015*. He was the UNICAL responsible of the Social Innovation AD-PERSONAS project funded by the Italian Government. The main aim is to define a cloud-based infrastructure for body area networks management in human-centered domains such as (mobile) e-Health, e-fitness/sport, e-Sociality, e-Emergency.
- *Nov 2013 – Apr 2015*. Responsible of the ARUE Project “BodyCloud: Methods and Architecture for the Integration of Cloud Computing and Body Sensor Networks”. Funding for postdoc grants.
- *Jan 2013 – Dec 2014*. He was the DIMES Scientific Responsible of four joint didactics/research projects in the framework of "Messaggeri della Conoscenza" funded by the Italian Government. The projects have a twofold goal: (i) the delivery

of advanced scientific knowledge to master-level students in Computer/Telco Engineering through courses tenured by foreign professors at the DIMES/UNICAL and (ii) research activity supervised by Prof. Fortino and carried out by selected students at the laboratories of the foreign professors.

- *Apr 2012 – October 2015.* He is UNICAL co-responsible (Project Technical Coordinator) of the ENIAC E2SG (Energy to Smart Grid) project funded by EU Commission. Specifically, he coordinates the Task 2.2b of WP2 (Grid-sensing/metering & communication) on the design and implementation of an Intra-Grid Management Framework (IGMF) based on Wireless Sensor and Actuator Networks. E2SG took the ECSEL Award.
- *Jan 2012 – Jul 2015.* He participated in the PON “Ambiente” SILA Project (Research Project on Environment), funded by the Italian Government. Specifically, he supported the coordination of the LIRA laboratory, supervising the development of services based on wireless sensor networks and cloud computing.
- *Jan 2011 – Dec 2013.* He participated in the TETRIS Project – TETRA Innovative Open Source Services, funded by the Italian Government (PON 01-00451). Specifically, he coordinated the WP4 on the development of an intelligent middleware for programming smart objects.
- *Dec 2009 - Nov 2012.* As associate member and UNICAL responsible he participated to the CONET project, the Cooperating Objects Network of Excellence, which is a EU-funded project under ICT, FP7. The CONET project aims at building a strong community in the area of Cooperating Objects (the Internet of Things), including research, public sector and industry partners from the areas of embedded systems, pervasive computing and wireless sensor networks.
- *Jan 2010 - Dec 2011.* He participated to the *OpenKnowTech Project* funded by Italian Government.
- *Jan 2008 - Jan 2010.* He participated to the *PROMIS Project* funded by Italian Government.
- *2011.* Responsible of Unical Project (ex-60%) on “*Methodologies, tools, and systems for continuous and real-time monitoring of assisted livings based on wearable computers*”.
- *2010.* Responsible of Unical Project (ex-60%) “*Novel techniques for programming wireless sensor networks for building monitoring*”.
- *2009.* Responsible of Unical Project (ex-60%) “*Task-oriented paradigms and architectures for programming wireless sensor networks*”.
- *2008.* Responsible of Unical Project (ex-60%) “*Methods based on the Model-driven Development paradigm for Wireless Sensor Networks*”
- *Jan 2002 - Sep 2004.* He was responsible of a research project (IT-592) with the Universidad Politecnica de Valencia (Spain) in the framework of the "Italy/Spain Integrated Actions". The project was funded by the MIUR (the Italian Ministry of University and Research). The Spanish research group with which the collaboration was established was coordinated by Prof. Carlos E. Palau of the telecommunication department of the Universidad Politecnica de Valencia. The research project, entitled "Development of a cooperative and content-enriched media on-demand system for e-Learning and e-Entertainment on the Internet" was aimed at defining and implementing a cooperative media on-demand system, and related application-level protocols, based on content distribution networks (CDN), named COMODIN (Cooperative Media On-Demand on the INternet).
- *Sep 2003 - Sep 2004.* He was responsible of a research project funded in the framework of the initiative "Research Projects for Young Researchers". The project, entitled "Development of a P2P infrastructure based on mobile agents for next-generation Internet applications" was aimed at defining and prototyping a software infrastructure whose nodes are organized according to a P2P model whereas the distributed computing is carried out by mobile agents. The objective of the infrastructure is to support novel, dynamic and self-organizing applications and services such as the Virtual Private Web.
- *Jun 2004 - Dec 2005.* He was the contact point for DEIS-Unical (member 091) of the European co-ordination action AgentLink III which was aimed at supporting and promoting research activities on agent-based computing. In particular, his research activity was carried out within the TFG (Technical Forum Group) AOSE (Agent Oriented Software Engineering) which was aimed at defining agent-oriented methodologies on the basis of a generalized meta-model of multi-agent system obtained through the integration of method fragments coming from available agent-oriented methodologies.
- *Jan 2003 - Dec 2005.* He participated as member to the research project "M.ENTE: Management of Integrated Enterprise" (PROGETTO PON: N° 12970/AGROINDUSTRIA/PON), funded by the MIUR. The project was aimed at analyzing, designing, developing and experimenting with a pervasive system supporting remote control and management of

productive, organizational, and managerial processes of enterprises operating in the agricultural area of Calabria. In particular, his research activity was focused on the design and implementation of an agent-based workflow management systems (WFMS) supporting the system coordination.

- *Mar 1999 - Jul 1999.* He participated as member to the research projects "Priority Encoding Transmission (PET)" funded by the National Science Foundation (NSF) at the ICSI (International Computer Science Institute), Berkeley (CA), USA. He collaborated with the project responsible and leader of the network group Dr. Andres Albanese to the writing of the final technical report of the project as well as to some proposals of extensions of the PET-based multimedia tools developed in previous phases of the project.
- *Jan 1998 - Dec 1999.* He participated as member of the DEIS Research Unit (UR-DEIS) to the research project (MURST ex-40%) "Metodologie di progetto di sistemi ad alte prestazioni per applicazioni distribuite (MOSAICO) - Design methodologies of high-performance systems for distributed applications". The project coordinator was Prof. Luciano Lenzini whereas the responsible of the UR-DEIS was Prof. Libero Nigro. His research activity was focused within the following research theme: "Actor Systems for real-time and simulation in distributed systems".
- *Jan 2000 - Dec 2001.* He participated as member of the DEIS Operating Unit to the research project "Development of virtual laboratories based on actors and on the Internet multimedia layer" coordinated by the Prof. Stefano Caselli (national coordinator) and Prof. L. Nigro (local coordinator) in the context of the projects CNR-Agenzia2000: CNRC002FE3\_004, METODOLOGIE E STRUMENTI PER LABORATORI VIRTUALI DISTRIBUITI - Linguaggi e tecnologie multimediali e realtà virtuali.
- *1998-2007,* Giancarlo Fortino has always participated as member of DEIS research units to annual/biennial research projects (ex-60% MURST) funded by the University of Calabria.

#### **RESEARCH PERIODS AND POSITIONS ABROAD\***

The most significant research periods (>1 month) he spent in foreign scientific institutions are reported in the following by briefly describing the research activities carried out.

- *Jan 2022-Dec 2022,* He is **High-end Foreign Expert** of Henan Province with sponsorship from Nanyang Institute of Technology. He will virtually work with the dept. of NIT, giving lectures, supervising students and producing research papers.
- *Jan 2019- Dec 2021,* He was CAS (Chinese Academy of Science) PIFI (President's International Fellowship) **Visiting Scientist** at SIAT (Shenzhen Institute for Advanced Technologies). He will spend 1-month a year at SIAT to give talks/seminars, supervise PhD students and carry out joint research on the approved project.
- *Nov 2016-on-going.* He is **High-end Expert** at HUST (Huazhong University of Science and Technology), Wuhan, China. He will spend 1-month a year at Huazhong University of Science and Technology to give courses, talks/seminars, supervise PhD students and carry out joint research.
- *May 2015-May 2018.* He is **Adjunct Professor** of Wuhan University of Technology in the framework of *High-End Foreign Experts in China*. He will spend 1-month a year at Wuhan University of Technology to give courses, talks/seminars, supervise PhD students and carry out joint research.
- *May 2012- on-going.* He was **Guest Professor** of Wuhan University of Technology. During this period he spent more than one month (two weeks a year) at Wuhan University of Technology to give talks/seminars, supervise PhD students and carry out joint research with the Prof. Li's group.
- *Jul 2009 – Oct 2009.* He was **Visiting Professor** in the Business Process Management (BPM) group of the Faculty of Science and Technology of the Queensland University of Technology (QUT), Brisbane, Australia. In particular, he contributed to launch a project on the risk management in BPM.
- *Jan 2003-Sep 2004.* During this period he spent almost two months at the Universidad Politecnica de Valencia in the context of the COMODIN project (see *Projects* section). In particular, he mainly focused on the management of the project together with Prof. Carlos E. Palau.
- *Feb 1999-Jul 1999.* He was **Visiting Researcher** (supported by a grant) at the ICSI, Berkeley (CA), USA, working in the NSF project PET (Priority Encoding Transmission). In particular, his research activity was mainly focused on the study and the application of the PET technique for the development of robust media streaming systems over MBone.
- *Mar 1997-Nov 1997.* He was **Research Scholar** in the Network Group of the International Computer Science Institute (ICSI), Berkeley (CA), USA. In particular, his research activity was mainly focused on the definition of application-level protocols and innovative architectures for the transmission, control and management of multimedia streams over Internet MBone.

---

\* Only overall periods equal or greater than one month are reported.

## SCIENTIFIC COLLABORATIONS

He established the following scientific collaborations with Italian and foreign research institutions.

- From 1997 to 1999, he collaborated with Dr. Andres Albanese (leader of the Network Group at the International Computer Science Institute, Berkeley, CA, USA) on research activities related to distributed multimedia systems.
- Since 2001, he collaborates with Prof. Carlos E. Palau (Universidad Politecnica de Valencia, Spain) on research activities related to CDNs, multimedia systems, WSN and currently IoT.
- From 2002 to 2006, he collaborated with Dr. Eugenio Zimeo (Università del Sannio, Italy) on research activities related to agent-based distributed computing and agent-oriented software engineering.
- Since 2002, he collaborates with Dr. Carlo Mastroianni (ICAR/CNR, Cosenza, Italy) on research activities related to cooperative playback control protocols and media streaming.
- Since 2003, he collaborates with Dr. Massimo Cossentino (ICAR/CNR, Palermo, Italy) on research activities related to agent-oriented software engineering, also in the context of the FIPA Methodology TC and AOSE TFG of AgentLink III.
- Since 2006, he collaborates with Dr. Giuseppe di Fatta (Associate professor and Chair of Computer Science Dept. at the University of Reading, UK) on research activities related to distributed systems and multi-agent systems for distributed data mining and computing.
- From 2007 to 2012, he collaborated with Dr. Marco Sgroi (director of the Telecom/Pirelli WSN Lab, Berkeley, CA, USA) on research activities related to wireless sensor networks focusing on the activity monitoring of individuals for health care.
- Since 2008, he collaborates with Dr. Fabio Luigi Bellifemine (director of the WSN research area of Telecom Italia Labs, Italy) and Roberta Giannantonio (Responsible of SPINE) on the SPINE project.
- Since 2008, he collaborates with TDGroup S.p.A. on research & development themes focused on wireless (body) sensor networks and related technologies.
- Since 2009, he collaborates with Prof. Adam Wolisz, leader of the network group at the Technical University of Berlin, on emotional recognition through signal processing in-node frameworks for body sensor networks.
- Since 2009, he collaborates with Dr. Antonio Ruzzelli, lecturer at the University College of Dublin, on frameworks for IP-open wireless sensor networks with applications for monitoring building energy.
- Since 2009, he collaborates with Dr. Marcello La Rosa, senior lecturer at the Queensland University of Technology (Brisbane, Australia), on risk mitigation in business processes in the context of workflow management systems.
- Since 2009, he collaborates with Prof. P. Manzoni, associate professor at Universidad Politecnica de Valencia, on the definition of techniques for the delivery of contents in Vehicular Area Networks.
- Since 2010, he collaborates with Dr. Marcin Paprzicky and Dr. Maria Ganzha, System Research Institute Polish Academy of Sciences, Poland, on multi-agent systems.
- Since 2010, he collaborates with Dr. Muaz Niazi, professor at COMSATS Institute of IT, Islamabad Pakistan, on agent-based modeling and simulation.
- Since 2010, he collaborates with Dr. Roozbeh Jafari, Assistant Professor at UT Dallas, USA, on Wireless Body Sensor Networks.
- Since 2011, he collaborates with Prof. A. Liotta, professor at Technical University of Eindhoven, on autonomic systems.
- Since 2011, he collaborates Dr. Yiannis Andreopoulos, University College London (UK), on definition, analysis and implementation of innovative MAC-level communication protocols in wireless sensor networks.
- Since 2011, he collaborates with Prof. Wenfeng Li, professor at Wuhan University of Technology (China), on collaborative wireless sensor networks and Internet of Things.
- Since 2011, he collaborates with Prof. Mohammad Essaaidi, professor at University of Abdelmalek Essaïdi (Tetuan) and Director of National Higher School of IT (ENSIAS) – Rabat, Morocco, on wireless sensor networks technologies.
- Since 2011, he collaborates with Prof. Costin Badica, University of Craiova (Romania), on multi-agent systems.
- Since 2012, he collaborates with Prof. Sergio Ochoa, University of Chile (Chile), on the integration of mobile computing and body sensor networks.
- Since 2013, he collaborates with Prof. Jun Suzuki, University of Massachusetts (Boston, USA), on the integration of CyberPhysical Systems and Cloud Computing.
- Since 2013, he collaborates with Prof. Athanasios V. Vasilakos, Dept. of Computer and Telecommunications Engineering, University of Western Macedonia, Greece, on the integration of Body Area Networks and Cloud Computing, and molecular communications.
- Since 2014, he collaborates with Dr. Hassan Ghasemzadeh, Dept. of Computer Science and Electrical Engineering, Washington State University, Pullman, Seattle, USA, on the Multi-sensor data fusion and pattern recognition algorithms in Body Sensor Networks.
- Since 2015, he collaborates with Dr. Mohammad Mehedi Hassan, Information Systems Department, College of Computer and Information Sciences, King Saud University, Riyadh, KSA, on Cloud Computing and IoT Technologies.

- Since 2015, he collaborates with Dr. Valeria Loscrì, INRIA Lille-Nord Europe, FUN Research Lab, France, on Body Area NanoNetworks.
- Since 2015, he collaborates with Prof. Min Chen, EPIC group, Huazhong University of Science and Technology (HUST), Wuhan, China, on the integration of Body Area Networks, Emotion Recognition, Cloud Computing, and Big Data.
- 2015-, Imperial College of London (UK), Prof. Guang-Zhong Yang, Body Sensor Networks and Affective Computing
- Since 2016, he collaborates with Prof. Zhelong Wang, Dalian University of Technology (DUT), Dalian, China, on activity recognition algorithms for Body Area Networks.
- Since 2016, he collaborates with Dr. Yin Zhang, Zhongnan University of Economics and Law (China), on emotion-aware systems.
- Since 2016, he collaborates with Prof. Mengchu Zhou, New Jersey Institute of Technology (USA), on next-generation Internet of Things services modeling and validation.
- 2017-, University of Bologna (Cesena), Prof. Mirko Viroli, Novel Paradigms for IoT Modeling and Simulation
- 2017-, Shanghai Maritime University (China), Dr. Xiuwen Fu, Prof. Yongsheng Yang, Energy efficient algorithms for Wireless Sensor Networks and IoT communications
- Since 2017, University Mediterranea of Reggio Calabria (Italy), Prof. Domenico Rosaci and Prof. Giuseppe Sarnè, Trust Methods in IoT.
- 2017-, Universidade Federal do Rio de Janeiro (Brazil), Prof. Flavia Delicato, Dr. Claudio Miceli de Farias, Multi-sensor Fusion in Wireless Sensor Networks and IoT
- 2017-, Shenzhen Institutes of Advanced Technology, Shenzhen, (China), Prof. Ye Li, Wearable networked devices and Big Data Healthcare
- 2018-, New York University (USA), Prof. Masoud Ghandehari, Urban Computing and Science
- 2018-, National University of Singapore (Singapore), Dr. Hongliang Ren, Wearable Medical Sensors and Computing
- 2019-, Huazhong Agriculture University (Wuhan, China), Prof. C. Huang and Dr. Lin Yang, IoT technologies for Smart Agriculture

## RESEARCH-ORIENTED PROFESSIONAL ACTIVITY

He is founder and editor-in-chief of the Springer Book Series on “Internet of Things: Technology, Communications and Computing”. *Scopus indexed*.

He is founder and series editor of the IEEE Press Book Series on “Human-Machine Systems” \*\*\*new series\*\*\*.

He is co-founder and co-editor-in-chief (EiC: Dr. Kelvin Wong) of the Springer Journal on Advanced Bionics, Biokinetics and Biocybernetics.

He is co-Editor-in-Chief (EiC: Prof. Min Chen) of Big Data and Cognitive Computing, MDPI (<http://www.mdpi.com/journal/BDCC>)

## Member of Advisory Editorial Board of International Journal

1. IEEE Transactions on Affective Computing (TAFFC-CS); *ISI indexed*.
2. IEEE Transactions on Human-Machine Systems (THMS); *ISI indexed*.
3. IEEE IoT Journal; *ISI indexed*.
4. IEEE Sensors Journal; *ISI indexed*.
5. IEEE Journal on Biomedical and Health Informatics (*starting 2021*); *ISI indexed*.
6. IEEE Access; *ISI indexed*.
7. IEEE SMC Magazine; *ISI indexed. (ending 2022)*
8. IEEE Open Access Journal of Engineering in Medicine and Biology (OJEMB)
9. IEEE Open Journal of the Communications Society (OJ-COMS) (Editor at-large area "Big Data and Machine Learning for Communications")
10. IEEE Transactions on Artificial Intelligence
11. IEEE Transactions on Automation Science and Engineering (Senior Editor)
12. Information Fusion (INFFUS), Elsevier; *ISI indexed. Sensor Fusion Area Editor*.
13. International Journal of Networks and Computer Applications (JNCA), Elsevier; *ISI indexed. (ending 2022)*
14. Engineering Applications of Artificial Intelligence (EEAI), Elsevier; *ISI indexed*.
15. Sensors, MPDI: Section Sensor Networks; *ISI indexed*.

16. International Journal of Distributed Sensor Networks (IJDSN), SAGE Publishing; *ISI indexed*.
17. Applied Sciences, MDPI: Section "Computer Science and Electrical Engineering"; *ISI indexed*.
18. Multi Agent and GRID Systems (MAGS), IOS Press; *Scopus indexed*.
19. Smart Health, Elsevier; Scopus indexed. (since 2016).
20. Cognitive Robotics, KeAi+Elsevier (since 2020).
21. Scalable Computing: Practice and Experience (SCPE), Scientific International Journal for Parallel and Distributed Computing - ISSN: 1895-1767; *Scopus indexed*.
22. IET Collaborative Intelligent Manufacturing
23. Advances in Distributed Computing and Artificial Intelligence Journal (ADCAIJ), ISSN: 2255-2863 <http://adcaij.usal.es>.
24. International Journal of Network Protocols and Algorithms, Macrothink Institute (ISSN 1943-3581);
25. International Journal On Advances in Internet Technology (IJOAIT), IARIA;
26. International Journal on Internet and Distributed Computing Systems (IJDCS) – ISSN: 2219-1887 (Online Version); 2219-1127 (Print Version);
27. Complex Adaptive Systems Modeling (CASM), Springer; Pre-*ISI* and *Scopus indexed*.
28. International Journal of Interactive Technology and Smart Education (ITSE), Emerald Publishing; (2003-2013)
29. International Journal of Privacy and Health Information Management (IJPHIM), IGI Global (*until 2015*).

#### Co-editor of special issues

1. Special Issue on “Artificial Intelligence Enabled Software Defined Networks for Intelligent Hybrid Information Processing and Communication in Multimedia Applications”, in *Journal Annals of Telecommunications*, Dr. Gwanggil Jeon (Leading Guest Editor), Dr. Shiping Wen (Guest Editor), Dr. Abdellah Chehri (Guest Editor), and Prof. Giancarlo Fortino (Guest Editor).
2. Special Issue on “Advances in Internet of Things for Smart Health and Emotion Care”, in *ACM Transactions on Internet Technology (TOIT)*. Guest Editors: Gwanggil Jeon, Incheon National University, Korea, [gjeon@inu.ac.kr](mailto:gjeon@inu.ac.kr); Shiping Wen, University of Technology Sydney, Australia, [Shiping.Wen@uts.edu.au](mailto:Shiping.Wen@uts.edu.au); Giancarlo Fortino, University of Calabria, Italy, [giancarlo.fortino@unical.it](mailto:giancarlo.fortino@unical.it) [https://dl.acm.org/pb-assets/static\\_journal\\_pages/toit/pdf/ACM-TOIT-CFP-AdvIoTSmartHealthEmotion-1673725810530.pdf](https://dl.acm.org/pb-assets/static_journal_pages/toit/pdf/ACM-TOIT-CFP-AdvIoTSmartHealthEmotion-1673725810530.pdf)
3. Special Issue on “Deep Learning for Wearable Signal Analysis in Cognitive Healthcare (DL-WSACH)”, in *IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS (J-BHI)*. Guest Editors: Dr. Gwanggil Jeon, Incheon National University, South Korea, [gjeon@inu.ac.kr](mailto:gjeon@inu.ac.kr), Dr. Shiping Wen, University of Technology Sydney, Australia, [Shiping.Wen@uts.edu.au](mailto:Shiping.Wen@uts.edu.au), Dr. Abdellah Chehri, Royal Military College of Canada, Kingston, Canada, [chehri@rmc.ca](mailto:chehri@rmc.ca), Dr. Giancarlo Fortino, University of Calabria, Italy, [giancarlo.fortino@unical.it](mailto:giancarlo.fortino@unical.it)
4. Special Issue on “Security of Emerging Virtual Environments: Metaverse and Extended Reality”, in *Ad-Hoc Networks*. Guest Editors: Moayad Aloqaily, MBZUAI, UAE; Ouns Bouachir, ZU, UAE; Lewis Tseng, Boston College, USA; Giancarlo Fortino, University of Calabria (Unical), Italy.
5. Special Issue on “Recent Advances in Resource Management in Mobile, Wireless and Ad-Hoc Networks”, in *Wireless Networks*. GEs: Gwanggil Jeon, Shiping Wen, Abdellah Chehri, Giancarlo Fortino. <https://www.springer.com/journal/11276/updates/23852302>
6. Special topics on “Social Computing and Social Network Analysis” Guest Editors: Prof. Dr. Carson K. Leung (Canada), Dr. Fei Hao (China), Prof. Dr. Giancarlo Fortino (Italy), Dr. Xiaokang Zhou (Japan), [https://www.mdpi.com/topics/Social\\_Computing\\_Network\\_Analysis](https://www.mdpi.com/topics/Social_Computing_Network_Analysis).
7. Special Issue on “Artificial Intelligence and Internet of Medical Things (AI-IoMT)”, in *IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS (J-BHI)*. Guest Editors: Dr. Abdellah Chehri, Université du Québec à Chicoutimi, Canada, [achehri@uqac.ca](mailto:achehri@uqac.ca); Dr. Xiaochun Cheng, Middlesex University London, UK, [X.Cheng@mdx.ac.uk](mailto:X.Cheng@mdx.ac.uk); Dr. Giancarlo Fortino, University of Calabria, Italy, [giancarlo.fortino@unical.it](mailto:giancarlo.fortino@unical.it); Dr. Gwanggil Jeon, Incheon National University, South Korea, [gjeon@inu.ac.kr](mailto:gjeon@inu.ac.kr). <https://www.embs.org/jbhi/wp-content/uploads/sites/18/2022/08/Updated-CFP-for-IEEE-JBHI-AI-IoMT.pdf>
8. Special Issue on Distributed Learning and Blockchain Enabled Infrastructures for Next Generation of Big Data Driven Cyber-Physical Systems, in *Journal of Systems Architecture*. Guest Editors: Dr. Xiaokang Zhou (Managing Guest Editor), Associate Professor Faculty of Data Science Shiga University, Japan Email: [zhou@biwako.shiga-u.ac.jp](mailto:zhou@biwako.shiga-u.ac.jp) Dr. Giancarlo Fortino, Professor, IEEE Fellow Department of Informatics, Modeling, Electronics, and Systems University of Calabria, Italy Email: [giancarlo.fortino@unical.it](mailto:giancarlo.fortino@unical.it) Dr. Alireza Jolfaei, Associate Professor College of Science and Engineering Flinders University, Australia Email: [alireza.jolfaei@flinders.edu.au](mailto:alireza.jolfaei@flinders.edu.au) Dr. Lianyong Qi, Professor School of Computer Science Qufu Normal University, China Email: [lianyongqi@qfnu.edu.cn](mailto:lianyongqi@qfnu.edu.cn) Dr. Mohammad Hammoudeh, Professor Department of Computing and Mathematics Manchester Metropolitan University, UK Email: [m.hammoudeh@mmu.ac.uk](mailto:m.hammoudeh@mmu.ac.uk); <https://www.sciencedirect.com/journal/journal-of-systems-architecture/about/forthcoming-special-issues>
9. Special Issue on Artificial Intelligence for Process Mining, in *Engineering Applications of Artificial Intelligence*. Guest

Editors: Massimiliano de Leoni, Wil van der Aalst, Andrea Burattin, Giancarlo Fortino.  
<https://www.journals.elsevier.com/engineering-applications-of-artificial-intelligence/forthcoming-special-issues/artificial-intelligence-for-process-mining>

10. Special Issue on Dark side of the Socio-Cyber World: Media Manipulation, Fake News, and Misinformation, in *IEEE Transactions on Computational Social Systems*. Guest Editors: Dr. Gwanggil Jeon (Corresponding Editor), Incheon National University, South Korea, [gjeon@inu.ac.kr](mailto:gjeon@inu.ac.kr); Dr. Xiaochun Cheng, Middlesex University London, UK, [X.Cheng@mdx.ac.uk](mailto:X.Cheng@mdx.ac.uk); Dr. Abdellah Chehri, Université du Québec à Chicoutimi, Canada, [achehri@uqac.ca](mailto:achehri@uqac.ca); Dr. Giancarlo Fortino, University of Calabria, Italy [giancarlo.fortino@unical.it](mailto:giancarlo.fortino@unical.it); Dr. Marcelo Albertini, University of Uberlandia, Brazil [albertini@ufu.br](mailto:albertini@ufu.br); Dr. Shiping Wen, University of Sydney Technology, Australia [shiping.wen@uts.edu.au](mailto:shiping.wen@uts.edu.au).
11. Special Issue on Physics-Informed Machine Learning, in *IEEE Transactions on Artificial Intelligence*. Guest Editors: Francesco Piccialli - University of Naples Federico II, Italy, Email: [francesco.piccialli@unina.it](mailto:francesco.piccialli@unina.it), Maizar Raissi - University of Colorado Boulder, [maziar.raissi@colorado.edu](mailto:maziar.raissi@colorado.edu), Felipe A.C. Viana - University of Central Florida - [viana@ucf.edu](mailto:viana@ucf.edu), Giancarlo Fortino - University of Calabria, Italy, Email: [giancarlo.fortino@unical.it](mailto:giancarlo.fortino@unical.it), Huimin LU - Kyushu Institute of Technology, Japan, Email: [dr.huimin.lu@ieee.org](mailto:dr.huimin.lu@ieee.org), Amir Hussain - School of Computing, Edinburgh Napier University, Scotland.
12. Special Issue on Distributed Ledger Technology (DLT) for Beyond 5G Systems, in *ACM Transactions on Distributed Ledger Technologies: Research and Practice*. Guest Editors: Prof. Andrei Gurtov, Linköping University, Sweden [andrei.gurtov@liu.se](mailto:andrei.gurtov@liu.se), Prof. Giancarlo Fortino, University of Calabria, Italy [giancarlo.fortino@unical.it](mailto:giancarlo.fortino@unical.it), Prof. Salil Kanhere, University of New South Wales, Australia [salil.kanhere@unsw.edu.au](mailto:salil.kanhere@unsw.edu.au), Asst. Prof. Madhusanka Liyanage, University College Dublin, Ireland [madhusanka@ucd.ie](mailto:madhusanka@ucd.ie). [https://dl.acm.org/pb-assets/static\\_journal\\_pages/dlt/pdf/DLT\\_SI\\_Beyond5G-1646428730413.pdf](https://dl.acm.org/pb-assets/static_journal_pages/dlt/pdf/DLT_SI_Beyond5G-1646428730413.pdf)
13. "Special Issue on Behavioral Modeling, Learning, and Adaptation in Cyber-physical Social Intelligence, in *IEEE Transactions on Computational Social Systems*, GEs: Ying (Gina) Tang, Rowan University, USA, Jiacun Wang, Monmouth University, USA, Hui Yu, University of Portsmouth, UK, Amir Hussain, Edinburgh Napier University, UK, Giancarlo Fortino, University of Calabria, Italy, Fei-Yue Wang, Chinese Academy of Sciences, China.
14. "Featured Research from the 2nd International Conference on Human-Machine Systems", in *IEEE Transactions on Human-Machine Systems*. GEs: David Kaber, University of Florida, USA, [dkaber@ufl.edu](mailto:dkaber@ufl.edu), David Mendonca, Rensselaer Polytechnic Institute, USA, [mendod@rpi.edu](mailto:mendod@rpi.edu) [https://www.ichms2021.de/home/\\_about/SI\\_ICHMS\\_CFP\\_013121.pdf](https://www.ichms2021.de/home/_about/SI_ICHMS_CFP_013121.pdf)
15. "Deep Learning-Empowered Big Data Analytics in Biomedical Applications and Digital Healthcare", in *IEEE/ACM Transactions on Computational Biology and Bioinformatics*. GEs: Xiaokang Zhou, Shiga University, Japan; Carson Leung, University of Manitoba, Canada; Kevin Wang, The University of Auckland, New Zealand, <https://www.computer.org/digital-library/journals/tb/call-for-papers-special-issue-on-deep-learning-empowered-big-data-analytics-in-biomedical-applications-and-digital-healthcare>
16. "Distributed Intelligence at the Edge for the Future Internet of Things" in the Journal of Parallel and Distributed Computing, GEs: Andrzej Goscinski, Gautam Srivastava, Flavia Delicato, Anna Kobusinska. <https://www.journals.elsevier.com/journal-of-parallel-and-distributed-computing/call-for-papers/distributed-intelligence-at-the-edge-for-the-future>
17. "Deep learning and big data analytics for medical e-diagnosis" in the Journal of Neural Computing and Applications, GEs: Fong Simon, Ghista Dhanjoo, Piccialli Francesco. <https://www.springer.com/journal/521/updates/18560458>
18. "Methods and Infrastructures for Data Mining at the Edge of Internet of Things" in the IEEE IoT Journal, GEs: Min Chen, Francisco Herrera and Rajkumar Buyya. [https://iee-iotj.org/wp-content/uploads/2020/05/SI\\_IOTJ\\_IoTEdgeMining\\_CFP.pdf](https://iee-iotj.org/wp-content/uploads/2020/05/SI_IOTJ_IoTEdgeMining_CFP.pdf)
19. "Advanced Networking Technologies in the Battle Against the Outbreak of Epidemic Diseases" in *IEEE Transactions on Network Science and Engineering*, GEs: Yin Zhang (Lead), University of Electronic Science and Technology of China, China; Ala Al-Fuqaha, Western Michigan University, USA; Limei Peng, Kyungpook National University, South Korea; Iztok Humar, University of Ljubljana, Slovenia; Hua Wang, Victoria University, Australia: <https://www.comsoc.org/publications/journals/ieee-tNSE/cfp/advanced-networking-technologies-battle-against-outbreak>
20. "AI-driven Informatics, Sensing, Imaging and Big Data Analytics for Fighting the COVID-19 Pandemic" *IEEE Journal of Biomedical and Health Informatics*, GEs: Amir Amini (University of Louisville, USA), Wei Chen (Fudan University, China), Ye Li (SIAT, China), Yi Pan (Georgia State University, USA), and May Dongmei Wang (Georgia Institute of Technology & Emory University, USA): <https://www.embs.org/ai-driven-informatics-sensing-imaging-and-big-data-analytics-for-fighting-the-covid-19-pandemic>
21. "Blockchain for Internet-of-Things and Cyber-Physical Systems: Emerging Trends, Issues and Challenges" *IEEE/CAA Journal of Automatica Sinica*, Guest Editors: Mohammad Mehedi Hassan, King Saud University, Riyadh, Saudi Arabia ([mmhassan@ksu.edu.sa](mailto:mmhassan@ksu.edu.sa)), Laurence T. Yang, St. Francis Xavier University, Canada ([ltyang@stfx.ca](mailto:ltyang@stfx.ca)), Hai Jiang, Arkansas State University, USA ([hjiang@astate.edu](mailto:hjiang@astate.edu)), Kim-Kwang Raymond Choo, The university of Texas at San



- Antonio, USA ([raymond.choo@utsa.edu](mailto:raymond.choo@utsa.edu)), Jun Jason Zhang, Wuhan University, Wuhan, China ([jun.zhang.ee@whu.edu.cn](mailto:jun.zhang.ee@whu.edu.cn)), Fei-Yue Wang, Institute of Automation Chinese Academy of Sciences, Beijing, China ([feiyue@ieee.org](mailto:feiyue@ieee.org))
22. "Cognitive Robotics on 5G/6G Networks," *ACM Transactions on Internet Technology*, GEs: Prof. Huimin Lu, Prof. Liao Wu, Prof. Schahram Dustdar.
  23. "Learning-based Edge Computing Services", *IEEE Network Magazine*, GEs: Prof. Min Chen, Prof. Haiyang Wang, Prof. Kai Hwang, Prof. Giancarlo Fortino, Dr. Jeungeun Song, Prof. Limei Peng, Prof. Joze Guna.
  24. "Big Data and Cognitive Computing: Feature Papers 2020", *Big Data and Cognitive Computing* (ISSN 2504-2289). GEs: Min Chen.
  25. "Resilient Control in Large-Scale Networked Cyber-Physical Systems", *IEEE/CAA Journal of Automatica Sinica*. Guest Editors: Xianghui Cao, Southeast University, Nanjing, China ([xhcao@seu.edu.cn](mailto:xhcao@seu.edu.cn)), Giancarlo Fortino, University of Calabria, Italy ([g.fortino@unical.it](mailto:g.fortino@unical.it)), Giuseppe Franzè, University of Calabria, Italy ([giuseppe.franze@unical.it](mailto:giuseppe.franze@unical.it)), Giuseppe Maria Luigi Sarnè, University Mediterranea of Reggio Calabria, Italy ([sarne@unirc.it](mailto:sarne@unirc.it)), Zhen Song, Department of Corporate Technology (CT), Siemens ([zhen.song@siemens.com](mailto:zhen.song@siemens.com))
  26. "IoT modelling and simulation in smart-everything computation at the Edge", *SIMPAT*, GEs: R. Montella, H. Karatza.
  27. "Pushing Artificial Intelligence to Edge: Emerging Trends, Issues and Challenges", *Engineering Applications of Artificial Intelligence*, GEs: M.M. Hassan, M. Zhou, M. Pathan, S. Karnouskos.
  28. "Internet of Things, Big Data and Smart Systems", *Sensors MDPI*, GEs: Prof. W. Shen, Prof. A Liotta, et al.: [https://www.mdpi.com/journal/sensors/special\\_issues/IOTBigData](https://www.mdpi.com/journal/sensors/special_issues/IOTBigData)
  29. "Special Collection on Security and Privacy in Edge Computing", *IJDSN*, GEs: Deze Zeng, China University of Geosciences, Wuhan, China, Zhangjie Fu, Nanjing University of Information Science and Technology, China, Cong Wang, City University of Hong Kong, Hong Kong, Liran Ma, Texas Christian University, USA. <https://journals.sagepub.com/page/dsn/collections/special-issues/security-and-privacy-in-edge-computing>
  30. "Deep learning in radiology - from image analysis to image reconstruction", *Computer Methods and Programs in Biomedicine*, GEs: Kelvin KL Wong, Jimmy Zhihua Liu.
  31. "Research Topic: Cardiovascular Physiology and Medical Assessments: Physics and Engineering Perspectives", *Frontiers in Physics, Frontiers in Physiology, Frontiers in Molecular Biosciences*, GEs: Dhanjoo Ghista, Kelvin Kian Loong Wong.
  32. "Body Sensor Networks (BSN) and Innovative Approaches for Data Fusion and Analytics in Internet of Medical Things (IoMT)", GEs: Pierluigi Ritrovato, Luca Greco, Kelvin Wong, Hassan Ghasemzadeh.
  33. "Wireless Body Area Networks for Health Applications", *Sensors MDPI*, GEs: Dr. Lorenzo Mucchi, Matti Hämäläinen, Massimiliano Pierobon, Diep Nguyen.
  34. "Wearable Electronics, Smart Textiles and Computing", *Sensors MDPI*, GEs: Wendong Xiao, Dongyi Chen, Ting Zhang, Li Liu.
  35. "Computational Biostatistics and Biometrics in Internet-of-Medical-Things", *Future Generation Computer Systems*, GEs: Kelvin KL Wong, Jimmy Zhihua Liu, Simon Fong.
  36. "Wireless Body Sensor Networks", *Wireless Communications and Mobile Computing*, GEs: David Naranjo-Hernández, Javier Reina-Tosina, Giancarlo Fortino, Guglielmo Frigo.
  37. "Artificial Intelligence and Cognitive Computing for Communication and Network", *IEEE Access*, GEs: Y. Zhang et al.
  38. "Smart Sensors for Internet of Medical Things in Clinical Domains", *IJDSN*, GEs: Wanqing Wu, Kelvin KL Wong, Dhanjoo N. Ghista, Simon Fong.
  39. "Advances in Multi-Sensor Fusion for Body Sensor Networks: Algorithms, Architectures, and Applications II", *Information Fusion*, GEs: GZ Yang, Y. Li, C. Poon, M. Yuce, H. Gasemzadeh.
  40. "Big Social Data and Urban Computing", *Information Systems*. Co-Guest Editors: Jonice Oliveira (Universidade Federal do Rio de Janeiro, Brazil), Claudio Miceli (Universidade Federal do Rio de Janeiro, Brazil), Prof. Esther Pacitti (Université Montpellier, France).
  41. Special Section on "Wearable Computing based on Body Sensor Networks", *IEEE Systems, Man & Cybernetics Magazine*.
  42. Special Issue on "Wireless Body Area Networks – Best Papers from Bodynets 2018", *International Journal on Wireless Information Networks*. Co-Guest Editors: Matti Hämäläinen, University of Oulu, Finland; Jari Iinatti, University of Oulu, Finland; Lorenzo Mucchi, University of Florence, Italy; Carlos Pomalaza-Raez, Purdue University, USA; Prof. Daisuke Anzai, Nagoya Institute of Technology, Japan.
  43. Special Issue on "Wireless Body Area Networks – Best Papers from Bodynets 2018", *IEEE Access*. Co-Guest Editors: Matti Hämäläinen, University of Oulu, Finland; Jari Iinatti, University of Oulu, Finland; Lorenzo Mucchi, University of Florence, Italy; Carlos Pomalaza-Raez, Purdue University, USA; Prof. Daisuke Anzai, Nagoya Institute of Technology, Japan.

44. Special Issue on “Pervasive Intelligence and Computing”, Sensors MDPI, [http://www.mdpi.com/journal/sensors/special\\_issues/Pervasive\\_Intelligence\\_Computing](http://www.mdpi.com/journal/sensors/special_issues/Pervasive_Intelligence_Computing). Co-Guest Editors: Jianhua Ma, Laurence T. Yang, Flavia Delicato, Pietro Manzoni. *on-going*.
45. Special Issue on “Trends, Perspectives and Prospects of Machine Learning Applied to Biomedical Systems in Internet of Medical Things”, IEEE Access. Co-Guest Editors: Kelvin KL Wong, Dhanjoo N Ghista, and Wanqing Wu. *on-going*.
46. Special Issue on “Next-Generation Smart Body Sensor Networks: from Autonomic Body Sensors to Cognitive Body Sensor Networks Ecosystems”, IEEE Sensors Journal. co-Guest Editors: Y. Li, M. Yuce, R. Jafari. *on-going*.
47. Special Issue on “Deep Learning Architectures and Applications for Wireless Networks and Service Management”, Wireless Communications and Mobile Computing. co-Guest Editors: Stenio Fernandes, Gabriel Wainer, Dave Cavalcanti, Ricardo Schmidt. *on-going*.
48. Special Issue on “Edge of the Cloud”, in Future Generation Computer Systems, co-Guest Editors: Anne James, Jiang and K. Chao. *on-going*.
49. Special Issue on “Emerging Edge-of-Things Computing: Opportunities and Challenges”, in *Future Generation Computer Systems*, co-Guest Editors: Mohammad Mehedi Hassan (Leading Guest Editor), A.M. Goscinski, Giancarlo Fortino, Sourav Bhattacharya, Sheng Chen (IEEE Fellow), Mengchu Zhou (IEEE Fellow). *on-going*.
50. Special Issue on “Emerging Social Internet of Things: Recent Advances and Applications”, in *IEEE IoT Journal*, co-Guest Editors: Prof. M. Zhou (NJIT, USA), M. M. Hassan (KSU, Saudi Arabia), Md Z. A. Bhuiyan (Fordham University, USA), Jianqiang Li (Beijing University of Technology, China), A.M. Goscinski (Deakin University, Australia), Sourav Bhattacharya (Nokia Bell Labs, Ireland). *on-finalization*.
51. Special Issue on “Cognitive Internet of Things”, in *IEEE IoT Journal*, Guest Editors: Min Chen (Lead), Tianyi Xing, Yin Zhang, Giancarlo Fortino, and Victor C.M. Leung. *on-finalization*.
52. Special Issue on “Cognitive Services Integrating with Big Data, Cloud Computing and IoT”, in Big Data and Cognitive Computing, MDPI, co-Guest Editors: Prof. Dr. Victor C.M. Leung and Dr. Y. Zhang. 2017
53. Special Issue on “Artificial Intelligence in Modeling and Simulation”, in SIMULATION (Sage Pub), co-Guest Editors: Prof. Tülay Yildirim, Yildiz Technical University, Turkey. 2017
54. Special Issue on "Advances in Multi-Sensor Fusion for Body Sensor Networks: Algorithms, Architectures, and Applications" in Information Fusion Journal, co-Guest Editors: Dr Hassan Ghasemzadeh, Washington State University (USA), hassan@eecs.wsu.edu, Dr Raffaele Gravina, University of Calabria (Italy), r.gravina@dimes.unical.it, Dr Peter X. Liu, Carleton University (Canada), xpliu@sce.carleton.ca, Dr Carmen C.Y. Poon, The Chinese University of Hong Kong (HK), cpoon@surgery.cuhk.edu.hk, Dr Zhelong Wang, Dalian University of Technology (China), [wangzl@dlut.edu.cn](mailto:wangzl@dlut.edu.cn). 2017
55. Special Issue on "Body Area Networks" in IEEE Access, co-associate editor: Dr. Ladislau Matekovits. 2017
56. Special Issue on "Advances in Body Sensor Networks: sensors, systems, and applications" in Sensors (MDPI), co-Guest Editor: W. Li, Y. Zhang, L. Benini, 2017.
57. Special Issue on "Emotion-aware Mobile Computing" in IEEE Access, co-Guest Editor: Dr. Yin Zhang, Zhongnan University of Economics and Law (China), Dr. Honggang Wang (University of Massachusetts Dartmouth, USA) and Dr. Wei Wang (San Diego State University, USA). 2017.
58. Special Issue on "Emotion-aware Healthcare Systems Integrating with Wearable and Cloud Computing" in Multimedia Tools and Applications, co-guest-editors: Yin Zhang (Zhongnan University of Economics and Law, China), Giancarlo Fortino (University of Calabria, Italy), Long Hu (The University of British Columbia, Canada), Kai Lin (University of Pennsylvania, USA). 2017.
59. Special Issue on "Convergence of Internet of Things and Cloud Computing: Recent Advances and Future Trends" in Cluster Computing, co-Guest Editors: Mohammad Mehedi Hassan, King Saud University, Riyadh, Saudi Arabia, Kim-Kwang Raymond Choo, University of South Australia, Australia, Meikang Qiu, Pace University, USA, Sheng Chen (IEEE Fellow), University of Southampton, United Kingdom. 2017.
60. Special Issue on "Cyber-physical Systems (CPS), Internet of Things (IoT) and Big Data" in Future Generation Computing Systems (FGCS). Co-editor: S. Ochoa, G. Di Fatta. 2015. 2017.
61. Special Issue on “Modeling, Simulation & Applications: New Directions”, in Complex Adaptive Systems Modeling. Co-editor: M. Niazi, 2016. 2017.
62. Special Issue on "Engineering Future Interoperable and Open IoT Systems" in Journal of Network and Computer Applications (JNCA). Co-editor: S. Ochoa, G. Di Fatta, C. Palau, 2017.
63. Special Issue on "Best papers from Bodynets 2014" in IEEE Trans. on Affective Computing. Co-editor: G.-Z. Yang. 2016.
64. Special Issue on CSCWD 2014/2015 in IEEE Trans. on Service Computing. Co-editor: Weiming Shen, W. van der Aalst et al. 2016.
65. Special Issue on "Advances and Applications of Internet of Things for Smart Automated Systems" in IEEE Transactions on Automation Science and Engineering. Co-editor: Weiming Shen, MengChu Zhou. 2016.

66. Special Issue on "Mobile Collaborative Systems" in Mobile Information Systems. Co-editor: Weiming Shen, S. Ochoa, Wenfeng Li.
67. Special Issue on "Enhancing Internet and Distributed Computing Systems with Wireless Sensor Networks" on Int'l Journal of Distributed Sensor Networks. Co-editor: R. Gravina, A. Liotta, W. Li, M. M. Hassan, 2015.
68. Special Issue on "Human-centered Internet of Things", IEEE Transactions on Human-Machine Systems, Co-editor: Sergio F. Ochoa, Weiming Shen, MengChu Zhou. *Turned into regular issue editing.*
69. Special issue on "IDCS 2013", CCPE (Concurrency Computation: Practice and Experience) Wiley, Co-editor: Dr. Mukaddim Pathan et al. 2015.
70. Special issue on "Agent-oriented methods for engineering complex distributed systems", EAAI (Engineering Applications of Artificial Intelligence) Elsevier. 2015.
71. "Wireless Technology for Pervasive Healthcare", MONET Journal (Springer). Co-editors: Dr. Xu Li, Inria, France, Dr. Xiaodong Lin, UOIT, Canada, Dr. Oscar Mayora, CREATE-NET, Italy, Dr. Enrico Natalizio, INRIA, France, Prof. Mehmet Yuce, Monash Univ., Australia.
72. "Collaborative Wireless Sensor Networks", Information Fusion (INFFUS), Elsevier. Co-editors: Dr. Mert Bal, Miami University (USA), Prof. Wenfeng Li, Wuhan University of Technology (China), Dr. Weiming Shen, National Research Council (Canada).
73. "Integration of Cloud Computing and Body Sensor Networks", Future Generation Computing Systems (FGCS), Elsevier. Co-editor: Dr. Mukaddim Pathan.
74. "Agent-Based Modeling and Simulation", Journal of Simulation (JoS), Palgrave. Co-editor: M.J. North, Argonne National Lab (USA), 2013.
75. "Special Issue of Intelligent Distributed Computing 2012", SAGE CERA Journal. 2013.
76. "Internet-based Content Delivery", *Computer Networks* (COMNET), Elsevier. Co-editors: Dr. Carlo Mastroianni, Dr. George Pallis, Dr. Mukaddim Pathan, Prof. Athena Vakali. 2011.
77. "Simulation-based development of Multi-Agent Systems", International Journal of Simulation Modeling Practice and Theory (SIMPAT), Elsevier. Co-editors: Dr. M. Cossentino, Prof. Juan Pavon, Dr. Marie-Pierre Gleizes. 2010.
78. "Next Generation Content Networks", International Journal of Networks and Computers Applications (JNCA), Elsevier. Co-editor: Dr. C. Mastroianni. 2009.
79. "Content Management and Delivery through P2P-based Content Networks", International Journal of Multi-Agent and Grid Systems, IOS Press. Co-editor Dr. C. Mastroianni. 2009.
80. "Enhancing Content Networks with P2P, GRID and Agent technologies", Future Generation Computer Systems The International Journal of Grid Computing: Theory, Methods and Applications, Elsevier. Co-editor: Dr. C. Mastroianni. 2008.
81. "Multi-Agent Systems and Simulation", International Journal of Agent Oriented Software Engineering, Inderscience publishing. Co-editors: Dr. M. Cossentino and Prof. Wilma Russo. 2008.
82. "Streaming Content Distribution Networks for e-Learning and e-Entertainment", ITSE Journal. Co-editor: prof. C.E. Palau. 2006.

**Co-editor of Books (*no conference proceedings*):**

1. *Next Generation Content Delivery Infrastructures: Emerging Paradigms and Technologies* (G. Fortino and C.E. Palau, Eds.), IGI Global, 2011.
2. *Internet of Things based on Smart Objects: technology, middleware and applications* (G. Fortino and P. Trunfio, Eds.), Springer Series on the Internet of Things: Technology, Communications and Computing. 2014.
3. *Management of Cyber Physical Objects in the Future Internet of Things: Methods, Architectures and Applications* (G. Fortino, A. Guerrieri, V. Loscri, A. Rovella, Eds.). Springer Series on the Internet of Things: Technology, Communications and Computing. 2016.
4. *Interoperability, Integration, and Interconnection of Internet of Things Systems* (R. Gravina, C. Palau, A. Liotta, M. Manso, G. Fortino, Eds.). Springer Series on the Internet of Things: Technology, Communications and Computing. 2017.
5. *The INTER-IoT Project: An Holistic Approach for IoT Platforms Interoperability* (G. Fortino, C. Palau, et al., Eds) Springer Series on the Internet of Things: Technology, Communications and Computing. 2021.
6. *New Frontiers in Cloud Computing and Internet of Things* (Rajkumar Buyya, Lalit Garg, Giancarlo Fortino, Sanjay Misra, Eds) Springer Series on the Internet of Things: Technology, Communications and Computing. <https://doi.org/10.1007/978-3-031-05528-7>. 2022.
7. *Integration of Internet of Things and Business Process Management* (G. Fortino, M. La Rosa, M. Mecella, Eds.) Springer Series on the Internet of Things: Technology, Communications and Computing. *Accepted*.

8. *Device-Edge-Cloud Continuum: paradigms, architectures and applications* (Claudio Savaglio, Giancarlo Fortino, Mengchu Zhou, Jianhua Ma, Eds) Springer Series on the Internet of Things: Technology, Communications and Computing. *Accepted.*

#### **Member of the Steering Committee International Conferences/Workshops**

1. IEEE Applied Sensing Conference (APSCON) on January 23-25, 2023 in Bengaluru, India  
<https://2023.ieee-apscon.org/international-advisory-committee/>
2. THE FIFTH INTERNATIONAL CONFERENCE ON BLOCKCHAIN COMPUTING AND APPLICATIONS (BCCA 2023), since 2023.
3. IEEE CyberSciTech, since 2022.
4. IEEE International Conference on Human-Machine Systems (HMS) (*co-chair of the steering com*) 2019-2022
5. The **1st DISCOLI workshop on DIStributed COLlective Intelligence** is co-located with the [42nd IEEE International Conference on Distributed Computing Systems \(ICDCS 2022\)](#) that will take place in Bologna, Italy, 10-13 July 2022.
6. 1st Workshop on Artificial Intelligence and Internet of Things for Digital Health (AIOT4DH) in conjunction with the IEEE/ACM Conference on Connected Health Applications, Systems, and Engineering Technologies IEEE/ACM CHASE 2021
7. <https://conferences.computer.org/chase2021/index.html>
8. The IEEE International Conference on Cyber Security and Resilience (IEEE CSR), <https://www.ieee-csr.org/>
9. International Workshop on Edge-of-Things (EoT)
10. IEEE International Conference on Networking, Sensing and Control (ICNSC)
11. International Workshop on Globe-IoT
12. International Workshop on Interoperability, Integration, and Interconnection of Internet of Things Systems (I4T)
13. International Workshop on Interactive and Wearable Computing and Devices (IWCD)
14. IEEE Computer Supported Collaborative Work in Design (CSCWD)
15. International Conference EAI/ACM Bodynets
16. International Forum of IoT and Applications (IF[IoT&A])
17. International Conference on Internet and Distributed Computing Systems (IDCS)
18. International Workshop on Multi-Agent Systems and Simulation (MAS&S)
19. JAWS (Joint Agent-based Workshops in Sinergy)
20. International Symposium on Intelligent Distributed Computing (IDC)
21. Workshop on Objects and Agents, Italian Reference Workshop of the Italian Agent Community.
22. International Workshop on Data-intensive Process Management in Large-Scale Sensor Systems (DPMSS) - *The workshop series was ended in 2015 after three successful editions. It was always organized in IEEE ACM/IEEE ccGRID (2013-2015).*
23. Workshop on Self-Organizing Wireless Access Networks for Smart City (SWANSITY)
24. UPGRADE-CN (the Use of P2P, GRid and Agents for the DEvelopment of Content Networks) – *the workshop series was ended in 2010 after five successful editions. It was organized in IEEE HPDC (2006-2009) and ACM/IEEE ccGRID (2010).*

#### **Chair of Conferences/Workshops/Special Sessions**

1. **General Chair of 2023 International Conference on Embedded Wireless Systems and Networks (EWSN), Calabria, Italy, 2023.**
2. **Associate Editor of Biomedical Sensors & Wearable Systems Theme, EMBC 2023.**
3. **Co-Chair of Track 7: Industry 4.0 at IEEE EUROCON 2023 in Turin, Italy, July 6-8, 2023.**
4. **Special Session Chair of the 2023 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2023), October 1-4, 2023 in at the Hyatt Maui, in Maui, Hawaii.**
5. **Special Issue Chair.** <https://iee-smart-world-congress.org/smc-organizing-committee/>
6. **General Chair of 2022 CyberSciTech/DASC/PICom/CBDCOM, Calabria, Italy, 2022.**
7. **Chair of COMMON-WEARS'22 at 2022 CyberSciTech/DASC/PICom/CBDCOM, Calabria, Italy, 2022.**
8. **General co-Chair of The Fourth International Conference on Blockchain Computing and Applications (BCCA 2022), SEPTEMBER 5-7, 2022 – SAN ANTONIO, TEXAS, USA**
9. **Associate Editor of Biomedical Sensors & Wearable Systems Theme, EMBC 2022.**

10. **General Chair of 3<sup>RD</sup> DOCTORAL SYMPOSIUM ON COMPUTATIONAL INTELLIGENCE (DOSCI 2022)** 5th March, 2022 Organised by Institute of Engineering & Technology, a constituent college of Dr APJ Abdul Kalam Technical University Lucknow, India
11. **Special session co-chair, 18th IEEE International Conference on Automation Science and Engineering, August 20-24, 2022, Sheraton Maria Isabel Hotel, Mexico City, México**
12. **Special Session, Tutorial and Workshop co-Chair, Applied Intelligence and Informatics (AII) Conference, Sep 1-3, Reggio Calabria (Italy), 2022.**
13. **Publicity chair of IEEE Conference Human-Machine Systems (ICHMS) 2022, Orlando, Florida, Sept. 2022.**
14. **General co-chair of IEEE Conference Human-Machine Systems (ICHMS) 2021, Magdemburg, Germany, Sept. 2021.**
15. **Program co-Chair 2021 International Conference on Cyber-physical Social Intelligence, December 18-20, 2021, Beijing, China, [https://iccsi2021.agist.org/Organizing\\_committee.html](https://iccsi2021.agist.org/Organizing_committee.html)**
16. **Program co-Chair, The International Conference on Soft Computing and Pattern Recognition, SoCPaR 2021, Dec. 15-17, 2021. <http://www.mirlabs.org/socpar21/cfp.php>**
17. **General Chair 1st Workshop on Artificial Intelligence and Internet of Things for Digital Health (AIIOT4DH) in conjunction with the IEEE/ACM Conference on Connected Health Applications, Systems, and Engineering Technologies (IEEE/ACM CHASE 2021), December 16 - 17, 2022 Washington D.C., USA.**
18. **Workshop Chair of IEEE/ACM Conference on Connected Health Applications, Systems, and Engineering Technologies (IEEE/ACM CHASE 2021), December 16 - 17, 2022 Washington D.C., USA.**
19. **Special Session Co-Chair of BSN 2021, Athens, Greece, 2021.**
20. **Program Co-Chair for Quality Control/Assurance, IEEE SMC 2021, Melbourne, 2021.**
21. **Associate Editor (07. Biomedical Sensors and Wearable Systems) for 2021 43rd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC). Oct 31 - Nov 4, 2021, Expo Guadalajara, Mexico.**
22. **Executive General chair of IEEE Conference CyberTech 2020/21, Calgary, Canada 2020/21.**
23. **General Chair of 2ND DOCTORAL SYMPOSIUM ON COMPUTATIONAL INTELLIGENCE (DOSCI 2021) - 6th March, 2021 - Organised by Institute of Engineering & Technology, a constituent college of Dr APJ Abdul Kalam Technical University Lucknow, India**
24. **Co-chair of Management for Industry 4.0 Workshop @ NOMS 2021.**
25. **Program co-Chair of ICCCN 2021, INTERNATIONAL CONFERENCE ON COMPUTING AND COMMUNICATION NETWORKS (ICCCN-2021), NOV 19-20, 2021, MANCHESTER METROPOLITAN UNIVERSITY, UK, <https://icccn.co.uk/>**
26. **Associate Editor (07. Biomedical Sensors and Wearable Systems) of EMBC 2020 - 2020 42nd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC), July 20-24, 2020, Montréal, Canada.**
27. **General chair of IEEE Conference Human-Machine Systems (ICHMS) 2020, Rome, Italy, Apr. 2020.**
28. **General co-chair of IDC (Intelligent Distributed Computing) 2020/21, Scilla (RC), Italy, Oct. 2020/21.**
29. **General co-chair of Bodynets 2020.**
30. **Co-chair of Management for Industry 4.0 Workshop @ NOMS 2020.**
31. **Publicity Co-Chairs of the IEEE/ACM international conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE) 2020, Washington DC.**
32. **Area-chair human-machine systems of IEEE SMC conference 2019, Bari (Italy), 2019.**
33. **Special session chair of IDCS (Internet and Distributed Computing Systems) 2019, Naples (Italy), Oct. 2019.**
34. **Leading Co-chair of Globe-IoT 2019 workshop jointly held with IEEE WF-IoT 2019, Limerick, Ireland, Apr. 2019.**
35. **Co-chair of Big Data Networking Symposium, jointly held with the 15th International Wireless Communications & Mobile Computing Conference, Tangier, June 2019, IWCMC 2019 Website: <http://iwcmc.org/2019/>, co-chairs: Yong Li (Tsinghua University, China), Min Chen (Huazhong University of Science and Technology, China) et al.**
36. **Co-chair of Special Session on Internet of Things and Smart Logistics (co-chair: Wenfeng Li) at IEEE CSCWD 2019, Porto (Portugal), May 2019.**
37. **Co-chair of Workshop/Special Sessions, The 17th IEEE International Conference on Pervasive Intelligence and Computing (PICom 2019), 5-8 August 2019, Fukuoka, Japan.**
38. **Co-chair of Special Session on "Resilient Control in Large-Scale Networked Cyber-Physical Systems", IEEE CODIT'19 April 23-26, 2019 -Paris, France. <http://codit19.com/index.php/special-sessions>**

39. Award Co-Chair of IEEE ICNSC 2019, Banff (Canada), 2019.
40. Keynote & Panel Chair for SDS 2019 and FMEC 2019
41. Sponsorship Co-Chair for ICCCN 2019
42. Area Chair of The 4th International Symposium on Artificial Intelligence and Robotics - ISAIR2019 will be held in Kyungpook National University on August 20-24, 2019, Daegu, Korea. <https://isair.site/isair2019>
43. Co-Chair of 2nd WGF – 2018 edition *What grid for the future, what future for the grid. 7th of December 2018, Distretto Domus – Residence Chiodo 2 – Università della Calabria; From Consumers to Nonsumers: IoT-enabled models and technologies for energy communities*
44. Co-chair PICom 2018, The 16<sup>th</sup> IEEE Int'l Conference on Pervasive Intelligence and Computing (PICom 2018), Aug 6-10, Athens (Greece), 2018.
45. Co-chair of Big Data Networking Symposium, jointly held with the 14th International Wireless Communications & Mobile Computing Conference, St. Raphael Resort & Marina, Limassol, Cyprus, June 25th - 29th, 2018, IWCMC 2018 Website: <http://iwcmc.org/2018/>, co-chairs: Yong Li (Tsinghua University, China), Min Chen (Huazhong University of Science and Technology, China).
46. Co-chair of the International Conference IDCS 2018, Tokyo, Japan, Sept. 2018.
47. Co-chair of BiDU – Workshop on Big Social Data and Urban Computing @ Very Large Data Bases (VLDB) Conference 2018, <http://vldb2018.lncc.br/>. Jonice Oliveira (Universidade Federal do Rio de Janeiro, Brazil), Claudio Miceli (Universidade Federal do Rio de Janeiro, Brazil), Prof. Esther Pacitti (Université Montpellier, France)
48. Co-general chair of EAI BodyNets 2018, Oulu (Finland), 2-3 Oct. 2018.
49. Co-chair of Globe-IoT 2018 workshop jointly held with IEEE IoTDI and IC2E 2018, Orlando, USA, Apr. 2018.
50. Co-chair of the 9<sup>th</sup> edition of Special Session on “Collaborative Wireless Sensor Networks and IoT Technology” jointly held with IEEE SMC 2018, Japan, 2018.
51. Co-chair of the 3rd edition of Special Session on “Interactive and Wearable Computing and Devices” jointly held with IEEE SMC 2018, Japan, 2018.
52. General chair of ICNSC 2017, Calabria (Italy), 2017.
53. Co-general chair of EAI/ACM BodyNets 2017, Dalian, China, 28-29 Sept. 2017.
54. Co-chair of Track on “Complex Adaptive Systems Modeling & Simulation of Emergent Technologies” at FIT 2017, Co-chair: Dr. Muaz Niazi. [http://fit.edu.pk/index.php?option=com\\_content&view=article&layout=edit&id=114](http://fit.edu.pk/index.php?option=com_content&view=article&layout=edit&id=114)
55. Co-chair of the 2nd International Workshop IWCD (Interactive and Wearable Computing and Devices) 2016 @ IEEE ICNSC 2017, Calabria, Italy.
56. Co-Chair of INTER-IoT special session @ IEEE ICNSC 2017, Calabria, Italy.
57. Co-Chair of SIoT special session @ IEEE ICNSC 2017, Calabria, Italy.
58. Co-Chair of Big Data Networking Symposium @ The 13th International Wireless Communications & Mobile Computing Conference IWCMC 2017 Website: <http://iwcmc.org/2017/>, Valencia, Spain.
59. General co-chair of EAI INTER-IoT conference, Valencia (Spain), 2017.
60. Co-chair of Workshop JAWS/MAS&S @ IEEE FedCSIS 2017, Prague, Czech Republic.
61. Co-chair of the International Conference IDCS 2017, Fiji, Fiji.
62. Co-chair of the Special Session on “Distributed Adaptive Systems” jointly held with IEEE SMC 2017, Banff (Canada), 2017.
63. Co-chair of the 8<sup>th</sup> edition of Special Session on “Collaborative Wireless Sensor Networks and IoT Technology” jointly held with IEEE SMC 2017, Banff (Canada), 2017.
64. Co-chair of the 2nd edition of Special Session on “Interactive and Wearable Computing and Devices” jointly held with IEEE SMC 2017, Banff (Canada), 2017.
65. Program Co-Chair of EAI Tridentcom, Wuhan (China), 2017. <http://tridentcom.org/2017/show/cf-papers>
66. Track Co-Chair @ IEEE CSCN 2017, Track on *IoT, massive MTC and V2X* (3GPP, OneM2M, IETF): JaeSeung Song (Sejong Univ, South Korea), Andreas Kunz (NEC Europe, Germany), Zexian Li (Nokia Bell Labs, Finland), Giancarlo Fortino (University of Calabria, Italy).
67. Co-chair of Globe-IoT workshop jointly held with IEEE CCNC 2017, Las Vegas, Jan. 2017.
68. Publicity co-Chair of 2<sup>nd</sup> IEEE IoTDI 2017 jointly held with CPSWeek 2017.
69. Co-general chair of EAI/ACM BodyNets 2016, Turin, Italy.
70. Co-chair of 1st International Workshop on Interoperability, Integration, and Interconnection of Internet of Things Systems (I4T 2016) jointly held with IEEE IoTDI and IC2E, Berlin, 4 Apr 2016.
71. Co-chair of Workshop JAWS/MAS&S @ IEEE FedCSIS 2016, GDansk, Poland.
72. Co-chair of the International Conference IDCS 2016, Wuhan, China.
73. Co-chair of the 1st International Workshop IWCD (Interactive and Wearable Computing and Devices) 2016 @ IEEE CSCWD 2016, Nanchang, China.
74. Co-chair of the 5th International Workshop IoT & Logistics 2016 @ IEEE CSCWD 2016, Nanchang, China.

75. Co-chair of the 7<sup>th</sup> edition of Special Session on “Collaborative Wireless Sensor Networks and IoT Technology” jointly held with IEEE SMC 2016, Budapest, 2016.
76. Co-chair of the 1st edition of Special Session on “Interactive and Wearable Computing and Devices” jointly held with IEEE SMC 2016, Budapest, 2016.
77. Co-chair of Track on Modeling, Simulation & Applications of ICT, FIT 2016 (14th International Conference on Frontiers of Information Technology), December 14-16, 2016 at Islamabad Pakistan. Co-chair: Dr. Muaz Niazi.
78. General chair of IEEE CSCWD (Computer Supported Collaborative Work in Design) 2015, Calabria (Italy). CSCWD is the flagship conference of the CSCWD TC of the IEEE SMC society.
79. Co-chair of EAI/ACM BodyNets 2015, Sydney, Australia.
80. Co-chair of IDCS 2015, Reading, UK.
81. Co-chair of UCAMI 2015: 8th International Conference on Ubiquitous Computing & Ambient Intelligence (UCAMI 2015), Puertos Varas, Chile.
82. Co-chair of First International Workshop on the Convergence of Cloud computing, Internet of Things and Social Media (CISME 2015), October 28-30, 2015 -- Daejeon, South Korea, in Conjunction with CloudComp 2015, co-chairs: Mohammad Mehedi Hassan, King Saud University, Saudi Arabia, Yang Xiang, Deakin University, Australia.
83. Co-chair of Track on Modeling, Simulation & Applications of ICT, FIT 2015 (13th International Conference on Frontiers of Information Technology), December 14-16, 2015 at Islamabad Pakistan. Co-chair: Dr. Muaz Niazi.
84. Co-chair of Workshop DPMSS 2015 @ IEEE/ACM ccGRID 2015
85. Co-chair of Workshop JAWS/MAS&S @ IEEE FedCSIS 2015, Lodz, Poland.
86. Co-Chair 6<sup>th</sup> edition of Special Session on “Collaborative Wireless Sensor Networks and IoT Technology” jointly held with IEEE SMC 2015, Hong-Kong, 2015.
87. Co-chair of 4th edition of Workshop on IoT and Logistics, CSCWD 2015, co-chair: Wenfeng Li and A. Guerrieri.
88. Co-chair of Track "Secure Technology for Distributed Computation and Sensor Networks" @ 3PGCIC-2015 conference - 10th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing, November 4-6, 2015, Krakow, Poland.
89. General chair of EAI/ACM BodyNets 2014, London (UK).
90. General chair of IDCS (Internet and Distributed Computing Systems) 2014, Calabria (Italy).
91. Co-chair of Workshop UBICTEC 2014 @ CPSWeek 2014
92. Co-chair of Workshop DPMSS 2014 @ IEEE/ACM ccGRID 2014
93. Co-chair of Workshop MASGEM @ PAAMS 2014
94. Co-chair of Workshop JAWS/MAS&S @ IEEE FedCSIS 2014
95. Co-chair of Workshop I-MASC @ CTS 2014
96. Co-chair of 3rd edition of Workshop on IoT and Logistics, CSCWD 2014, co-chair: Wenfeng Li.
97. Co-Chair 5<sup>th</sup> edition of Special Session on “Collaborative Wireless Sensor Networks and IoT Technology” jointly held with IEEE SMC 2014, San Diego (USA), 2014.
98. Vice-Chair of EAI/ACM BodyNets 2013, Boston, Usa.
99. Co-chair of Special Track CCPS – EAI/ACM Bodynets 2013, Boston, Usa.
100. The 2013 International Workshop on Cloud-assisted Smart Cyber-Physical Systems (C-SmartCPS 2013) @ ICA3PP 2013, Sorrento, Italy.
101. 6th International Conference on Internet and Distributed Computing Systems (IDCS 2013). Hangzhou, China, 28-30 October 2013.
102. 4<sup>th</sup> edition of Special Session on “Collaborative Wireless Sensor Networks and IoT Technology” jointly held with IEEE SMC 2013, Manchester (UK), 2013.
103. 7<sup>th</sup> Workshop “Multi-Agent Systems and Simulation (MAS&S 2013)” jointly held with Multiagent System Conference (MATES 2013) – 2013, Koblenz, Germany, September, 15-16, 2013. Co-chairs: Dr. Juan Botia.
104. 1<sup>st</sup> Workshop on Multi-agent Based Applications for Sustainable Energy Systems (MASSES) as part of 11th Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS), Salamanca (Spain), 22nd-24th May, 2013. Co-chairs: R. Unland and R. Kowalczyk.
105. 2<sup>nd</sup> Workshop DPMSS (Data-intensive Process Management in Large-Scale Sensor Systems) 2013 jointly held with ACM/IEEE ccGrid 2013 (Delft, Netherlands). Co-chair: A. Cuzzocrea (ICAR-CNR, Italy), O. Rana (Univ. of Cardiff, UK). May, 13, 2013.
106. 4<sup>th</sup> International Workshop on Networks of Cooperating Objects for Smart Cities 2013 (CONET/UBICTEC 2013) jointly held with CPSWeek 2013, Philadelphia, PA, USA, April 8, 2013. Co-chair: Pedro Jose' Marron (University of Duisburg-Essen), Stamatis Karnouskos (SAP Research), Jose L. Martinez Lastra (Tampere University of Technology).
107. 2nd edition of Workshop on IoT and Logistics, CSCWD 2013, co-chair: Wenfeng Li.
108. 6<sup>th</sup> International Symposium on IDC (Intelligent Distributed Computing) 2012, 24-26 Sept., Calabria, Italy. General and Program Chair.

109. 6<sup>th</sup> Workshop “Multi-Agent Systems and Simulation (MAS&S 2012)” jointly held with FEDERATED CONFERENCE ON COMPUTER SCIENCE AND INFORMATION SYSTEMS, FedCSIS – 2012, Wroclaw, Poland, September, 2012. Co-chairs: Dr. J. Botia and Dr. F. Kugln.
110. 1<sup>st</sup> Workshop DPMSS (Data-intensive Process Management in Large-Scale Sensor Systems) 2012 jointly held with ACM/IEEE ccGrid 2012 (Ottawa, Canada). Co-chair: A. Cuzzocrea (ICAR-CNR, Italy). May, 13, 2012.
111. 4<sup>th</sup> edition of special session on Collaborative Wireless Sensor Networks jointly held with SMC 2012 (Seoul, South Korea). Co-chair: Prof. Weiming Shi, Prof. Wenfeng Li and Dr. Mert Bal.
112. 1<sup>st</sup> edition of Workshop on IoT and Logistics, CSCWD 2012, co-chair: Wenfeng Li.
113. 12<sup>th</sup> Workshop WOA 2011 “From Objects to Agents”, Rende (CS), Italy. Co-chair: Prof. W. Russo, Dr. Alfredo Garro, Prof. Luigi Palopoli, Dr. Giandomenico Spezzano.
114. 3<sup>rd</sup> edition of special session on Collaborative Wireless Sensor Networks jointly held with SMC 2011 (Anchorage, USA). Co-chair: Prof. Weiming Shi, Prof. Wenfeng Li and Dr. Mert Bal.
115. Foundation of JAWS (Joint Agent-oriented Workshops in Synergy) which includes: ABC 2011, MAS&S 2011, and SOCASE 2011. JAWS is hosted by FEDERATED CONFERENCE ON COMPUTER SCIENCE AND INFORMATION SYSTEMS, FedCSIS – 2011, Szczecin, Poland, 19-21 September, 2011. Co-chairs: Dr. Maria Gamzha, Dr. Marcin Paprzycky, and Prof. Rainer Unland.
116. 5<sup>th</sup> Workshop “Multi-Agent Systems and Simulation (MAS&S 2011)” jointly held with FEDERATED CONFERENCE ON COMPUTER SCIENCE AND INFORMATION SYSTEMS, FedCSIS – 2011, Szczecin, Poland, 19-21 September, 2011. Co-chairs: Dr. Jorge Gomez and Dr. Carole Bernon.
117. The 4<sup>th</sup> International Workshop on Internet and Distributed Computing Systems (IDCS 2011) in conjunction with ICA3PP’11, October 24-26, 2011, Melbourne, Australia”. Co-chairs: Jemal Abawajy - Deakin University, Australia, Ragib Hasan - Johns Hopkins University, USA, and Mustafizur Rahman - IBM, Australia.
118. Track session “Modeling and Simulation for Biosciences and Bioinformatics” in Workshop “Modeling & Simulation in Healthcare” at the European Modeling & Simulation Symposium 2011 (EMSS 2011). Co-Chairs, Muaz Niazi (COMSATS Institute of IT, Islamabad Pakistan) and Amir Hussain (University of Stirling, Scotland, UK) ahu@cs.stir.ac.uk.
119. 5<sup>th</sup> Workshop on “Content Delivery Networks (CDN) 2010” jointly held with 10<sup>th</sup> IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid 2010) 17-20 May 2010, Melbourne, Australia, co-chairs: Dr. George Pallis (University of Cyprus), Dr. Mukaddim Pathan (University of Melbourne), Dr. Swaminathan Sivasubramanian (Amazon.com, Inc., USA).
120. 4<sup>th</sup> Workshop on “the Use of P2P, GRid and Agents for the DEvelopment of Content Networks (UPGRADE-CN’09)”, jointly held with IEEE HPDC ’09, Munich, Germany, 10 June 2009. Co-chairs: Dr. Carlo Mastroianni (ICAR/CNR, Italy), Dr. Mukaddim Pathan (University of Melbourne), Prof. Athena Vakali (Aristotle University of Thessaloniki, Greece).
121. 3<sup>rd</sup> Workshop on “Multi-agent System and Simulation (MAS&S’2009): Towards an Integration of Agent-Oriented Software Engineering and Simulation”, as part of the Int’l Conference MALLOW’09 (Multi-Agent Logics, Languages, and Organisations Federated Workshops), Turin, Sep. 7-11, 2009. Co-chairs: Dr. Massimo Cossentino (ICAR/CNR, Italy), prof. Juan Pavon (Universidad de Madrid, Spain) e la prof. Marie-Pierre Gleizes (Université Paul Sabatier, France).
122. The Fifth IEEE International Conference on Networking and Services (ICNS 2009), co-chaired with Burakowski W. , Casares V. , Dini P. , Jia X. , Sierra-pérez M. , Lloret Mauri J. , Ung K. Y. , Lehmann L. , Sánchez F. J., Sales S. , Xia F. , 2009.
123. 1<sup>st</sup> special session on “Self-Adaptive Agents”, within IEEE International Symposium on Intelligent Agents – part of the IEEE Symposium Series on Computational Intelligence 2009, March 30 – April 2, 2009, Nashville, TN, USA. Co-chairs: Dr. Amir Hussain (University of Stirling, UK), Dr. Sherief Abdallah (British University in Dubai, UAE), Muaz Niazi (Foundation University, Pakistan).
124. 3<sup>rd</sup> Workshop on “the Use of P2P, GRid and Agents for the DEvelopment of Content Networks (UPGRADE-CN’08)”, jointly held with IEEE HPDC’08, Boston, MA, USA, 23 June 2008. Co-chairs: Dr. C. Mastroianni (ICAR/CNR, Italy) and Dr. Mukaddim Pathan (University of Melbourne).
125. 2<sup>nd</sup> Workshop on “the Use of P2P, GRid and Agents for the DEvelopment of Content Networks (UPGRADE-CN’07)”, jointly held with IEEE HPDC’07, Monterey, CA, USA, 26 Jun 2007. Co-chairs: Dr. C. Mastroianni (ICAR/CNR, Italy) and Dr. Guillaume Pierre (Vrye University).
126. 2<sup>nd</sup> Workshop on “Multi-agent System and Simulation (MAS&S’07)”, jointly held with EUROSIS ESM (European Simulation and Modeling Conference), Malta, 23 Oct 2007. Co-chairs: Dr. M. Cossentino (ICAR/CNR, Italy) and Prof. Juan Pavon (Universidad Complutense de Madrid).
127. 1<sup>st</sup> Workshop on “the Use of P2P, GRid and Agents for the DEvelopment of Content Distribution Networks (UPGRADE-CDN’06)”, jointly held with IEEE HPDC’06, Paris, France, 19 Jun 2006. Co-chairs: Dr. C. Mastroianni (ICAR/CNR, Italy) and Prof. C.E. Palau (Politechnique of Valencia, Spain).



128.1<sup>st</sup> Workshop on “Multi-agent System and Simulation (MAS&S'06)”, jointly held with EUROSIS ISC (Industrial Simulation Conference), 5 Jun 2006. Co-chairs: Dr. M. Cossentino (ICAR/CNR, Italy) and Prof. W. Russo (University of Calabria).

### **Member of Program Committees of International Conferences**

He is/was in international program committees of many (>750) international conferences/workshops sponsored by IEEE, ACM, Springer, SCS, IARIA, IASTED, EUROSIS, etc.

### **Reviewer for International Journals**

He also served as invited reviewer for the following premiere international journals:

#### **IEEE:**

- IEEE Access
- IEEE Aerospace and Electronic Systems Magazine
- IEEE Communications Magazine
- IEEE Internet Computing
- IEEE Internet of Things Journal
- IEEE Journal of Biomedical and Health Informatics
- IEEE Networks
- IEEE Sensors Journal
- IEEE SMC Magazine
- IEEE Systems Journal
- IEEE Transactions on Automation Science and Engineering
- IEEE Transactions on Big Data
- IEEE Transactions on Cloud Computing
- IEEE Transactions on Communications
- IEEE Transactions on Cybernetics
- IEEE Transactions on Human-Machine Systems
- IEEE Transactions on Industrial Electronics
- IEEE Transactions on Industrial Informatics
- IEEE Transactions on Instrumentation and Measurements
- IEEE Transactions on Intelligent Transportation Systems
- IEEE Transactions on Knowledge and Data Engineering
- IEEE Transactions on Multimedia Systems
- IEEE Transactions on Network and Service Management
- IEEE Transactions on Neural Networks and Learning Systems
- IEEE Transactions on Sustainable Computing
- IEEE Transactions on Parallel and Distributed Systems
- IEEE Transactions on Signal Processing
- IEEE Transactions on Systems Man and Cybernetics--Part A: Systems
- IEEE Transactions on Systems Man and Cybernetics--Part C: Applications and Reviews
- IEEE Transactions on Systems Man and Cybernetics: Systems
- IEEE Transactions on Very Large Scale Integration Systems

#### **ACM:**

- ACM Communications of ACM
- ACM Transactions on Autonomous and Adaptive Systems
- ACM Transactions on Internet Technology
- ACM Transactions on Modeling and Computer Simulation
- ACM Transactions on Sensor Networks
- ACM Transactions on the Web;

#### **Elsevier:**

- Advanced Engineering Informatics
- Annual Reviews in Control
- Computer Communications
- Computer Networks
- Computer Standards and Interfaces
- Computers in Biology and Medicine
- Computers and Electrical Engineering
- Computers in Industry

Data and Knowledge Engineering  
Enterprise Information Systems.  
Expert Systems With Applications  
Future Generation Computer Systems  
Information and Software Technology  
Information Fusion  
Information Sciences  
International Journal of Human-Computer Studies  
Journal of Computational Science  
Journal of Economic Behavior and Organization  
Journal of Network and Computer Applications  
Journal of Systems and Software  
Journal of Systems Architecture  
Microelectronics Journal  
Pervasive and Mobile Computing  
Robotics and Autonomous Systems  
Science of Computer Programming

**Springer:**

Circuits  
Computing  
Earth Science Informatics  
Journal of Computer Science and Technology  
Journal of Zhejiang University Science C (Computers & Electronics)  
Progress in Artificial Intelligence  
Systems and Signal Processing  
Transactions of Computational Collective Intelligence  
Wireless Networks

**Other Publishers:**

Autosoft Journal: Intelligent automation & Soft Computing  
Computer Science and Information Systems  
Concurrency and Computation: Practice & Experience, Wiley  
Multi-Agent and Grid Systems, IOS Press  
Sensors — Open Access Journal  
Sensors & Actuators: A. Physical  
Service Science  
Simulation: Transactions of the Society for Modeling and Simulation International  
Software Practice and Experience, Wiley  
The Computer Journal, Oxford Press

**IEEE Society Positions, Activities and Awards**

In the framework of the IEEE society, he is *Fellow (class 2022)*. He is member of Computer, SMC, and Communications societies (and other initiatives such as IoT initiative).

In particular, he is active member of the SMC (Systems, Man and Cybernetics) society where he serves as:

- Member-at-large of the Board-of-Governors (BoG), first term 2018-2020; reconfirmed for the second term 2021-2023;
- Since July 2022, Associate VP of Cybernetics in IEEE SMC society.
- IEEE SMC Italian Chapter Chair from 2016 to 2022;
- Co-founding co-chair of the IEEE SMC Technical Committee on "Interactive and Wearable Computing and Devices";
- Active members of the following technical committees: Computer Supported Cooperative Work in Design (CSCWD), Distributed Intelligent Systems (DIS), and Environmental Sensing, Networking and Decision-Making (ESND), of which he is also a founding member.
- Member of the Publication Committee of IEEE SMCS (since 2017).
- Member of SMCS HMS and Cybernetics Committees (since 2019).

In 2020, he received the *Outstanding Chapter Award* as Chair of the Italy SMC Chapter.

In 2021, he received the *Most Active HMS TC Award* of the IEEE SMC society.

In 2021, he received the *Meritorious Award* from the IEEE SMC society.

He was in the IEEE Press Editorial Board of Governors (2016-2018 term), being very active in launching new initiative involving IEEE Book series (he founded the brand new IEEE Book series on Human-Machine Systems) and connecting IEEE Press with IEEE SMCS.

In the IEEE Systems council, he is co-founder and co-chair of the Hyper-Intelligence Technical Committee, <https://ieeesystemscouncil.org/hyper-intelligence-technical-committee>.

In the IEEE Engineering in Medicine and Biology (EMB) Society, he is a member of Wearable Biomedical Sensors and Systems Technical Committee (TC): his main activity involves the promotion of research and events on middleware for BSN systems.

In the IEEE Communications Society, he is also founding member of IEEE SIG on Big Data for Healthcare, Medicine and Biology.

He is also member of the IEEE CIS Smart World Technical Committee.

He participates as invited member to IEEE Standards Healthcare-Life Science meetings, organized by IEEE Standards Association, specifically contributing to WAMIII (Wearables & Medical IoT Intelligence & Interoperability) Virtual Talk Series.

### **Other Scientific societies**

He is also Fellow of the Asia-Pacific Artificial Intelligence Association (AAIA). He is member of ACM since 2002 and was member of IFAC, SCS, ISCA, Eurosis, etc. He is also invited member of the OCIBE society committee: <http://www.ocibe.com/bso.html>, Overseas Chinese International Biomedical Engineering Society. He is member of the newly established AGIST – Association of Global Intelligent Science and Technology. He is also member of I-RIM: the Italian Institute for Robotics and Intelligent Machines, Italy.

### **INVITED TALKS, KEYNOTES, TUTORIALS, AND PANELS**

1. Keynote “Pushing Intelligence to the Edge of Internet of Things: A new Paradigm enabling Next-Generation Smart Systems of Systems” at IEEE Sponsored 13th International Conference- Confluence 2023 (19th-20th January 2023): <http://amity.edu/aset/confluence2023/>, Jan 19, 2023.
2. Keynote “Pushing Intelligence to the Edge of Internet of Things: A new Paradigm enabling Next-Generation Smart Systems of Systems” at 1st International Conference on Emerging Technologies in Electronics, Computing and Communication (ICETECC’22), December 7-9, 2022 at Department of Electronic Engineering Mehran University of Engineering & Technology Jamshoro, Pakistan.
3. Keynote “Pushing Intelligence to the Edge of Internet of Things: A new Paradigm enabling Next-Generation Smart Systems of Systems” at EAI MobiCASE 2022, Messina, Nov. 2022.
4. Keynote “Pushing Intelligence to the Edge of Internet of Things: A new Paradigm enabling Next-Generation Smart Systems of Systems”, The 6th International Conference On Big Data and Internet of Things BDIoT’22, October 25-27, 2022, Tangier - Morocco.
5. Keynote “Towards Community-Oriented Wearable Computing Systems: A Paradigm Shift to Monitor and Control Cooperative Groups of People based on Collectives of Wearables”. IEEE MysuruCon-2022, Oct. 16-17, 2022: <https://www.mysurucon.com/>
6. Keynote “Pushing Intelligence to the Edge of Internet of Things: A new Paradigm enabling Next-Generation Smart Systems of Systems” The 3rd International Conference on Industrial IoT, Big Data and Supply Chain (IIoTBDSC 2022) Conference Date: September 23-25, 2022
7. Keynote “Pushing Intelligence to the Edge of Internet of Things: A new Paradigm enabling Next-Generation Smart Systems of Systems” at The 30th Italian Workshop on Neural Networks (WIRN 2022), Sept. 7 2022.
8. Distinguished Lecture on Wearable Computing Systems based on Body Sensor Networks: State-of-the-art and Future Research Challenges at IEEE Galveston Bay Section, Joint Sensor Council Chapter, "SENSOR WEEK" with special Webinars On THURSDAY, July 21st, 11:00 AM US-Central
9. Keynote “Pushing Intelligence to the Edge of Internet of Things: A new Paradigm enabling Next-Generation Smart Systems of Systems” at Workshop D-IoT, The 2022 IEEE 95th Vehicular Technology Conference: VTC2022-Spring will be held in Helsinki, Finland 19 - 22 June 2022

10. Tutorial 2.1: Pushing Intelligence to the Edge of Internet of Things: A new Paradigm enabling Next-Generation Smart Systems of Systems, TRACK 2 - SMART INDUSTRY. IEEE Melecon 2022, 14 June 2022: <https://melecon2022.org/tutorials/>
11. Keynote “Pushing Intelligence to the Edge of Internet of Things: A new Paradigm enabling Next-Generation Smart Systems of Systems”, 5th Conference on Cloud and Internet of Things, March 28-30, 2022 Marrakech, Morocco.
12. Distinguished Lecture “*Wearable computing systems based on body sensor networks*”, IEEE Sensor Council, WOLT 2021, IEEE Gujarat Section Sensors Council’s Women in Sensors (WiSe) group and the Signal Processing Society Chapter’s Women in Signal Processing (WISP), Dec 14 2021.
13. Keynote “*Pushing Intelligence to the Edge of Internet of Things: A new Paradigm enabling Next-Generation Smart Systems of Systems*”, 11th International Advanced Computing Conference (IACC) on 18th & 19th December, 2021 at University of Malta, Malta.
14. Keynote “Blockchain-enabled Trust in Edge-based Internet of Things Architectures: State of the art and Research Challenges”, The Third IEEE International Conference on Blockchain Computing and Applications (BCCA 2021) NOV 15 – NOV 17, 2021 – TARTU, ESTONIA, <http://intelligenttech.org/BCCA2021/Keynotes.php>
15. Invited talk “*Towards Community-Oriented Wearable Computing Systems: A Paradigm Shift to Monitor and Control Cooperative Groups of People based on Collectives of Wearables*” and Panelist at IEEE Health Summit, Oct. 2021.
16. Invited talk “*Wearable Computing Systems*” at 2021 IEEE SMC-HMS DHC Series Workshop on Internet of Minds (IoM) September 14, 2021
17. Keynote Speaker “Pushing Intelligence to the Edge of Internet of Things: A new Paradigm enabling Next-Generation Smart Systems of Systems” in the 2-Week Webinar/Workshop on Internet of Things and its related areas, being organised by Maharaja Agrasen Institute of Technology in collaboration with IEEE ComSoc Delhi Chapter during 17th August 2021.
18. Doctoral Short Course “*Wearable Computing Systems based on Body Sensor Networks: State-of-the-art and Future Research Challenges*”, host: Prof. Jie Jia. Northeastern University, Heping District, Shenyang, P. R. China, July 2021.
19. Invited Lecture “*Pushing Intelligence to the Edge of Internet of Things: A new Paradigm enabling Next-Generation Smart Systems of Systems*”, CAP4Lab Luxembourg, 2021.
20. Distinguished Lecture “*The SPINE Body-of-Knowledge for the systematic and full-fledged development of wearable computing systems based on body sensor networks*”, IEEE Sensor Council, New South Wales Section Chapter (Australia), SEN39, Co-sponsored by Prof. Subhas Mukhopadhyay.
21. Keynote “*Towards Community-Oriented Wearable Computing Systems: A Paradigm Shift to Monitor and Control Cooperative Groups of People based on Collectives of Wearables*”, IEEE CSCWD 2021, Dalian, May 2021.
22. Keynote “Agents meet the IoT: Towards Human-centric, Cognitive and Interoperable Ecosystems of Networked Smart Objects”, 5th conference on Big Data and Internet of Things. Rabat, Morocco on March 17-18 2021.
23. Keynote “Agents meet the IoT: Towards Human-centric, Cognitive and Interoperable Ecosystems of Networked Smart Objects”, ISM 2020 - International Conference on Industry 4.0 and Smart Manufacturing, Virtual Online Conference, 23-25 November 2020
24. Keynote “Towards Opportunistic IoT Services: A Novel Paradigm for Engineering the Next-generation IoT Systems”, Virtual International Conference on Futuristic Communication and Network Technologies (ICFCNT 2020). On-line conference. Nov. 6, 2020.
25. Keynote “Wearable Computing Systems based on Body Sensor Networks: State-of-the-art and Future Research Challenges” at 4th International Conference on Computer-Human Interaction Research and Applications (CHIRA), 5-6 November, 2020, Budapest, Hungary.
26. Invited Talk “Agents meet the IoT: Towards Human-centric, Cognitive and Interoperable Ecosystems of Networked Smart Objects”, in THE 5TH INTERNATIONAL ONLINE LECTURE SERIES OF SCHOOL OF SOFTWARE, NORTHWESTERN POLYTECHNICAL UNIVERSITY, Oct. 12-14, 2020 Xian, China
27. Invited Talk “Collaborative Body Sensor Networks as Enabling Technology for Implementing Social Distancing and Humans’ Tracking”, Shenzhen Institute for Advanced Technologies (Shenzhen, China), on-line seminar. 31 August 2020.
28. Invited Talk “Agents meet the IoT: Towards Cognitive and Interoperable Ecosystems of Networked Smart Objects”, Machine Intelligence Research Labs (MIR Labs) - International Webinar Series, Aug. 3 2020.
29. Invited Talk “Collaborative Body Sensor Networks as Enabling Technology for Implementing Social Distancing and Humans’ Tracking”, Distinguished speaker of an online lecture series organized by IEEE Computer Society Chapter of Green Univ of Bangladesh. Day-1: Smart Sensing and Remote Access to Address COVID-19 Challenges. Sunday 28 June 2020.
30. Keynote “Agents meet the IoT: Towards Cognitive and Interoperable Ecosystems of Networked Smart Objects”, ICDAM Conference, India, 18 June 2020.

31. Invited Talk “Wearable Computing Systems based on Body Sensor Networks: State-of-the-Art and Future Research Challenges” at IEEE Standards Association Webinars WAMIII Virtual Series, 2020. <https://standards.ieee.org/events/wamiii/virtual-talk-series-2020.html>
32. Keynote “From Modeling to Implementation of Cognitive and Wearable Computing Systems based on Body Sensor Networks: the SPINE project”, at 10th IEEE International Conference on Cognitive Infocommunications, 23-25 Oct 2019, Naples, Italy.
33. Invited Talk “Agents meet the IoT: Towards Cognitive and Interoperable Ecosystems of Networked Smart Objects”, at Tsinghua University, Beijing, China, Hosted by Prof. Zhao, Sep. 20 2019.
34. Invited Talk “From Modeling to Implementation of Cognitive and Wearable Computing Systems based on Body Sensor Networks: the SPINE project”, at Wuhan University of Science and Technology (China), Hosted by Prof. S. Wu, Sep. 20 2019.
35. Invited Talk “Towards Opportunistic IoT Services: A Novel Paradigm for Engineering the Next-generation IoT Systems”, at Huazhong University of Science and Technology (China), Hosted by Prof. M. Chen, Sep. 19 2019.
36. Invited Talk “Towards Opportunistic IoT Services: A Novel Paradigm for Engineering the Next-generation IoT Systems”, at ZUEL University, China. Hosted by Prof. Y. Zhang, Sep. 19 2019.
37. Lecture “A Reputation Capital and Blockchain-based Model to Support Group Formation Processes in the Internet of Things” at Wuhan University of Technology, Wuhan, China, Sep. 18 2018, hosted by Prof. W. Li.
38. Invited Talk “Towards Opportunistic IoT Services: A Novel Paradigm for Engineering the Next-generation IoT Systems”, at Huazhong Agriculture University (China), Hosted by Dr. L. Yang, Sep. 17 2019.
39. Invited Talk “Towards Opportunistic IoT Services: A Novel Paradigm for Engineering the Next-generation IoT Systems”, at Northeastern University, Boston (USA), Aug 2019.
40. Keynote “Towards Opportunistic IoT Services: A Novel Paradigm for Engineering the Next-generation IoT Systems”, at IEEE ICSNC 2019, Banff (Canada), May 2019.
41. Invited Talk “Agents meet the IoT: Towards Cognitive and Interoperable Ecosystems of Networked Smart Objects”, InsightCenter for Data Analytics, NUI Galway (Ireland), hosted by Dr. A. Intizar, Feb, 4 2019.
42. Invited Talk “IoT Platforms Interoperability: A Methodological Approach”, National University of Singapore (NUS), hosted by Dr. H. Ren, Jan 2019.
43. Invited Talk “IoT Platforms Interoperability: A Methodological Approach” Nanyang Technical University (NTU), Singapore, hosted by Prof. L. Xie, Jan 2019.
44. Keynote on “The Role of Trust in Internet of Things Ecosystems”, at IEEE WF-IoT 2019, Limerick (Ireland), Apr. 2019.
45. Talk on “Towards Multi-Layer Interoperability of IoT Platforms: the INTER-IoT approach” at WGF 2019 (What GRIDs for Future, What Future for GRIDs), Rende (CS), Italy, Dec 7 2018, sponsored by Italian Chapter of IEEE SMCS.
46. Coordinator of Panel on “Next-generation Internet-based Systems”, at IDCS Conference 2018, Tokyo (Japan), Oct 2018.
47. Keynote on “IoT Opportunistic Services: A Programming Paradigm for Next-generation IoT Systems” at IDCS Conference 2018, Tokyo (Japan), Oct 2018.
48. Keynote on “IoT Platforms Interoperability: A Methodological Approach” at IEEE PICOM 2018, Athens (Greece), Aug 2018.
49. Invited Talk “Towards Opportunistic IoT Services: A Novel Paradigm for Engineering the Next-generation IoT Systems”, Northwestern Polytechnical University (NPU), Xian, China, Jun 19 2018, hosted by Dr. Jianchao Luo.
50. Invited Talk “Agents meet the IoT: Towards Cognitive and Interoperable Ecosystems of Networked Smart Objects”, at School of Computer Science and Technology, Wuhan University of Technology, China. Hosted by Prof. W. Rao, Jul 2, 2018.
51. Lecture “Towards IoT Opportunistic Services: Models, Middleware and Use Cases” at Wuhan University of Technology, Wuhan, China, Jun 26 2018, hosted by Prof. W. Li.
52. Lecture “INTER-Meth: A Methodology for Heterogeneous IoT Platforms Integration” at Wuhan University of Technology, Wuhan, China, July 4 2018, hosted by Prof. W. Li.
53. Invited Talk “Agents meet the IoT: Towards Cognitive and Interoperable Ecosystems of Networked Smart Objects”, at C2SMART Distinguished Speaker Series. ZUEL University, China. Hosted by Prof. Y. Zhang, 28 Jun 2018.
54. Invited Talk “Research Directions in IEEE SMC TC on Interactive and Wearable Computing and Devices” at IEEE BoG Meeting and Workshop, Politecnico di Bari (Italy). Hosted by Prof. M.P. Fanti, 10 Jun 2018.
55. “Agents meet the IoT: Towards Cognitive and Interoperable Ecosystems of Networked Smart Objects”, at C2SMART Distinguished Speaker Series. New York University. Hosted by Prof. M Ghandehari, 13 Apr 2018.
56. “Agents meet the IoT: Towards Cognitive and Interoperable Ecosystems of Networked Smart Objects”, at University of Oulu, Faculty of Information Technology and Electrical Engineering, hosted by Prof. J. Riekkki (Faculty Dean), 22 Mar 2018.
57. “Cloud-assisted Body Area Networks: Towards Community Wearable Computing”, at National University of Singapore, Singapore, hosted by Dr. H. Ren, Feb 6 2018.

58. Invited Seminar on " Agents meet the IoT: Towards Ecosystems of Networked Smart Objects" at University of Cagliari (Italy), 23 Jan. 2018, hosted by Prof. F. Roli.
59. Lecture on "Towards Multi-Layer Interoperability of IoT Platforms: the INTER-IoT approach" at Univ. of Bologna (Cesena campus), Nov. 2017, host: Prof. M. Viroli.
60. "Cloud-assisted Body Area Networks: Towards Community Wearable Computing", at South Eastern University (Nanjing), China, hosted by Prof. Xiaoping Li, Jul 14 2017.
61. "Cloud-assisted Body Area Networks: Towards Community Wearable Computing", at Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China, hosted by Prof. Ye Li, June 28 2017.
62. "Towards Interoperable, Cognitive and Autonomic IoT Ecosystems: an Agent-based Approach", at Huazhong University of Science and Technology, Wuhan, China, July 2016, hosted by Prof. M. Chen
63. "Modeling Opportunistic IoT Services in Open IoT Ecosystems", at Huazhong University of Science and Technology, Wuhan, China, July 2016, hosted by Prof. M. Chen
64. "Towards Multi-Layer Interoperability of IoT Platforms: the INTER-IoT approach" at Maritime University of Shanghai (China), hosted by Dr. Xiuwen Fu, July 7 2017.
65. "Towards Interoperable, Cognitive and Autonomic IoT Ecosystems: an Agent-based Approach", Wuhan University of Technology, Wuhan, China, July 4 2017, hosted by Prof. W. Li.
66. "Modeling Opportunistic IoT Services in Open IoT Ecosystems", Wuhan University of Technology, Wuhan, China, July 11, 2017, hosted by Prof. W. Li.
67. "IoT platforms interoperability for Active and Assisted Living Healthcare services support", Wuhan University of Technology, Wuhan, China, July 18, 2017, hosted by Prof. W. Li.
68. Invited Talk on "Towards Interoperable, Cognitive and Autonomic IoT Ecosystems: an Agent-based Approach" at Data Science Center (DSC/e) (Eindhoven University of Technology), hosted by Prof. W. van der Aalst and Prof. Antonio Liotta, IoT Seminar Series.
69. Tutorial on "SPINE: Signal In-Node Processing", at Int'l Body Sensor Networks Conference (IEEE), Eindhoven (NL), May 9-12, 2017. Co-speaker: Raffaele Gravina.
70. Keynote at TRIDENTCOM 2017, 12th EAI International Conference on Testbeds and Research Infrastructures for the Development of Networks & Communities December 7–8, 2017 | WUHAN, PEOPLE'S REPUBLIC OF CHINA: <http://tridentcom.org/2017/show/keynotes>
71. Invited Seminar on "Towards Multi-Layer Interoperability of IoT Platforms: the INTER-IoT approach" at New Jersey Institute of Technology (USA), 12 Jan. 2017, hosted by Prof. M. Zhou.
72. Invited Seminar on " Agents meet the IoT: Towards Ecosystems of Networked Smart Objects" at New Jersey Institute of Technology (USA), 12 Jan. 2017, hosted by Prof. M. Zhou.
73. Panelist on "IoT Interoperability: Standards vs Voluntary Approaches" at IEEE CNCC 2017, 8 Jan. 2017, Las Vegas, USA.
74. Keynote on "Towards Multi-Layer Interoperability of IoT Platforms: the INTER-IoT approach" at Bodynets 2016, 15 Dec. 2016, Turin, Italy.
75. Keynote on "Towards Multi-Layer Interoperability of IoT Platforms: the INTER-IoT approach" at OMT 2016, 27 Oct. 2016, Rhodes, Greece.
76. Keynote on "Towards Multi-Layer Interoperability of IoT Platforms: the INTER-IoT approach" at IDCs 2016, 28 Sept. 2016, Wuhan, China.
77. Invited Talk on "Towards Multi-Layer Interoperability of IoT Platforms: the INTER-IoT approach" at University of Reggio Calabria (Italy), 24 Nov. 2016, hosted by Dr. G.M. Sarnè.
78. Invited Talk on "Cloud-based Activity-aaS Service Cyberphysical Framework for Human Activity Monitoring in Mobility ", Wuhan University of Technology, Wuhan, China, 26 Sept. 2016, hosted by Prof. W. Li.
79. Invited Talk on "Towards Interoperability of Heterogeneous IoT Platforms: the INTER-IoT approach", Zhongnan University of Economics and Law, Wuhan, China, 23 Sept. 2016, hosted by Prof. Y. Zhang.
80. Invited Talk on "Agent-oriented Modeling and Simulation of IoT Networks ", Wuhan University of Technology, Wuhan, China, 15 July 2016, hosted by Prof. W. Li.
81. Tutorial on "Agents meet the IoT: Towards Ecosystems of Networked Smart Objects (AgIoT)", 18th European Agent Systems Summer School (EASSS-2016) to be held at the University of Catania, Catania, Italy, 28 July 2016.
82. Invited Talk on "Cloud-assisted Body Area Networks: Towards Community Wearable Computing", Huazhong University of Science and Technology, Wuhan, China, 15 July 2016, hosted by Prof. M. Chen.
83. Invited Talk on "Cloud-assisted Body Area Networks: Towards Community Wearable Computing", University of Electronic Science and Technology of China, Chengdu, China, 8 July 2016, hosted by Prof. D. Chen.
84. Invited Talk on "Enabling IoT Interoperability through Opportunistic Mobile Multi-Technology Gateways", Wuhan University of Technology, Wuhan, China, 6 July 2016, hosted by Prof. W. Li.

85. Invited Talk on "Agents meet the IoT: Towards Ecosystems of Networked Smart Objects", Wuhan University of Technology, Wuhan, China, 5 July 2016, hosted by Prof. W. Li.
86. Invited Talk on "A Mission-Oriented Coordination Framework for Teams of Mobile Aerial and Terrestrial Smart Objects", Wuhan University of Technology, Wuhan, China, 4 July 2016, hosted by Prof. W. Li.
87. Invited Talk on "INTER-IoT: Toward Global Interoperability of Internet of Things Ecosystems", Wuhan University of Technology, Wuhan, China, 14 Oct. 2015, hosted by Prof. W. Li.
88. Invited Talk on "Towards a Development Methodology for Smart Object-Oriented IoT Systems: a Metamodel Approach", Wuhan University of Technology, Wuhan, China, 8 Oct. 2015, hosted by Prof. W. Li.
89. Invited Talk on "Autonomic and Cognitive Architectures for the Internet of Things", Wuhan University of Technology, Wuhan, China, 8 Oct. 2015, hosted by Prof. W. Li.
90. Invited Talk on "Middleware for Smart Objects in the Internet of Things", Wuhan University of Technology, Wuhan, China, 29 May. 2015, hosted by Prof. W. Li.
91. Invited Talk on "Empowering Smart Large-Environments through interoperable Sensor Network and IoT Enablers", Workshop on Smart Ports, Wuhan University of Technology, Wuhan, China, 27 May. 2015, hosted by Prof. W. Li.
92. Invited Talk on "Cloud-assisted Body Area Networks: The BodyCloud Project", Wuhan University of Technology, Wuhan, China, 23 May. 2015, hosted by Prof. W. Li.
93. Invited Talk on "From Embedded Computing Frameworks for Body Sensor Networks to Cloud-assisted Body Area Networks", Dalian University of Technology, Dalian, China, 24 May. 2015, hosted by Prof. Z. Wang.
94. Invited Talk on "From Embedded Computing Frameworks for Body Sensor Networks to Cloud-assisted Body Area Networks", Washington State University, Pullman, WA, USA, 2014, hosted by Dr. H. Gasezadeh.
95. Keynote on "From Embedded Computing Frameworks for Body Sensor Networks to Cloud-assisted Body Area Networks", EAI/ACM Int'l Conference Bodynets 2014, London, 1 Oct. 2014.
96. Invited Talk on "Autonomic Computing-based Wireless Sensor Networks", Wuhan University of Technology, Wuhan, China, 13 May. 2014, hosted by Prof. W. Li.
97. Invited Talk on "From Embedded Computing Frameworks for Body Sensor Networks to Cloud-assisted Body Sensor Networks", Univ. of Massachusetts (Boston), 27 Sept. 2013, Prof. J. Suzuki.
98. Invited Talk on "From Embedded Computing Frameworks for Body Sensor Networks to Cloud-assisted Body Sensor Networks", Wuhan University of Technology, Wuhan, China, 25 Oct. 2013, hosted by Prof. W. Li.
99. Invited Talk on "The SPINE framework: efficient programming of body sensor networks" at Univ. of Chile (Santiago), 2013, hosted by Prof. S. Ochoa.
100. Invited Talk on "Agents and Sensor Networks", University of GDansk, Jun. 2012, hosted by Dr. M. Ganzha.
101. Invited Talk on "Agents in Wireless Sensor Networks: issues and solutions", National Higher School of IT (ENSIAS), Rabat, Morocco, May 2012, hosted by Prof. M. Essaaidi.
102. Invited Seminar on "Agent-oriented Wireless Sensor Networks: State-of-the-art and Research Challenges", Technical University of Eindhoven (TU/e), Eindhoven, Netherlands, Apr. 2012, hosted by Prof. A. Liotta.
103. Invited Talk on "Agents in Wireless Sensor Networks: issues and solutions", Wuhan University of Technology, Wuhan, China, 24 May 2012, hosted by Prof. W. Li.
104. Talk on "C-SPINE: Collaborative Architecture for BSNs", WP4 Meeting of FP CONET Project, Rome (Italy), 2 May 2011.
105. Panel session on "Agents and Industry after 15 years from the birth of FIPA", speakers G. Fortino, F. Bergenti, D. Gotta, S. Venticinque, Workshop on Objects and Agents, Rende (CS), Italy, 6 Jul. 2011.
106. Invited Seminar on "Agent-based Frameworks for Distributed Computing: State-of-the-art and Research Challenges", University of Reading, UK, Sept. 2010, hosted by Dr. G. Di Fatta.
107. Talk on "SPINE2: task-oriented programming of wireless body area networks", 2nd Year General Meeting of FP CONET Project, Duisburg (Germany), 15 Nov 2010.
108. Invited Talk on "Agents and Sensor Networks", NATO Programme Security Through Science, Advanced Study Institute, "Software Agents, Agent Systems and their Applications", Tangiers, Morocco, Sept. 13-23, 2010.
109. Invited Talk on "An agent-based approach for the development of Wireless Body Sensor Network applications", University of Turin, Computer Science Dept., Turin (Italy), 29 Jun. 2010, Dr. M. Baldoni.
110. Panel session on "Next Generation Content Networks: trends and challenges", speakers G. Fortino, C. Mastroianni, M. Pathan, A. Vakali, 4th Int'l Workshop UPGRADE-CN'09, Munich, Germany, 9 Jun. 2009.
111. Panel session on "Computational Intelligence and Mobile Agents", organizer: Hani Hagrass, IEEE Symp. on Intelligent Agents 2009 @ IEEE SSCI 2009, Nashville, TN, USA, 30 March 2009.
112. Invited Talk on "A CASE tool-driven methodology for the simulation-based prototyping of distributed agent systems", Queensland University of Technology, Faculty of Science and Information Technology, Brisbane (Australia), 28 Sept. 2009, hosted by Prof. M. La Rosa.

113. Invited Talk on “Developing Next-Generation Content Distribution Networks and CDN-based Applications: experiences using emerging computing paradigms”, University of Melbourne, Computer Science and Software Engineering Dept., Melbourne (Australia), 1 Sept. 2009, hosted by Prof. R. Buyya.
114. Invited Talk on “Mobile Agents in Telecommunications”, Universidad Politecnica de Valencia, Dept. of Telecommunications, Valencia (Spain), 30 Apr. 2009, hosted by Prof. C. Palau.
115. Talk on “Simulation-driven Development of Multi-Agent Systems”, 4th Meeting of AOSE TFG, 13 Dec. 2006.
116. Invited Talk on “Statecharts-based Agents”, Doctoral School, 5th Workshop on Objects and Agents (WOA’06), Catania (Italy), Sept. 25, 2006.
117. Talk on “An Agent-based Approach for the management of distributed workflows”, 3rd Meeting of the AgentLink III European project, AOSE TFG, Budapest, 16 Sept. 2005.
118. Talk on “The COMODIN Project: obtained results and future work”, Universidad Politecnica de Valencia (Spain), 27 Jul. 2004, hosted by Prof. C. Palau.
119. Talk on “Provision of Cooperative Playbacks using a Content Distribution Network”, Universidad Politecnica de Valencia (Spain), 13 Sept. 2003, hosted by Prof. C. Palau.
120. Talk on “Cooperative Playback Systems: models, architectures and systems”, Universidad Politecnica de Valencia (Spain), 10 Jun. 2002, hosted by Prof. C. Palau.
121. Talk on “Completing Lossy Multicast Sessions using Auto Mobile Code”, ICSI Workshop 1997 on Auto Mobile Code, International Computer Science Institute, Berkeley (CA), USA, 23 Sep. 1997.

## PHD MENTORSHIP

He is/was (co)supervisor of the following PhD students:

- Samuele Mascillaro, “An agent-oriented methodology for the rapid prototyping of multi-agent systems”, 2006-2009. *Co-supervisor*
- Raffaele Gravina, “Domain-specific frameworks for programming Wireless Body Sensor Networks”, 2008-2011. *Supervisor*
- Antonio Guerrieri, “Building monitoring through wireless sensor networks”, 2008-2011. *Supervisor*
- Stefano Galzarano, “Techniques and methods for design and analysis of autonomic WSN systems”, 2010-2013. *Supervisor*
- Raffaele Conforti, “Run-time risk detection and mitigation in Workflow management system”, 2011-2014. *External Co-supervisor*. Main supervisor Marcello La Rosa, Queensland University of Technology, Australia.
- Antonio Augimeri, “Interaction among people through collaborative body sensor networks”, 2011. *External Co-supervisor*.
- Alessandro Sabato, “Structural health analyses based on Wireless Sensor Networks”, 2012-2014. *Supervisor*
- Xiuwen Fu, “Scale-free and Small-world based Methods for Complex Wireless Sensor Networks”, 2013-2016. *External Co-supervisor*. Main supervisor Prof. Wenfeng Li, Wuhan University of Technology, Wuhan, China.
- CongCong Ma, “Multi-Sensor Fusion in Body Sensor Networks”, 2014-on going. *External Co-supervisor*, main supervisor Prof. Wenfeng Li, Wuhan University of Technology, Wuhan, China.
- Claudio Savaglio, “Autonomic and Cognitive Development and Management of Internet of Things Systems”, 2014-2018. *Supervisor*
- Yun Luo, “Communication Reliability in Industrial IoT environments”, 2016-on-going, *Joint-PhD Co-supervisor* with Prof. Wenfeng Li, Wuhan University of Technology, Wuhan, China.
- Ying Duan, “Communication Reliability in Industrial IoT environments”, 2016-2019, *External Co-supervisor*. Main supervisor Prof. Wenfeng Li, Wuhan University of Technology, Wuhan, China.
- Ping Zhou, “Emotion Communication Systems”, 2016-on-going, *External supervisor, Main Supervisor* Prof. Min Chen, Huazhong University of Science and Technology, Wuhan, China.
- Evandro Macedo, “Trust-based IoT Networks and Systems”, 2020-on-going. *External supervisor, Main Supervisor* Prof. Luís Felipe Magalhães de Moraes, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.
- Abdullah Alsahly, “Deep Learning in Edge-based IoT Systems,” 2020-on-going, *External supervisor, Main Supervisor* Prof. Mohammad Mehdi Hassan, King Saudi University, Ryhad, Saudi Arabia.
- Claudia Greco, “AI-driven Pentesting Frameworks for IoT”, 2020-on-going. XXXVI cycle of PhD in ICT, DIMES.
- Mouad Rahmouni, “Internet of Things and AI for Smart Agriculture”, 2021-on-going, joint Phd co-supervised with Prof. Mounir Ghogho, International University of Rabat, Morocco.
- Vincenzo Barbuto, “Edge Intelligence: Methodologies, Frameworks and Algorithms”, 2022-on-going. XXXVIII cycle of PhD in ICT, DIMES. Co-supervised with Dr. Claudio Savaglio.
- Raza Afa, “Federated Learning in Radiomics”, 2022-on-going. XXXVIII cycle of PhD in ICT, DIMES. Co-supervised with Dr. Antonella Guzzo.



### **Foreign/External PHD Thesis Evaluator**

- Jorge Hortelano Otero, “Design and Implementation of Architectures for the Deployment of Secure Community Wireless Networks”. Advisors: Prof. Pietro Manzoni and Dr. Juan Carlos Cano Escribá. Universidad Politecnica de Valencia (Spain). 2010.
- Nejla Essaddi, “Target Mobility Schemes and Communication Models in WSNs”, Advisor: Prof. Nouredine Boudriga. Co-Advisor: Dr. Mohamed Hamdi. Higher School of Communication of Tunis, Tunisia. 2010.
- Chee Keong Ho, “Ultra Wideband Design Techniques for Wireless Medical Monitoring”, Advisor: Dr. Mehmet R. Yuce. Co-Advisor: Dr. Jamil Y. Khan. The University of Newcastle, Australia. 2011.
- José Cano Reyes, “Integrated Architecture for Configuration and Service Management in MANET Environments”, Advisors: Dr. Juan Carlos Cano Escribá and Dr. Carlos Tavares Calafate. Universidad Politecnica de Valencia (Spain). 2011.
- Vlado Menkovski. Computational inference and control of quality in multimedia services. Advisors: Prof. Antonio Liotta. TU/e (Netherlands). 2013.
- Declan T. Delaney. Serving Application Requirements in a Dynamic Wireless Sensor Network. Advisor: Prof. G. O'Hare. University College of Dublin (Ireland). 2014.
- Eman Mohammadi Nejad. “Simple and Complex Human Action Recognition in Constrained and Unconstrained Videos” Advisor: Dr. Jonathan Wu. University of Windsor. Feb 2018.
- Teemu Leppänen. “Resource-oriented Mobile Agent and Software Framework for the Internet of Things” Advisor: Prof. J. Rieki. University of Oulu (Finland), Mar 2018.
- Oscar Marcelo Zambrabo Vizuete, “Técnicas de Calidad Total aplicadas a los Sistemas de Gestión de Emergencias” Advisor: Prof. M. Esteve. Universitat Politecnica de Valencia (Spain). 2018.
- Zia Ush Shamszman, “A Social IoT Framework” Advisor: Dr. Ali M. Intizar. Insight Centre for Data analytics, NUI Galway. 2018.
- Yasir Saleem, “Social IoT-based Cross-Domain Application-to-Application Communications and Recommendation Services”, Advisors: Noel Crespi and Roberto Minerva, Service Architecture Lab, Wireless Networks and Multimedia Services Department, Institut Mines Telecom, Telecom SudParis, France. 2019 (expected)
- Muhammad Siddiqi, “Securing the Provenance of Wearable healthcare Sensing Data”, Advisor: Prof. Vijay Sivaraman, University of New South Wales in Sydney, Australia, 2019.
- Taiyang Wu, “Wearable and Implantable Sensor Systems with Energy Harvesting Techniques for IoT-Connected Healthcare Applications”, Advisor: Prof. Mehmet Yuce, Monash University, Melbourne, Australia, 2019.
- Amin Shahraki, “Network Management in Internet of Things: From Establishing to Analysing”, Advisor: Prof. Øystein Haugen, University of Oslo, Norway, 2020.
- Yixiang Lim, “Cognitive Human-Machine Interfaces and Interactions in Avionics System”, Advisor: Dr. Alex Gardi, RMIT University, Australia, 2021.
- Sandip Kumar Singh Modak, “A Framework Towards Enhancement in Multi-biometric System Based on Various Fusion Techniques”, Advisor: Dr. Vijay Kumar Jha, Birla Institute of Technology, MESRA: RANCHI, INDIA, 2021
- Pedro Luis González Ramírez, “Interconnection architecture of proximity smart IoE-Networks with centralized management, Advisor: Prof. Jaime Lloret, Valencia UPV, Spain, 2021.
- Dapeng Lan, “Service Orchestration and Resource Optimization for Fog-Cloud Computing”, Advisor: Prof. Øystein Haugen, University of Oslo, Norway, 2022.
- Kavindu Ranasinghe, “Intelligent Health and Mission Management Systems for Aerospace and Defence Applications”, Advisor: Dr. Alex Gardi, RMIT University, Australia, 2022.
- SHALINI LAKSHMI A J, “QoS/QoE AWARE CONTEXT SENSITIVE COMPUTATIONAL OFFLOADING IN HIERARCHICAL MULTI-CLOUD FRAMEWORK”, Advisor: Dr. M. VIJAYALAKSHMI, FACULTY OF INFORMATION AND COMMUNICATION ENGINEERING, ANNA UNIVERSITY, CHENNAI, India.

### **National and International Committees for the Evaluation of Professorship Positions**

He participated to several national and international committees for promotion of professors at assistant, associate and full position.

### **International Committees for Assessment of Research Project Proposals**

He was/is in the reviewing committees (as reviewer) of some project frameworks/calls of the following research councils to evaluate research project proposals: National Science Foundation (USA), European Research Council (EU), Canadian Research Council (Canada), COST - European Cooperation in Science and Technology (EU), Saudi Arabia Research Council (SA), ARRS-Slovenian Research Agency (Slovenia), Estonian Research Council (Estonia), FCT (Portugal), RCN (Norway).

## TEACHING ACTIVITY

He currently teaches several undergraduate and graduate level courses in the Computer Science at the University of Calabria: Fundamentals of Computer Science, Information Systems, Computing Systems, and Multimedia Systems. He also gave classes in Information and Communication Technology Masters, in Italy and abroad: wireless sensor networks, workflow management systems, mobile agents, and software engineering. He is very active in supervising graduating students in developing their bachelor and master degree theses.

Since academic year 2018-19, he is the (founder) *Director of the Postgraduate Master on INTER-IoT: Integrator and Manager of IoT Systems*, where he is also the teacher of the units: SM1.1 - Introduction to IoT Systems and SM2.2 - Integration of IoT systems through INTER-IoT.

He is also in the scientific-technical board and professor of the *the Postgraduate Master PERSEO on “Conservatore dei documenti digitali (Curator of Digital Documents)”* and of the *Postundergraduate Master on SPORTS ANALYTICS - Sport performance evaluation and optimization*

In particular, at University of Calabria, he taught the following courses.

Academic Year	Courses
2022/23	<ul style="list-style-type: none"> <li>- <i>IoT Sensor Device Programming Mod. 1 and IoT Systems (Programming IoT Systems – Module A)</i>, Master Level, Computer Engineering for IoT Degree Course.</li> <li>- <i>Computing systems architectures</i>, Bachelor Level, Electronics Engineering Degree Course.</li> <li>- <i>Computer Science and Elements of Medical Informatics, Master Level, Medicine and Digital Technologies Degree Course.</i></li> </ul>
2021/22	<ul style="list-style-type: none"> <li>- <i>IoT Sensor Device Programming Mod. 1 and IoT Systems (Programming IoT Systems – Module A)</i>, Master Level, Computer Engineering for IoT Degree Course.</li> <li>- <i>Computing systems architectures</i>, Bachelor Level, Electronics Engineering Degree Course.</li> <li>- <i>Computer Science and Elements of Medical Informatics, Master Level, Medicine and Digital Technologies Degree Course.</i></li> </ul>
2020/21	<ul style="list-style-type: none"> <li>- <i>IoT Systems (Programming IoT Systems – Module A)</i>, Master Level, Computer Engineering for IoT Degree Course.</li> <li>- <i>Programming IoT Systems (Module B: Wearable Computing)</i>, Master Level, Electronics Degree Course.</li> <li>- <i>Computing systems architectures</i>, Bachelor Level, Electronics Engineering Degree Course.</li> </ul>
2019/20	<ul style="list-style-type: none"> <li>- <i>Programming IoT Systems (module A: IoT Systems; module B: Wearable Computing)</i>, Master Level, Electronics/Computer Engineering Degree Courses.</li> <li>- <i>Computing systems architectures</i>, Bachelor Level, Electronics Engineering Degree Course.</li> <li>- <i>PhD Course: “From Modeling to Implementation of IoT Systems”</i>, co-teacher Dr. C. Savaglio, PhD in ICT, University of Calabria, Italy.</li> </ul>
2018/19	<ul style="list-style-type: none"> <li>- <i>Programming IoT Systems (module A: IoT Systems; module B: Wearable Computing)</i>, Master Level, Electronics/Computer Engineering Degree Courses.</li> <li>- <i>Computer Science</i>, Master Level, Political and Social Sciences Degree Course.</li> <li>- <i>PhD Course: “From Modeling to Implementation of IoT Systems”</i>, co-teacher Dr. C. Savaglio, PhD in ICT, University of Calabria, Italy.</li> </ul>
2017/18	<ul style="list-style-type: none"> <li>- <i>Programming Techniques for Embedded Systems and Sensor Networks</i>, Master and Bachelor Level, Electronics/Computer Engineering Degree Courses.</li> <li>- <i>Computer Programming Laboratory (Language C)</i>, Bachelor Level, Electronics Engineering Degree Course.</li> <li>- <i>Computer Science</i>, Master Level, Political and Social Sciences Degree Course.</li> </ul>
2016/17	<ul style="list-style-type: none"> <li>- <i>Programming Techniques for Embedded Systems and Sensor Networks</i>, Master and Bachelor Level, Electronics/Computer Engineering Degree Courses.</li> <li>- <i>Computer Programming Laboratory (Language C)</i>, Bachelor Level, Electronics Engineering Degree Course.</li> <li>- <i>Fundamentals of Computing Systems</i>, Bachelor Level, Social Sciences Degree Course.</li> <li>- <i>PhD Course: “From Modeling to Implementation of Wearable Computing Systems based on Body Sensor Networks”</i>, co-teacher Dr. R. Gravina, PhD in ICT, University of Calabria, Italy.</li> </ul>
2015/16	<ul style="list-style-type: none"> <li>- <i>Programming Techniques for Embedded Systems and Sensor Networks</i>, Master and Bachelor Level, Electronics/Computer Engineering Degree Courses.</li> <li>- <i>Computer Programming Laboratory (Language C)</i>, Bachelor Level, Electronics Engineering Degree Course.</li> <li>- <i>Fundamentals of Computing Systems</i>, Bachelor Level, Economics and Social Sciences Disciplines Degree Course.</li> </ul>
2014/15	<ul style="list-style-type: none"> <li>- <i>Programming Techniques for Embedded Systems and Sensor Networks</i>, Master and Bachelor Level, Electronics Engineering Degree Course.</li> <li>- <i>Fundamentals of Computing Systems</i>, Bachelor Level, Economics and Social Sciences Disciplines Degree Course.</li> </ul>

2013/14	<ul style="list-style-type: none"> <li>- <i>Advanced Computing Systems</i>, II module “Multimedia and Multi-sensorial Systems”. Master Level, Computer Engineering Degree Course.</li> <li>- <i>Fundamentals of Computing Systems</i>, Bachelor Level, Economics and Social Sciences Disciplines Degree Course.</li> <li>- <i>Informatics Systems for Tourism</i>, Master Level, Touristic Sciences Degree Course.</li> </ul>
2012/13	<ul style="list-style-type: none"> <li>- <i>Fundamentals of Multimedia Systems</i>, Master Level, Computer Engineering Degree Course, Faculty of Engineering.</li> <li>- <i>Workflow Management Systems: process management and mining</i>, Master Level, Statistics and Computer Science for Economics and Finance Degree Course, Faculty of Economics.</li> <li>- <i>Fundamentals of Computing Systems</i>, Bachelor Level, Economics and Social Sciences Disciplines Degree Course, Faculty of Economics.</li> <li>- <i>Informatics Systems for Tourism</i>, Master Level, Touristic Sciences Degree Course, Faculty of Economics.</li> </ul>
2011/12	<ul style="list-style-type: none"> <li>- <i>Fundamentals of Multimedia Systems</i>, Master Level, Computer Engineering Degree Course, Faculty of Engineering.</li> <li>- <i>Informatics for Business</i>, Bachelor Level, Applied Economics Degree Course, Faculty of Economics.</li> <li>- <i>Fundamentals of Computing Systems</i>, Bachelor Level, Economics and Social Sciences Disciplines Degree Course, Faculty of Economics.</li> <li>- <i>Informatics Systems for Tourism</i>, Master Level, Touristic Sciences Degree Course, Faculty of Economics.</li> </ul>
2010/11	<ul style="list-style-type: none"> <li>- <i>Management of Multimedia Data on Internet</i>, Master Level, Computer Engineering Degree Course, Faculty of Engineering.</li> <li>- <i>Programming Wireless Sensor Networks and Workflow Management Systems</i>, Fundamental Formative Seminars (3 hours each), Master Level, Computer Engineering Degree Course, Faculty of Engineering.</li> <li>- <i>Computing Systems</i>, Master Level, Statistics and Computer Science for Economics and Finance Degree Course, Faculty of Economics.</li> <li>- <i>Informatics for Development</i>, Master Level, Economics and Social Sciences Disciplines Degree Course, Faculty of Economics.</li> <li>- <i>Fundamentals of Computing Systems</i>, Bachelor Level, Economics and Social Sciences Disciplines Degree Course, Faculty of Economics.</li> </ul>
2009/10	<ul style="list-style-type: none"> <li>- <i>Management of Multimedia Data on Internet</i>, Master Level, Computer Engineering Degree Course, Faculty of Engineering.</li> <li>- <i>Programming Wireless Sensor Networks and Workflow Management Systems</i>, Fundamental Formative Seminars (3 hours each), Master Level, Computer Engineering Degree Course, Faculty of Engineering.</li> <li>- <i>Computing Systems 1</i>, Bachelor Level, Quantitative Methods for Economics and Management Degree Course, Faculty of Economics.</li> <li>- <i>Fundamentals of Computing Systems</i>, Bachelor Level, Economics and Social Sciences Disciplines Degree Course, Faculty of Economics.</li> </ul>
2008/09	<ul style="list-style-type: none"> <li>- <i>Management of Multimedia Data on Internet</i>, Master Level, Computer Engineering Degree Course, Faculty of Engineering.</li> <li>- <i>Programming Wireless Sensor Networks</i>, Fundamental Formative Seminars (3 hours each), Master Level, Computer Engineering Degree Course, Faculty of Engineering.</li> <li>- <i>Computing Systems 1</i>, Bachelor Level, Quantitative Methods for Economics and Management Degree Course, Faculty of Economics.</li> <li>- <i>Computing Systems 2</i>, Bachelor Level, Quantitative Methods for Economics and Management Degree Course, Faculty of Economics.</li> <li>- <i>IT Laboratory</i>, Quantitative Methods for Economics and Management Degree Course, Faculty of Economics.</li> <li>- <i>Fundamentals of Computing Science and IT Laboratory</i>, Bachelor Level, Economics and Social Sciences Disciplines Degree Course, Faculty of Economics.</li> <li>- <i>Information Systems</i>, Bachelor Level, Economics and Social Sciences Disciplines Degree Course, Faculty of Economics.</li> </ul>
2007/08	<ul style="list-style-type: none"> <li>- <i>Management of Multimedia Data on Internet</i>, Master Level, Computer Engineering Degree Course, Faculty of Engineering.</li> <li>- <i>Programming Wireless Sensor Networks</i>, Fundamental Formative Seminars (3 hours each), Master Level, Computer Engineering Degree Course, Faculty of Engineering.</li> <li>- <i>Computing Systems 1</i>, Bachelor Level, Quantitative Methods for Economics and Management Degree Course, Faculty of Economics.</li> <li>- <i>Computing Systems 2</i>, Bachelor Level, Quantitative Methods for Economics and Management Degree Course, Faculty of Economics.</li> <li>- <i>IT Laboratory</i>, Quantitative Methods for Economics and Management Degree Course, Faculty of Economics.</li> <li>- <i>Fundamentals of Computing Science and IT Laboratory</i>, Bachelor Level, Economics and Social Sciences Disciplines Degree Course, Faculty of Economics.</li> <li>- <i>Information Systems</i>, Bachelor Level, Economics and Social Sciences Disciplines Degree Course, Faculty of Economics.</li> </ul>
2006/07	<ul style="list-style-type: none"> <li>- <i>Management of Multimedia Data on Internet</i>, Master Level, Computer Engineering Degree Course, Faculty of Engineering.</li> <li>- <i>Computing Systems 1</i>, Bachelor Level, Quantitative Methods for Economics and Management Degree Course, Faculty of Economics.</li> </ul>



1999/2000	- Teaching assistant of <i>Fundamentals of Computer Programming</i> , Master Level, Engineering Degree Courses, Faculty of Engineering. - <i>Seminars on Computing Systems</i> , Master Level, Computer Engineering Degree Course, Faculty of Engineering.
1998/99	- Teaching assistant of <i>Fundamentals of Computer Programming</i> , Master Level, Engineering Degree Courses, Faculty of Engineering. - <i>Seminars on Computing Systems</i> , Master Level, Computer Engineering Degree Course, Faculty of Engineering.
1997/98	- Teaching assistant of <i>Fundamentals of Computer Programming</i> , Master Level, Engineering Degree Courses, Faculty of Engineering. - <i>Seminars on Computing Systems</i> , Master Level, Computer Engineering Degree Course, Faculty of Engineering.

Moreover, he taught the following courses (Master and PhD level) in international Institutions:

Date	Courses
Feb, 2019	“Wireless Sensor Network Systems and Applications”, <i>Master en tecnologias sistema y redes de comunicacion</i> ”, Department of Communications, Universidad Politecnica de Valencia (Spain).
Mar, 2018	“Wireless Sensor Network Systems and Applications”, <i>Master en tecnologias sistema y redes de comunicacion</i> ”, Department of Communications, Universidad Politecnica de Valencia (Spain).
Jun, 2017	“Wireless Sensor Network Systems and Applications”, School of Logistics Engineering, Wuhan University of Technology, China.
Apr, 2017	“Wireless Sensor Network Systems and Applications”, <i>Master en tecnologias sistema y redes de comunicacion</i> ”, Department of Communications, Universidad Politecnica de Valencia (Spain).
Jan, 2017	“From Modeling to Implementation of Wearable Computing Systems based on Body Sensor Networks”, co-teacher Dr. R. Gravina, PhD in ICT, University of Calabria, Italy.
Apr, 2016	“Wireless Sensor Network Systems and Applications”, <i>Master en tecnologias sistema y redes de comunicacion</i> ”, Department of Communications, Universidad Politecnica de Valencia (Spain).
Jun, 2015	“Mobile agents and their applications in Sensor Networks”, School of Logistics Engineering, Wuhan University of Technology, China.
Feb, 2015	“Wireless Sensor Network Systems and Applications”, <i>Master en tecnologias sistema y redes de comunicacion</i> ”, Department of Communications, Universidad Politecnica de Valencia (Spain).
Mar, 2014	“Mobile agents and their applications in Telecommunications”, <i>Master en tecnologias sistema y redes de comunicacion</i> ”, Department of Communications, Universidad Politecnica de Valencia (Spain).
Apr, 16-18, 2013	“Mobile agents and their applications in Telecommunications”, <i>Master en tecnologias sistema y redes de comunicacion</i> ”, Department of Communications, Universidad Politecnica de Valencia (Spain).
Mar, 26-28, 2012	“Mobile agents and their applications in Telecommunications”, <i>Master en tecnologias sistema y redes de comunicacion</i> ”, Department of Communications, Universidad Politecnica de Valencia (Spain).
Mar, 7-9, 2011	“Mobile agents and their applications in Telecommunications”, <i>Master en tecnologias sistema y redes de comunicacion</i> ”, Department of Communications, Universidad Politecnica de Valencia (Spain).
Apr, 26-27, 2010	“Mobile agents and their applications in Telecommunications”, <i>Master en tecnologias sistema y redes de comunicacion</i> ”, Department of Communications, Universidad Politecnica de Valencia (Spain).
Apr, 27-29, 2009	“Mobile agents and their applications in Telecommunications”, <i>Master en tecnologias sistema y redes de comunicacion</i> ”, Department of Communications, Universidad Politecnica de Valencia (Spain).

## INTERNATIONALIZATION ACTIVITY

He was/is very active in promoting the establishment of teaching/research agreements between University of Calabria and foreign international Universities. Since January 2020 he is the Unical Rector's Delegate for International Actions involving EU countries and for Institutional Relations with China and Australia. In the following, the promoted signed agreements are listed and commented.

University	Agreement Type	Years
Queensland University of Technology (QUT), Brisbane, Australia	- General Framework Agreement - Student Exchange Agreement - Joint PhD Agreement	2009-2012
TU/e, Eindhoven, The Netherlands	- Erasmus Agreement - General Framework Agreement - Joint PhD Agreement	2010-2013
Universitat Politecnica de Valencia, Valencia, Spain	- Erasmus Agreement	2002-2013
University of Reading, UK	- Erasmus Agreement - General Framework Agreement with UNICAL Faculty of Engineering for Research Master Students Exchange	2010-2013
UT Dallas, USA	- General Framework Agreement with UNICAL Faculty of Engineering for Research Master Students Exchange	2011
WSN Lab Berkeley, USA	- General Framework Agreement with UNICAL Faculty of Engineering for Research Master Students Exchange	2007-2010
Technical University of Berlin, Germany	- One-off Agreement for MSc-level Research Thesis	2010
Wuhan University of Technology, Wuhan City, China	- General Framework Agreement - Joint Lab on IoT Technologies - Dual Degree – Jan 2022	2011-2015 renewed till 2023
University of Craiova, Craiova, Romania	- Erasmus Agreement	2011-2013
Warsaw Management University, Warsaw, Poland	- Erasmus Agreement	2011-2013
University of Gdask, Gdansk, Poland	- Erasmus Agreement	2011-2013
University College of Dublin, Dublin, Ireland	- Erasmus Placement Agreement	2010-2011
Universidad Autonoma de Madrid	- Erasmus Placement Agreement	2012-
National Higher School of IT (ENSIAS) - Mohamed 5 Souissi University, Rabat, Morocco	- General Framework Agreement	2012-
Abdelmalek Essaadi University, Tetuan, Morocco	- General Framework Agreement	2011-
University of Chile, Santiago, Chile	- General Framework Agreement	2013-
Washington State University, Pullman, USA	- General Framework Agreement	2015-
Technical University of Compiègne, France	- Erasmus+ Agreement	2015-

University of Koblenz, Germany	- Erasmus+ Agreement	2015-
Bochum University of Applied Sciences, Germany	- Erasmus+ Agreement	2017-
National Research University of Electronic Technology – MIET, Russia	- General Framework Agreement - Dual-degree (in itinere)	2017 -
Coimbra Institute of Engineering, Portugal	- General Framework Agreement - Dual-degree (agreement in itinere)	Agreement in itinere
Shanghai Maritime University (China)	- General Framework Agreement - Joint Lab on IoT Technologies oriented Smart Port	Nov. 2017-
Carleton University (Canada)	- General Framework Agreement - Joint-PhD (upon request)	Jan 2018 -
Institut Mines-Telecom (France)	- Erasmus+ Agreement - Dual-degree (agreement signed on Mar 2020) - Joint-PhD (agreement in itinere)	Mar 2018 -
University of Derby (UK)	- Erasmus+ Agreement	2018 -
University of Oulu (Finland)	- Erasmus+ Agreement - Dual-degree (agreement in itinere)	Mar 2018 -
Ecole Nationale d'Ingénieurs de Brest (ENIB), France	- Erasmus+ Agreement	Apr 2018 -
“GHEORGHE ASACHI” TECHNICAL UNIVERSITY OF IASI, Romania	- Erasmus+ Agreement	May 2018 -
Shenzhen Institute for Advanced Technologies (SIAT), China	- One-off Agreement for MSc-level Research Thesis	Jun 2018
New York University (USA)	- One-off Agreement for MSc-level Research Thesis	Jul 2018
Linköping University, Sweden	- Erasmus+ Agreement	Dec 2018-
Northeastern University Boston (USA)	- General Framework Agreement	May 2019-
Huazhong Agriculture University (China)	- General Framework Agreement - Joint Lab on IoT Technologies oriented to Smart Agriculture	Nov. 2019-
Nanjing Tech University (China)	- General Framework Agreement	Nov. 2019-
Universidade Federal de Rio de Janeiro (Brazil)	- General Framework Agreement	July 2020-
Green University of Bangladesh (Dhaka, Bangladesh)	- General Framework Agreement	August 2020-
Nanyang Institute of Technology	- General Framework Agreement - Joint Lab on IoT Technologies	Sept. 2020-
GIET University, Gunupur-765022, Odisha, India	- General Framework Agreement	Feb 2021-
Vellore Institute of Technology	- General Framework Agreement	Mar 2021
International University of Rabat, Morocco	- Dual PhD	Dec 2021
Pontificia Universidad Javeriana - Bogotá, Colombia	- General Framework Agreement	Gen 2022
City University – Malaysia	- General Framework Agreement	Jun 2022
Al-Azhar University – Gaza, Palestine	- General Framework Agreement	Dec 2022

## PUBLICATIONS

### International Journals

- |      |   | Indexing |
|------|---|----------|
| [1]  | G. Fortino, D. Grimaldi, L. Nigro, "Multicast Control of Mobile Measurement Systems", in <i>IEEE Transactions on Instrumentation and Measurements</i> , vol.47, n. 21, pp.1149-1154, IEEE Instrumentation and Measurement Society, Piscataway (NJ), USA, Oct. 1998.   | ISI      |
| [2]  | G. Fortino, L. Nigro, "Development of Virtual Data Acquisition Systems based on Multimedia Internetworking", in <i>Computer Standards &amp; Interfaces</i> , vol. 21, pp. 429-440, Elsevier, Amsterdam, The Netherlands, 1999.  | ISI      |
| [3]  | G. Fortino, L. Nigro, "ViCRO: an interactive and cooperative videorecording on demand system over Internet Mbone", in <i>Informatica – an international journal of computing and informatics</i> , vol. 24, n.1, pp.97-105, Mar. 2000.  | SCOPUS   |
| [4]  | G. Fortino, L. Nigro, "A Toolset in Java2 for Modeling, Prototyping and Implementing Communicating Real-Time State Machines", in <i>Microprocessors and Microsystems</i> , Vol. 23, n.10, pp. 573-586, Elsevier, Amsterdam, The Netherlands, Mar. 2000.   | ISI      |
| [5]  | G. Fortino, W. Russo, "The Virtual Video Gallery: a user-centred media on-demand system", in <i>Journal of Interactive Technology and Smart Education</i> , Vol. 1, n. 1, pp.29-40, Feb. 2004.  | Inspec   |
| [6]  | G. Fortino, W. Russo, E. Zimeo, "A Statecharts-based Software Development Process for Mobile Agents", in <i>Information and Software Technology</i> , Vol. 46, n. 13, pp. 907-921, Elsevier, Amsterdam, The Netherlands, Oct. 2004.   | ISI      |
| [7]  | G. Fortino, A. Garro, W. Russo, "Modelling and Analysis of Agent-Based Electronic Marketplaces", in <i>IPSI Transactions on Internet Research</i> , Vol.1, n.1, pp. 24-33, Jan. 2005.   | N/A      |
| [8]  | G. Fortino, C. Mastroianni, W. Russo, "Cooperative Control of Multicast-based Streaming On-Demand Systems", in <i>Future Generation Computer Systems The International Journal of Grid Computing: Theory, Methods and Applications</i> , Vol. 21, n. 5, pp. 823-839, Elsevier, Amsterdam, The Netherlands, May 2005.  | ISI      |
| [9]  | G. Fortino, A. Garro, W. Russo, "An Integrated Approach for the Development and Validation of Multi Agent Systems", in <i>Computer Systems Science &amp; Engineering</i> , Vol. 20, n. 4, pp. 94-107, CRL Publishing Ltd., Leicester (UK), Jul. 2005.   | ISI      |
| [10] | M. Esteve, G. Fortino, B. Molina, C. Palau, "A Streaming Content Distribution Network for e-Learning", in <i>International Journal of Interactive Technology and Smart Education, special issue on Streaming Content Distribution Networks for e-Learning and e-Entertainment</i> , 3(1), pp. 9-20, 2006.   | Inspec   |
| [11] | G. Fortino, C. Palau, W. Russo, "Collaborative Control of Media Playbacks in SCDNs", in <i>International Journal of Interactive Technology and Smart Education, special issue on Streaming Content Distribution Networks for e-Learning and e-Entertainment</i> , Vol. 3, n. 1, pp. 21-30, 2006.  | Inspec   |
| [12] | G. Fortino, W. Russo, C. Mastroianni, C.E. Palau, M. Esteve, "CDN-supported Collaborative Media Streaming Control" <i>IEEE Multimedia Magazine</i> , 14(2), pp. 60-71, 2007.  | ISI      |
| [13] | G. Fortino, A. Garro, W. Russo, "Achieving Mobile Agent Systems Interoperability through Software Layering" In <i>Information and Software Technology, Elsevier</i> , 50(4), pp. 322-341, 2008.   | ISI      |
| [14] | G. Fortino, W. Russo, "Using P2P, GRID and Agent Technologies for the Development of Content Distribution Networks" in <i>Future Generation Computer Systems The International Journal of Grid Computing: Theory, Methods and Applications, special issue on Enhancing Content Networks with P2P, GRID and Agent Technologies</i> (G. Fortino and C. Mastroianni, eds), 24(3), pp. 180-190. Elsevier, Amsterdam, The Netherlands, 2008. | ISI      |
| [15] | M. Cossentino, G. Fortino, A. Garro, S. Mascillaro, W. Russo, "PASSIM: A Simulation-based Process for the Development of Multi-Agent Systems" in <i>International Journal on Agent Oriented Software Engineering, special issue on Multi-Agent Systems and Simulation</i> (M. Cossentino, G. Fortino, and W. Russo, eds), Inderscience, 2(2), pp. 132-170, 2008.  | SCOPUS   |



- [16] G. Fortino, C. Mastroianni, W. Russo, "A Hierarchical Control Protocol for Group-Oriented Playbacks Supported by Content Distribution Networks," *Journal of Network and Computer Applications, Elsevier* 32(1), pp. 135-157, 2009. ISI
- [17] G. Fortino, A. Garro, S. Mascillaro, W. Russo, "Using Event-driven Lightweight DSC-based Agents for MAS Modeling," in the special issue "Best of From Agent Theory to Agent Implementation 6 (AT2AI-6)", *International Journal on Agent Oriented Software Engineering (Inderscience)*, 4(2), 2010. SCOPUS
- [18] G. Fortino, S. Galzarano, R. Giannantonio, R. Gravina, A. Guerrieri, "SPINE-based Application Development on Heterogeneous Wireless Body Sensor Networks". *International Journal of Computing*, 9(1), p. 80-89, 2010. ISSN: 1727-6209. N/A
- [19] F. Aiello, G. Fortino, R. Gravina, A. Guerrieri, "A Java-based Agent Platform for Programming Wireless Sensor Networks" *The Computer Journal*, 54(3), pp.439-454, 2011. doi: 10.1093/comjnl/bxq019. ISI
- [20] F. Bellifemine, G. Fortino, R. Giannantonio, R. Gravina, A. Guerrieri, M. Sgroi, "SPINE: A domain-specific framework for rapid prototyping of WBSN applications" *Software Practice and Experience*, 41(3), 2011, pp. 237-265. Wiley. DOI:10.1002/spe. ISI
- [21] F. Aiello, F. Bellifemine, S. Galzarano, R. Gravina, and G. Fortino "An agent-based signal processing in-node environment for real-time human activity monitoring based on wireless body sensor networks". *Journal of Engineering Applications of Artificial Intelligence*, 24(7), pp. 1147-1161, 2011. Elsevier. DOI: 10.1016/j.engappai.2011.06.007 ISI
- [22] F. Aiello, G. Fortino, S. Galzarano, R. Gravina, A. Guerrieri, "An Analysis of Java-based Mobile Agent Platforms for Wireless Sensor Networks". *Multi-Agent and Grid Systems Journal, Vol. 7(6)*, pp. 243-267, IOS Press. 2011. DOI: 10.3233/MGS-2011-0175 SCOPUS
- [23] S. Galzarano, G. Fortino, A. Liotta, "A Task-based Architecture for Autonomic Body Sensor Networks", *International Transactions on Systems Science and Applications, Vol. 7, No. 1/2, November 2011*, pp. 140-151 (ISSN 1751-1461). N/A
- [24] C. T. Calafate, G. Fortino, S. Fritsch, J. Monteiro, J-C. Cano, P. Manzoni "An efficient and robust content delivery solution for IEEE 802.11p vehicular environments", *Journal of Network and Computer Applications*, 35(2), 753-762, Elsevier, 2012. DOI: 10.1016/j.jnca.2011.11.008. ISI
- [25] N. Raveendranathan, S. Galzarano, V. Loseu, R. Gravina, R. Giannantonio, M. Sgroi, R. Jafari, G. Fortino, "From Modeling to Implementation of Virtual Sensors in Body Sensor Networks". *IEEE Sensors Journal*, 12(3), 583-593, 2012. DOI:10.1109/JSEN.2011.2121059. ISI
- [26] G. Fortino and W. Russo, "ELDAMeth: An Agent-oriented Methodology For Simulation-based Prototyping of Distributed Agent Systems". *Information and Software Technology*, 54(6), 608-624, 2012. DOI: 10.1016/j.infsof.2011.08.006. ISI
- [27] G. Fortino and F. Rango, "An Application-level Technique based on Recursive Hierarchical State Machines for Agent Execution State Capture", *Science of Computer Programming*, 78(6), pp. 725-746, Jun. 2013. DOI:10.1016/j.scico.2011.10.001. ISI
- [28] G. Fortino, F. Rango, W. Russo, "Engineering Multi-Agent Systems through Statecharts-based JADE agents and tools". in *Transactions on Computational Collective Intelligence, Vol. LNCS 7270, n. VII*, pp. 61-81, Springer, 2012. SCOPUS
- [29] G. Fortino, A. Guerrieri, "Decentralized Management of Building Indoors through Embedded Software Agents," *Computer Science and Information Systems (ComSIS) The international journal published by ComSIS Consortium, Vol. 9, N. 3, 1331-1359. DOI:10.2298/CSIS120101030F. 2012.* ISI
- [30] A. Guerrieri, G. Fortino, A. Ruzzelli, G. O'Hare, "A Flexible Building Management Framework based on Wireless Sensor and Actuator Networks", *Journal of Network and Computer Applications, Elsevier*, 35(6), 1934-1952. 2012. DOI:10.1016/j.jnca.2012.07.016. ISI
- [31] G. Fortino, R. Giannantonio, R. Gravina, P. Kuryloski, R. Jafari, "Enabling Effective Programming and Flexible Management of Efficient Body Sensor Network Applications", *IEEE Transactions on Human-Machine Systems*, vol. 43, no. 1, pp. 115-133, Jan. 2013. DOI: 10.1109/TSMCC.2012.2215852 ISI

(from Web of Science Core Collection) **Highly Cited Paper: As of December 2018, this highly cited paper received enough citations to place it in the top 1% of the academic field of Engineering based on a highly cited threshold for the field and publication year.**

- [32] G. Fortino, W. Russo, M. Vaccaro, "An agent-based approach for the design and analysis of content delivery networks," *Journal of Network and Computer Applications*, Vol. 37, January 2014, pp. 127-145, doi:10.1016/j.jnca.2012.11.005. ISI
- [33] G. Di Fatta, F. Blasa, S. Cafiero, G. Fortino, "Fault Tolerant Decentralized K-Means Clustering for Asynchronous Large-Scale Networks", *Journal of Parallel and Distributed Computing*, 75(3), pp. 317-329, Mar. 2013. DOI: 10.1016/j.jpdc.2012.09.009. ISI
- [34] G. Fortino, M. North, "Simulation-Based Development and Validation of Multi-Agent Systems: AOSE and ABMS Approaches", *Journal of Simulation*, 7(3), pp.137-143, 2013. DOI:10.1057/jos.2013.12. ISI
- [35] Raffaele Conforti, Marcello La Rosa, Giancarlo Fortino, Arthur H.M. ter Hofstede, Jan Recker, "Real-Time Risk Monitoring in Business Processes: A Sensor-based Approach," *Journal of Systems and Software*, 86(11), pp. 2939-2965, Nov. 2013. DOI: 10.1016/j.jss.2013.07.024. ISI
- [36] G. Fortino, D. Parisi, V. Pirrone, G. Di Fatta, "BodyCloud: A SaaS Approach for Community Body Sensor Networks," *Future Generation Computer Systems*. Vol. 35, June 2014, pp. 62-79, doi:10.1016/j.future.2013.12.015. ISI

**Among the Most Cited Future Generation Computer Systems Articles - The most cited articles published since 2012, extracted from Scopus: <https://www.journals.elsevier.com/future-generation-computer-systems/most-cited-articles>**

- [37] G. Fortino, G. Di Fatta, M. Pathan, A. Vasilakos, "Cloud-Assisted Body Area Networks: State-of-the-art and Future Research Challenges", *Wireless Networks*, Volume 20, Issue 7, October 2014, pp. 1925-1938. doi: 10.1007/s11276-014-0714-1. ISI
- [38] G. Fortino, S. Galzarano, R. Gravina, W. Li, "A framework for collaborative computing and multi-sensor data fusion in body sensor networks", *Information Fusion*, Vol. 22, March 2015, pp. 50-70, doi:10.1016/j.inffus.2014.03.005. ISI

(from Web of Science Core Collection) **Highly Cited Paper: As of August 2020, this highly cited paper received enough citations to place it in the top 1% of the academic field of Engineering based on a highly cited threshold for the field and publication year.**

- [39] Ghasemzadeh, H.; Panuccio, P.; Trovato, S.; Fortino, G.; Jafari, R., "Power-Aware Activity Monitoring Using Distributed Wearable Sensors," *IEEE Transactions on Human-Machine Systems*, vol.44, no.4, pp.537-544, Aug. 2014. doi: 10.1109/THMS.2014.2320277 ISI
- [40] Valeria Loscri, Cesar Marchal, Nathalie Mitton, Giancarlo Fortino, Athanasios V. Vasilakos, "Security and Privacy in Molecular Communication and Networking: Opportunities and Challenges," in *IEEE Transactions on Nanobioscience*, vol.13, no.3, pp.198-207, Sept. 2014, doi: 10.1109/TNB.2014.2349111. ISI
- [41] S. Galzarano, R. Giannantonio, A. Liotta, G. Fortino, "A task-oriented framework for networked wearable computing", in *IEEE Transactions on Automation Science and Engineering*, 13(2): 621-638 (2016), doi:10.1109/TASE.2014.2365880 ISI
- [42] W. Li, X. Fu, G. Fortino, P. Pace, G. Aloï, W.Russo, "A Utility-Oriented Routing Scheme for Interest-Driven Community-Based Opportunistic Networks," *Journal of Universal Computer Science*, vol. 20, no. 13 (2014), 1829-1854. ISI
- [43] P. Carreño, F. Gutierrez, S. F. Ochoa, and G. Fortino, "Supporting personal security using participatory sensing ", *Concurrency Computation Practice and Experience*, 27(10), pp. 2531-2546, 2015. ISI
- [44] G. Fortino, F. Rango, W. Russo, C. Santoro, "Translation of Statechart Agents into a BDI Framework for MAS Engineering", *Journal of Engineering Applications of Artificial Intelligence*. 41, pp. 287-297, 2015. ISI
- [45] Valeria Loscri, Anna Maria Vegni, Giancarlo Fortino, "On the Interaction between a Nanoparticulate System and the Human Body in Body Area Nanonetworks," *Micromachines*, 6(9), 1213-1235; doi:10.3390/mi6091213. ISI

- [46] O. Zedrada, H. Seridi, N. Jouandeau, and G. Fortino, "An Energy-Aware Algorithm for Large Scale Foraging Systems," *Scalable Computing: Practice and Experience*, Vol 16, No. 4, 2015. ISI
- [47] Peter X. Liu; Giancarlo Fortino; Mehmet Rasit Yuce; Dongyi Chen, "New SMCS Technical Committee on Interactive and Wearable Computing and Devices [Society News], *IEEE Systems, Man, and Cybernetics Magazine*, Year: 2015, Volume: 1, Issue: 3, Pages: 70 - 72, DOI: 10.1109/MSMC.2015.2483034
- [48] G. Smart, N. Deligiannis, R. Surace, V. Loscri, G. Fortino, and Y. Andreopoulos, "Decentralized Time-Synchronized Channel Swapping for Wireless Sensor Networks", in *IEEE Trans. on Vehicular Technology*. 65(10), pp. 8538-8553, 2016. doi: 10.1109/TVT.2015.2509861 ISI
- [49] R. Gravina and G. Fortino, "Automatic methods for the detection of accelerative cardiac defense response", in *IEEE Transactions on Affective Computing*, 7(3), pp. 286-298, 2016. doi: 10.1109/TAFFC.2016.2515094 ISI
- [50] Loizos Kanaris, Akis Kokkinis, Giancarlo Fortino, Antonio Liotta, Stavros Stavrou, "Sample Size Determination Algorithm for Fingerprint-Based Indoor Localization Systems", in *Computer Networks*, 101, pp. 169-177, 2016. doi: 10.1016/j.comnet.2015.12.015 ISI
- [51] O. Zedrada, H. Seridi, N. Jouandeau, and G. Fortino, "A Cooperative Switching Algorithm for Multi-Agent Foraging", *Engineering Applications of Artificial Intelligence*, 50, pp. 302-319, Apr 2016. doi: 10.1016/j.engappai.2016.01.025 ISI
- [52] A. Sabato, M. Q. Feng, Y. Fukuda, D. L. Carní, and G. Fortino, "A Novel Wireless Accelerometer Board for Measuring Low-Frequency and Low-Amplitude Structural Vibration", *IEEE Sensors Journal*, 16(9), pp. 2942-2949, 2016. doi: 10.1109/JSEN.2016.2522940 ISI
- [53] P. Pace, G. Aloï, G. Caliciuri, and G. Fortino, "A mission-oriented coordination framework for teams of mobile aerial and terrestrial smart objects," in *Mobile Networks and Applications (MONET)*, 21(4): 708-725 (2016). DOI:10.1007/s11036-016-0726-4. ISI
- [54] K. Lin, M. Chen, J. Deng, M. M. Hassan, G. Fortino, "Enhanced Fingerprinting and Trajectory Prediction for IoT Localization in Smart Buildings" in *IEEE Transactions on Automation Science and Engineering*. 13 (3), pp. 1225-1229. 2016. doi: 10.1109/TASE.2016.2543242 ISI
- (from Web of Science Core Collection) **Highly Cited Paper: As of August 2020, this highly cited paper received enough citations to place it in the top 1% of the academic field of Engineering based on a highly cited threshold for the field and publication year.**
- [55] G. Fortino, "Agents Meet the IoT: Toward Ecosystems of Networked Smart Objects," in *IEEE Systems, Man, and Cybernetics Magazine*, vol. 2, no. 2, pp. 43-47, April 2016. doi: 10.1109/MSMC.2016.2557483
- [56] G. Fortino, A. Giordano, A. Guerrieri, G. Spezzano, A. Vinci, "On the Design of Smart Homes: A Framework for Activity Recognition in Home Environment" in *Journal of Medical Systems*, 40 (9), Sept. 2016. DOI:10.1007/s10916-016-0549-7. ISI
- [57] R. Gravina, C. Ma, W. Li, P. Pace, G. Aloï, W. Russo, G. Fortino, "Cloud-based Activity-aaS Service Cyberphysical Framework for Human Activity Monitoring in Mobility Future Generation Computer Systems", in *Future Generation Computer Systems*, 2016. DOI:10.1016/j.future.2016.09.006. Vol. 47, pp. 158-171, Oct. 2017. ISI
- [58] R. Gravina, P. Alinia, H. Ghasemzadeh, G. Fortino, "Multi-Sensor Fusion in Body Sensor Networks: State-of-the-art and research challenges," in *Information Fusion*, 35, pp. 1339-1351, 2017. DOI: 10.1016/j.inffus.2016.09.005. ISI
- (from Web of Science Core Collection) **Highly Cited Paper: As of August 2020, this highly cited paper received enough citations to place it in the top 1% of the academic field of Engineering based on a highly cited threshold for the field and publication year.**
- [59] G. Aloï, G. Caliciuri, G. Fortino, R. Gravina, P. Pace, W. Russo, C. Savaglio, "Enabling IoT interoperability through opportunistic smartphone-based mobile gateways", in *Journal of Network and Computer Applications*, 81, pp. 74-84, 2017. DOI: 10.1016/j.jnca.2016.10.013. ISI

(from Web of Science Core Collection) **Highly Cited Paper: As of August 2020, this highly cited paper received enough citations to place it in the top 1% of the academic field of Engineering based on a highly cited threshold for the field and publication year.**

- [60] Shamsul Huda, John Yearwood, Herbert F. Jelinek, Mohammad Mehedi Hassan, Giancarlo Fortino, Michael Buckland, "A hybrid feature selection with ensemble classification for imbalanced healthcare data: A case study for brain tumor diagnosis", in *IEEE Access*, 4: 9145-9154 (2016). ISI
- [61] Alessandro Sabato, Christopher Niezrecki, and Giancarlo Fortino, "Wireless MEMS-Based Accelerometer Sensor Boards for Structural Vibration Monitoring: A Review", in *IEEE Sensors Journal*, vol. 17, p. 226-235. DOI:10.1109/JSEN.2016.2630008. ISI
- [62] F. Cicirelli, G. Fortino, A. Guerrieri, G. Spezzano, A. Vinci, "Metamodeling of Smart Environments: from Design to Implementation", in *Advanced Engineering Informatics*, 2016. doi: 10.1016/j.aei.2016.11.005. ISI
- [63] M. Chen, P. Zhou, G. Fortino, "Emotion Communication System", in *IEEE Access*, 2016. DOI:10.1109/ACCESS.2016.2641480. ISI
- [64] O. Zedadra, N. Jouandau, H. Seridi, G. Fortino, "Multi-Agent Foraging: State-of-the-art and Research Challenges," in *Complex Adaptive Systems Modeling*, 5(3), 2017. DOI:10.1186/s40294-016-0041-82016. ISI
- [65] Z. Wang, D. Wua, R. Gravina, G. Fortino, "Kernel Fusion based Extreme Learning Machine for Cross-location Activity Recognition," in *Information Fusion*, Volume 37, September 2017, Pages 1–9. DOI:10.1016/j.inffus.2017.01.004 ISI
- [66] Md. Zia Uddin, Mohammed Mehedi Hassan, Ahmad Amogren, Abdulhameed Alelaiwi and Giancarlo Fortino, "Facial Expression Recognition Utilizing Local Direction-based Robust Features and Deep Belief Network", in *IEEE Access*, 2017. DOI:10.1109/ACCESS.2017.2676238 ISI
- [67] G. Fortino, R. Gravina, W. Russo and C. Savaglio, "Modeling and Simulating Internet-of-Things Systems: A Hybrid Agent-Oriented Approach," in *Computing in Science & Engineering*, vol. 19, no. 5, pp. 68-76, 2017. doi: 10.1109/MCSE.2017.342154 ISI
- [68] C. Ma, W. Li, R. Gravina, G. Fortino, "Posture Detection Based on Smart Cushion for Wheelchair Users," in *Sensors*, 17(4), 719, 2017. DOI:10.3390/s17040719. ISI
- [69] Md. Zia Uddin, Mohammed Mehedi Hassan, Ahmad Almogren, Mansour Zuair, Giancarlo Fortino, and Jim Torresen, "A Facial Expression Recognition System Using Robust Face Features from Depth Videos and Deep Learning," in *Computers and Electrical Engineering*, DOI: 10.1016/j.compeleceng.2017.04.019, in press. ISI
- [70] Ying Duan, Xiuwen Fu, Wenfeng Li, Yu Zhang, Giancarlo Fortino, "Evolution of Scale-free Wireless Sensor Networks with Feature of Small-world Networks" in *Complexity* 2017(3):1-15 · July 2017, DOI: 10.1155/2017/2516742 ISI
- [71] Wenfeng Li, Xinyun Hu, Raffaele Gravina, and Giancarlo Fortino, "A Neuro-fuzzy Fatigue-tracking and Classification System for Wheelchair Users", in *IEEE Access*, DOI: 10.1109/ACCESS.2017.2730920. ISI
- [72] M. De Benedetti, F. D'Urso, F. Messina, G. Pappalardo, C. Santoro, G. Fortino, "A Fault-tolerant Self-organizing Flocking Approach for UAV Aerial Survey" *Journal of Network and Computer Applications*, Volume 96, 15 October 2017, Pages 14-30, ISSN 1084-8045, <https://doi.org/10.1016/j.jnca.2017.08.004>. ISI
- [73] Asma Enayet, Md. Abdur Razzaque, Mohammad Mehedi Hassan, Atif Alamri, and Giancarlo Fortino, "A Mobility-aware Optimal Resource Allocation Architecture for Big Data Task Execution on Mobile Cloud in Smart Cities" *IEEE Communications Magazine*, 56(2), pp. 110-117 DOI:10.1109/MCOM.2018.1700293, 2018. ISI
- [74] Lin Yang, Wenfeng Li, Masoud Ghandehari, and Giancarlo Fortino, "People-centric Cognitive Internet of Things for the Quantitative Analysis of Environmental Exposure", in *IEEE IoT Journal*, doi: 10.1109/JIOT.2017.2751307, 2017. ISI

- [75] Congcong Ma, Wenfeng Li, Raffaele Gravina, Jingjing Cao, Qimeng Li, Giancarlo Fortino, "Activity Level Assessment Using a Smart Cushion for People with Sedentary Lifestyle", *Sensors MDPI, Sensors* 2017, 17(10), 2269; doi:10.3390/s17102269. ISI
- [76] Yun Luo, Ying Duan, Wenfeng Li, Pasquale Pace, Giancarlo Fortino, "Workshop Networks Integration using Mobile Intelligences in Smart Factories", *IEEE Communications Magazine*, 56(2), pp. 68-75, DOI: 10.1109/MCOM.2018.1700618, 2018. ISI
- [77] Pace, Pasquale; Frustaci, Mario; Aloï, Gianluca; Fortino, Giancarlo, "Evaluating critical security issues of the IoT world: Present and Future challenges", in *IEEE IoT Journal*, doi: 10.1109/JIOT.2017.2767291, 2017. ISI
- (from Web of Science Core Collection)* **Highly Cited Paper: As of August 2020, this highly cited paper received enough citations to place it in the top 1% of the academic field of Engineering based on a highly cited threshold for the field and publication year.**
- [78] Ferdous, Jannatul; Mollah, Md. Parvez; Razzaque, Md. Abdur; Hassan, Mohammad Mehedi; Alamri, Atif; Fortino, Giancarlo; Zhou, Mengchu, "Optimal Dynamic Pricing for Trading-off User Utility and Operator Profit in Smart Grid" in *IEEE Transactions on Systems, Man and Cybernetics: Systems*. Doi: 10.1109/TSMC.2017.2764442, 2017, to appear. ISI
- [79] G. Fortino, W. Russo, C. Savaglio, W. Shen, M. Zhou, "Agent-Oriented Cooperative Smart Objects: From IoT System Design to Implementation", in *IEEE Transactions on Systems, Man and Cybernetics: Systems*. doi: 10.1109/TSMC.2017.2780618, 2017, to appear. ISI
- [80] Sayef Azad Sakin, Md. Abdur Razzaque, Mohammad Mehedi Hassan, Atif Alamri, Nguyen H. Tran and Giancarlo Fortino, "Self-Coexistence among IEEE 802.22 Networks: Distributed Allocation of Power and Channel", *Sensors* 2017, 17(12), 2838; doi:10.3390/s17122838. ISI
- [81] Shamsul Huda, Rafiqul Islam, Jemal Abawajy, John Yearwood, Mohammad Mehedi Hassan, Giancarlo Fortino, "A framework to determine the significant run-time characteristics of malware using wrapper-filter approaches", *Future Generation Computer Systems*, 2018. doi: 10.1016/j.future.2017.12.037 ISI
- [82] M. Chen, G. Fortino, et al. "Network Slicing Technology in 5G Wearable Network," *IEEE Communications Standards Magazine*, 2018, to appear
- [83] M. Zheng, P. X. Liu, R. Gravina and G. Fortino, "An Emerging Wearable World: New Gadgets Produce a Rising Tide of Changes and Challenges," in *IEEE Systems, Man, and Cybernetics Magazine*, vol. 4, no. 4, pp. 6-14, Oct. 2018. doi: 10.1109/MSMC.2018.2806565.
- [84] Min Chen, Yuanwen Tian, Giancarlo Fortino, Jing Zhang, Iztok Humar: Cognitive Internet of Vehicles. *Computer Communications* 120: 58-70 (2018), ISSN 0140-3664, doi:10.1016/j.comcom.2018.02.006. ISI
- (from Web of Science Core Collection)* **Highly Cited Paper: As of August 2020, this highly cited paper received enough citations to place it in the top 1% of the academic field of Engineering based on a highly cited threshold for the field and publication year.**
- [85] Y. Luo, Y. Duan, F. W. Li, P. Pace and G. Fortino, "A Novel Mobile and Hierarchical Data Transmission Architecture for Smart Factories," in *IEEE Transactions on Industrial Informatics*, 2018. doi: 10.1109/TII.2018.2824324 ISI
- [86] Walaa N. Ismail, Mohammad Mehedi Hassan, Hessah A. Alsalamah, Giancarlo Fortino, Mining productive-periodic frequent patterns in tele-health systems, *Journal of Network and Computer Applications*, Volume 115, 1 August 2018, Pages 33-47, ISSN 1084-8045, <https://doi.org/10.1016/j.jnca.2018.04.014>. ISI
- [87] PeiYun Zhang, MengChu Zhou, Giancarlo Fortino, Security and trust issues in Fog computing: A survey, *Future Generation Computer Systems*, Available online 15 May 2018, ISSN 0167-739X, <https://doi.org/10.1016/j.future.2018.05.008>. ISI
- [88] Yin Zhang, Raffaele Gravina, Huimin Lu, Massimo Villari, Giancarlo Fortino, PEA: Parallel electrocardiogram-based authentication for smart healthcare systems, *Journal of Network and Computer Applications*, Available online 14 May 2018, ISSN 1084-8045, <https://doi.org/10.1016/j.jnca.2018.05.007>. ISI

- [89] G. Aloï, G. Caliciuri, G. Fortino, R. Gravina, A. Liotta, P. Pace, "An Edge-based Architecture to Support Efficient Applications for Healthcare Industry 4.0", *IEEE Transactions on Industrial Informatics*, (26 Mag 2018). ISI  
(from Web of Science Core Collection) **Highly Cited Paper: As of August 2020, this highly cited paper received enough citations to place it in the top 1% of the academic field of Engineering based on a highly cited threshold for the field and publication year.**
- [90] Kai Lin, Chensi Li, Giancarlo Fortino, Joel J. P. C. Rodrigues, "Vehicle Route Selection Based on Game Evolution in Social Internet of Vehicles", *IEEE Internet of Things Journal*, (29 Maggio 2018). ISI
- [91] M. Gulino, G. Fortino, et al. MOBILE HEALTH: STUDIO PILOTA SUL "MONITORAGGIO DECENTRALIZZATO ED IN MOBILITÀ DEGLI STILI DI VITA" NELL'AMBITO DEL PROGETTO EUROPEO "INTEROPERABILITÀ DI PIATTAFORME ETEROGENEE IoT-INTER-IoT", *RIVISTA ITALIANA DI NUTRIZIONE E METABOLISMO - DICEMBRE 2017 • VOLUME I • NUMERO 4*, pp. 1-16.
- [92] G. Fortino, F. Messina, D. Rosaci, G.M. L. Sarné, "Using trust and local reputation for group formation in the Cloud of Things," *Future Generation Computer Systems*, Volume 89, 2018, Pages 804-815, ISSN 0167-739X, <https://doi.org/10.1016/j.future.2018.07.021>. ISI
- [93] Md Golam Rabiul Alam, Mohammad Mehedi Hassan, Md. Zia Uddin, Ahmad Almogren, Giancarlo Fortino, "Autonomic computation offloading in mobile edge for IoT applications" *Future Generation Computer Systems*, Volume 90, 2019, Pages 149-157, ISSN 0167-739X, <https://doi.org/10.1016/j.future.2018.07.050>. ISI
- [94] Min Chen, Wei Li, Giancarlo Fortino, Yixue Hao, Long Hu, Iztok Humar, "A Dynamic Service-Migration Mechanism in Edge Cognitive Computing" *ACM Transactions on Internet Technology (TOIT)*, accepted on July 7, 2018. ISI  
(from Web of Science Core Collection) **Highly Cited Paper: As of August 2020, this highly cited paper received enough citations to place it in the top 1% of the academic field of Engineering based on a highly cited threshold for the field and publication year.**
- [95] S. Qiu et al., "Body Sensor Network based Robust Gait Analysis: Toward Clinical and at Home Use," in *IEEE Sensors Journal*. doi: 10.1109/JSEN.2018.2860938 ISI
- [96] Mohammad Mehedi Hassan, Iehab Al Rasan, Ahmad Almogren, Mohammed Al Qurishi, Giancarlo Fortino, Irfan Mohiuddin "Secure Distributed Adaptive Bin Packing Algorithm for Cloud Storage", *Future Generation Computer Systems*, accepted on Aug 7 2018. ISI
- [97] Zedadra Ouarda, Antonio Guerrieri; Nicolas Jouandeau; Giandomenico Spezzano; Hamid Seridi; Giancarlo Fortino, "Swarm Intelligence-Based Algorithms within IoT-Based Systems: a Review", *Journal of Parallel and Distributed Computing*, accepted on Aug 13 2018. ISI
- [98] Xiuwen Fu, Giancarlo Fortino, Wenfeng Li, Pasquale Pace, Yongsheng Yang, "WSNs-Assisted Opportunistic Network for Low-Latency Message Forwarding in Sparse Settings", *Future Generation Computer Systems*, accepted on Aug 15 2018. ISI
- [99] Giancarlo Fortino, Fabrizio Messina, Domenico Rosaci, Giuseppe M. L. Sarné: Using trust and local reputation for group formation in the Cloud of Things. *Future Generation Computer Systems*. 89: 804-815 (2018). ISI
- [100] Casadei, R., Fortino, G., Pianini, D., Russo, W., Savaglio, C., Viroli, M. Modelling and simulation of Opportunistic IoT Services with Aggregate Computing (2019) *Future Generation Computer Systems*, 91, pp. 252-262. ISI
- [101] Claudio M. de Farias, Luci Pirmez, Giancarlo Fortino, Antonio Guerrieri, A multi-sensor data fusion technique using data correlations among multiple applications, *Future Generation Computer Systems*, Volume 92, 2019, Pages 109-118, ISSN 0167-739X, <https://doi.org/10.1016/j.future.2018.09.034>. ISI
- [102] Duan, Y., Luo, Y., Li, W., Pace, P., Aloï, G., Fortino, G. A collaborative task-oriented scheduling driven routing approach for industrial IoT based on mobile devices (2018) *Ad Hoc Networks*, 81, pp. 86-99. ISI

- [103] Habib, M.A., Saha, S., Razzaque, M.A., Mamun-or-Rashid, M., Fortino, G., Hassan, M.M. Starfish routing for sensor networks with mobile sink (2018) *Journal of Network and Computer Applications*, 123, pp. 11-22. ISI
- [104] Zhao, H., Wang, Z., Qiu, S., Shen, Y., Zhang, L., Tang, K., Fortino, G. Heading Drift Reduction for Foot-Mounted Inertial Navigation System via Multi-Sensor Fusion and Dual-Gait Analysis (2018) *IEEE Sensors Journal*. Article in Press. ISI
- [105] Ramani Selvanambi; Jaisankar Natarajan; Marimuthu Karuppiah; SK Hafizul Islam; Mohammad Mehedi Hassan; Giancarlo Fortino, "Lung Cancer Prediction using Higher Order Recurrent Neural Network based on Glowworm Swarm Optimization" accepted for publication in *Neural Computing and Applications*, Oct 14, 2018. ISI
- [106] Xiao Ma, Jiangfeng Zeng, Limei Peng, Giancarlo Fortino, Yin Zhang, "Modeling Multi-aspects Within One Opinionated Sentence Simultaneously for Aspect-level Sentiment Analysis," accepted for publication in *Future Generation Computer Systems*, Oct 25, 2018. ISI
- [107] Mohammad Mehedi Hassan, Md. Golam Rabiul Alam, Md. Zia Uddin, Shamsul Huda, Ahmad Almogren, Giancarlo Fortino "Human Emotion Recognition Using Deep Belief Network Architecture", accepted for publication in *Information Fusion*, Oct 31, 2018. Doi: 10.1016/j.inffus.2018.10.009. ISI
- (from Web of Science Core Collection)* **Highly Cited Paper: As of August 2020, this highly cited paper received enough citations to place it in the top 1% of the academic field of Engineering based on a highly cited threshold for the field and publication year.**
- [108] Francesco Cauteruccio, Giancarlo Fortino, Antonio Guerrieri, Antonio Liotta, Decebal Mocanu, Cristian Perra, Giorgio Terracina, Maria Torres Vega, "Short-Long Term Anomaly Detection in Wireless Sensor Networks based on Machine Learning and Multi-Parameterized Edit Distance", accepted for publication in *Information Fusion*, Nov 28, 2018. ISI
- [109] M. Alrubaian, M. Al-Qurishi, A. Alamri, M. Al-Rakhami, M. M. Hassan and G. Fortino, "Credibility in On-line Social Networks: A Survey," in *IEEE Access*. doi: 10.1109/ACCESS.2018.2886314 ISI
- [110] K. Lin, F. Xia, G. Fortino, "Data-driven Clustering for Multimedia Communication in Internet of Vehicles," *Future Generation Computer Systems*, 2018. DOI: 10.1016/j.future.2018.12.045. ISI
- [111] Mohammad Mehedi Hassan, Noura Alhakhbani, Mourad Ykhlef, Giancarlo Fortino, "An Efficient Event Matching System for Semantic Smart Data in the Internet of Things Environment", accepted for publication in *Future Generation Computer Systems*, Dec 28 2018. ISI
- [112] P. Pace, G. Fortino, Y. Zhang, A. Liotta, "Intelligence at the Edge of Complex Networks: the case of cognitive transmission power control," accepted for publication in *IEEE Wireless Communications Magazine*, Dec 30 2018. ISI
- [113] Weilin Zang, Ye Li, Giancarlo Fortino, Fangmin Sun, Raffaele Gravina, "CMDP-Based Intelligent Transmission for Wireless Body Area Network in Health," accepted for publication in *Neural Computing and Applications*, Jan 11 2019. ISI
- [114] M. M. Hassan, L. Jegatha Deborah, A. Alelaiwi, G. Fortino, P. Vijayakumar, M. Ganesh S, SK Hafizul Islam, "MGPV: A novel and efficient scheme for secure data sharing among mobile users in the public cloud", accepted for publication in *Future Generation Computer Systems*, Jan 15 2019. ISI
- [115] Mehedi et al. "Applying an Ensemble Convolutional Neural Network with Savitzky Golay Filter to Construct a Phonocardiogram Prediction Model," accepted for publication in *Applied Soft Computing*, Jan 16 2019. ISI
- [116] M. M. Hassan, T. Maitra, G. Fortino, S. K. H. Islam, R. Chatterjee, A. Alamri, "A Novel Machine Learning based Feature Selection for Motor Imagery EEG Signal Classification in Internet of Medical Things Environment," accepted for publication in *Future Generation Computer Systems*, Jan 22 2019. ISI
- [117] C. Savaglio, P. Pace, G. Aloï, A. Liotta and G. Fortino, "Lightweight Reinforcement Learning for Energy Efficient Communications in Wireless Sensor Networks," in *IEEE Access*. doi: 10.1109/ACCESS.2019.2902371 ISI

- [118] L. Hu, W. Li, J. Yang, G. Fortino and M. Chen, "A Sustainable Multi-Modal Multi-Layer Emotion-Aware Service at the Edge," in *IEEE Transactions on Sustainable Computing*, vol. 7, no. 2, pp. 324-333, 1 April-June 2022, doi: 10.1109/TSUSC.2019.2928316. ISI
- [119] Gumaei, Abdu, Hassan, Mohammad Mehedi Hassan, Md Rafiul Alelaiwi , Abdulhameed, Fortino, Giancarlo "A Hybrid Feature Extraction Method with Regularized Extreme Learning Machine for Brain Tumor Classification" accepted for publication in *IEEE Access*, Mar 10 2019. ISI
- [120] K Selvakumar, Marimuthu Karuppiah, L SaiRamesh, SK Hafizul Islam, Mohammad Mehedi Hassan, Giancarlo Fortino, Kim-Kwang Raymond Choo, "Intelligent Temporal Classification and Fuzzy Rough Set-based Feature Selection Algorithm for Intrusion Detection System in WSNs," *Information Sciences*, 2019, DOI:10.1016/j.ins.2019.05.040. ISI
- [121] Fortino, Giancarlo; Messina, Fabrizio; Rosaci, Domenico; Sarne', Giuseppe, "Using Blockchain in a Reputation-based Model for Grouping Agents in the Internet of Things", Accepted in *IEEE Transactions on Engineering Management*, May 20 2019. DOI: 10.1109/TEM.2019.2918162 ISI
- [122] Roberto Casadei; Giancarlo Fortino; Danilo Pianini; Wilma Russo; Claudio Savaglio; Mirko Viroli, "A Development Approach for Collective Opportunistic Edge-of-Things Services" Accepted in *Information Sciences*, May 20 2019. ISI
- [123] Sujan Sarker, Md. Abdur Razzaque, Mohammad Mehedi Hassan, Ahmed Almogren, Giancarlo Fortino, Mengchu Zhou, "Optimal Selection of Crowdsourcing Workers Balancing their Utilities and Platform Profit", Accepted in *IEEE IoT Journal*, May 26 2019. doi: 10.1109/JIOT.2019.2921234 ISI
- [124] Mabrook Al-Rakhami, Abdu Gumaei, Mohammed Alsahli, Mohammad Mehedi Hassan, Atif Alamri, Antonio Guerrieri and Giancarlo Fortino, "A Lightweight and Cost Effective Edge Intelligence Architecture based on Containerization Technology", *World Wide Web* (2019). <https://doi.org/10.1007/s11280-019-00692-y>. ISI
- [125] Xiuwen Fu, Giancarlo Fortino, Gianluca Aloï, Pasquale Pace, Wenfeng Li, "Environment-Fusion Multipath Routing Protocol For Wireless Sensor Networks," Accepted in *Information Fusion*, June 1 2019. ISI
- [126] Ye Li, Fangmin Sun, Giancarlo Fortino, Raffaele Gravina, Weilin Zang, "Gait-Based Identity Recognition for Elderly People Centered Wearable Healthcare System", Accepted in *Information Fusion*, June 12 2019. ISI
- [127] Mohammad Mehedi Hassan, Abdu Gumaei, Gianluca Aloï, Giancarlo Fortino, and Mengchu Zhou, "A Smartphone-Enabled Fall Detection Framework for Elderly People in Connected Home Healthcare," in *IEEE Network*, November/December 2019, DOI: 201910.1109/MNET.001.1900100. ISI
- [128] Ali Hassan Sodhro, P. Pace, G. Fortino, et al. "Quality of Service Optimization in IoT Driven Intelligent Transportation System," accepted for publication in *IEEE Wireless Communications Magazine*, July 3 2019. ISI
- [129] Mohammad Mehedi Hassan, Eric Ke Wang, Giancarlo Fortino, S.M. Yiu, Chien-Ming Chen, Majed Alrubaian, "Incentive Evolutionary Game Model for Opportunistic Social Networks," accepted for publication in *Future Generation Computer Systems*, July 16 2019. ISI
- [130] Y. Wang, W. Song, A. Liotta, G. Fortino, "An Experimental-based Review of Image Enhancement and Image Restoration Methods for Underwater Imaging," accepted for publication in *IEEE Access*, July 26 2019. ISI
- [131] Claudio Savaglio, Maria Ganzha, Marcin Paprzycki, Costin Badica, Mirjana Ivanovic, Giancarlo Fortino, "Agent-based Internet of Things: State-of-the-art and Research Challenges," accepted for publication in *Future Generation Computer Systems*, Sep 09 2019. ISI
- [132] E. Ferrara ; L. Fragale ; G. Fortino ; W. Song ; C. Perra ; M. di Mauro ; A. Liotta, "An AI approach to Collecting and Analyzing Human Interactions with Urban Environments," in *IEEE Access*. doi: 10.1109/ACCESS.2019.2943845 ISI
- [133] Kelvin Wong, Giancarlo Fortino, Derek Abbott, Deep Learning-Based Cardiovascular Image Diagnosis: A Promising Challenge, accepted for publication in *Future Generation Computer Systems*, Sept. 27 2019. ISI
- [134] K Lin, C Li, P Pace, G Fortino, "Multi-level cluster-based satellite-terrestrial integrated communication in Internet of vehicles," accepted for publication in *Computer Communications*, Oct. 6 2019 ISI



- [135] Y. Hao, M. Li, D. Wu, M. Chen, M. M. Hassan and G. Fortino, "Human-Like Hybrid Caching in Software-defined Edge Cloud," in *IEEE Internet of Things Journal*. doi: 10.1109/JIOT.2019.2950688 ISI
- [136] Mohammad Mehedi Hassan, PhD; Abdu Gumaei; Ahmed Alsanad; Majed Alrubaian; Giancarlo Fortino, "A Hybrid Deep Learning Model for Efficient Intrusion Detection in Big Data Environment," accepted for publication in *Information Sciences*, Nov. 9 2019. ISI
- [137] G. Fortino, F. Messina, D. Rosaci, G. M. Sarnè, C. Savaglio, "A Trust-based Team Formation Framework for Mobile Intelligence in Smart Factories", accepted for publication in *IEEE Transactions in Industrial Informatics*, Dec. 26 2019. ISI
- [138] G. Fortino, L. Fotia, F. Messina, G. M. L. Sarnè, D. Rosaci, "A Meritocratic Trust-based Group Formation in an IoT Environment for Smart Cities, accepted for publication in *Future Generation Computer Systems*, Feb. 9 2020. ISI
- [139] Z. Ghaffar, S. Ahmed, K. Mahmood, SK H. Islam, M. M. Hassan, G. Fortino, "An Improved Authentication Scheme for Remote Data Access and Sharing over Cloud Storage in Cyber-Physical-Social-Systems", accepted for publication in *IEEE Access*, Feb. 12 2020. ISI
- [140] A. Buzachis, A. Celesti, A. Galletta M. Fazio, G. Fortino, M. Villari, "A Multi-Agent Autonomous Intersection Management (MA-AIM) System for Smart Cities Leveraging Edge-of-Things and Blockchain," accepted for publication in *Information Sciences*, Feb. 26 2020. ISI
- [141] K. Lin, C. Li, J. J. P. C. Rodrigues, P. Pace, G. Fortino, "Data-driven Joint Resource Allocation in Large-scale Heterogeneous Wireless Networks," accepted for publication in *IEEE Network*, Feb. 29 2020. ISI
- [142] G. Fortino, L. Fotia, F. Messina, G.M.L. Sarnè, D. Rosaci, "Trust and Reputation in the Internet of Things: A survey", accepted for publication in *IEEE Access*, Mar. 10 2020. ISI
- [143] W. Dong, L. Yang, G. Fortino, "Stretchable human machine interface based on smart glove embedded with PDMS-CB strain sensors", accepted for publication in *IEEE Sensors Journal*, Mar. 12 2020. DOI: [10.1109/JSEN.2020.2982070](https://doi.org/10.1109/JSEN.2020.2982070) ISI
- [144] T. Alfakih, M. M. Hassan, A. Gumaei, C. Savaglio and G. Fortino, "Task Offloading and Resource Allocation for Mobile Edge Computing by Deep Reinforcement Learning Based on SARSA," in *IEEE Access*. doi: 10.1109/ACCESS.2020.2981434 ISI
- [145] W. N. Ismail, M. M. Hassan, H. A. Alsalamah and G. Fortino, "CNN-based Health Model for Regular Health Factors Analysis in Internet-of-Medical Things Environment," in *IEEE Access*. doi: 10.1109/ACCESS.2020.2980938 ISI
- [146] Ikram Ud Din, Shah Rukh Khan, Misba Sikandar, Ahmad Almogren, Antonio Guerrieri, Giancarlo Fortino, "IoMT-based Computational Approach for Detecting Brain Tumor," accepted for publication in *Future Generation Computer Systems*, Mar. 28 2020. ISI
- [147] Teemu Leppänen, Claudio Savaglio, Giancarlo Fortino, "Service modeling for opportunistic edge computing systems with feature engineering," *Computer Communications*, 2020. To appear. ISI  
DOI: 10.1016/j.comcom.2020.04.011.
- [148] G. Aloï, G. Fortino, R. Gravina, P. Pace, C. Savaglio, "Simulation-driven platform for edge based AAL systems," accepted for publication in *IEEE Journal on Selected Areas in Communications*, Apr. 16 2020. 10.1109/JSAC.2020.3021544 ISI
- [149] C. Savaglio, G. Fortino, "A simulation-driven methodology for IoT Data Mining based on Edge Computing," accepted for publication in *ACM Transactions on Internet Technology*, May 13 2020. ISI
- [150] Xiuwen Fu, Pasquale Pace, Gianluca Aloï, Lin Yang, Giancarlo Fortino, "Topology Optimization Against Cascading Failures on Wireless Sensor Networks Using a Memetic Algorithm," *Computer Networks*, Volume 177, 2020, 107327, ISSN 1389-1286, <https://doi.org/10.1016/j.comnet.2020.107327>. ISI
- [151] K. Lin, Y. Li, J. Deng, P. Pace and G. Fortino, "Clustering-Learning-Based Long-Term Predictive Localization in 5G-Envisioned Internet of Connected Vehicles," in *IEEE Transactions on Intelligent Transportation Systems*, doi: 10.1109/TITS.2020.2997472. ISI
- [152] Giancarlo Fortino, Antonio Liotta, Fabrizio Messina, Domenico Rosaci, and Giuseppe M. L. Sarnè, "Evaluating Group Formation in Virtual Communities," *IEEE/CAA JOURNAL OF AUTOMATICA SINICA*, VOL. 7, NO. 4, JULY 2020. ISI

- [153] Giancarlo Fortino, Lidia Fotia, Fabrizio Messina, Domenico Rosaci and Giuseppe M. L. Sarné, "Using Local Trust Measures to Form Agent CoT Groups," *Intelligenza Artificiale*, vol. 14, no. 1, pp. 33-44, 2020, DOI: 10.3233/IA-190039, Published: 17 September 2020. ESCI
- [154] Massimo Mecella, Giancarlo Fortino, et al. "The Internet-of-Things Meets Business Process Management. A Manifesto", *IEEE SMC Magazine*, Accepted for publication, 1 June 2020. Doi: 10.1109/MSMC.2020.3003135 ISI
- [155] Qimeng Li, Raffaele Gravina, Ye Li, Saeed H. Alsamhi, Fangmin Sun, Giancarlo Fortino, "3: Challenges and Opportunities," *Information Fusion*, Volume 63, 2020, Pages 121-135, ISSN 1566-2535, <https://doi.org/10.1016/j.inffus.2020.06.004>. ISI
- [156] G. Fortino, F. Messina, D. Rosaci and G. M. L. Sarne, "ResIoT: An IoT social framework resilient to malicious activities," in *IEEE/CAA Journal of Automatica Sinica*, vol. 7, no. 5, pp. 1263-1278, September 2020, doi: 10.1109/JAS.2020.1003330. ISI
- [157] Fen Miao, Bo Wen, Zhejing Hu, Giancarlo Fortino, Xi-Ping Wang, Zeng-Ding Liu, Min Tang, Ye Li, "Continuous Blood Pressure Measurement from One-channel Electrocardiogram Signal based on Deep Learning Techniques," Accepted for publication in *Artificial Intelligence in Medicine*, 24 June 2020. DOI: 10.1016/j.artmed.2020.101919 ISI
- [158] A. Alamri, A. Gumaei, M. Al-Rakhami, M. M. Hassan, M. Alhussein and G. Fortino, "An Effective Bio-Signal-Based Driver Behavior Monitoring System Using a Generalized Deep Learning Approach," in *IEEE Access*, vol. 8, pp. 135037-135049, 2020, doi: 10.1109/ACCESS.2020.3011003. ISI
- [159] Francesco Cauteruccio, Luca Cinelli, Giancarlo Fortino, Claudio Savaglio, Giorgio Terracina, Domenico Ursino, and Luca Virgili, "An Approach to Compute the Scope of a Social Object in a Multi-IoT Scenario," *Pervasive and Mobile Computing*, Volume 67, 2020, 101223, ISSN 1574-1192, <https://doi.org/10.1016/j.pmcj.2020.101223>. ISI
- [160] Asma Belhadi, Youcef Djenouri, Gautam Srivastava, Djamel Djenouri, Jerry Chun-Wei Lin, Giancarlo Fortino, "Deep Learning for Pedestrian Collective Behavior Analysis in Smart Cities: A model of group trajectory outlier detection," Accepted for publication in *Information Fusion*, August 3 2020. doi:10.1016/j.inffus.2020.08.003 ISI
- [161] Francesco Cauteruccio, Luca Cinelli, Enrico Corradini, Giorgio Terracina, Domenico Ursino, Luca Virgili, Antonio Liotta, and Claudio Savaglio, Giancarlo Fortino. "A framework for anomaly detection and classification in Multiple IoT scenarios," Accepted for publication in *Future Generation Computer Systems*, August 6 2020. doi: 10.1016/j.future.2020.08.010 ISI
- [162] M. M. Hassan, S. Huda, S. Sharmeen, J. Abawajy and G. Fortino, "An Adaptive Trust Boundary Protection for IIoT Networks Using Deep-Learning Feature-Extraction-Based Semisupervised Model," in *IEEE Transactions on Industrial Informatics*, vol. 17, no. 4, pp. 2860-2870, April 2021, doi: 10.1109/TII.2020.3015026. ISI
- [163] Abdu Gumaei, Mohammad Mehedi Hassan, Shamsul Huda, Md. Rafiul Hassan, Giancarlo Fortino, David Camacho, Javier Del Ser, "A robust cyberattack detection approach using optimal features of SCADA power systems in smart grids," *Applied Soft Computing*, 2020, 106658, ISSN 1568-4946, <https://doi.org/10.1016/j.asoc.2020.106658>. ISI
- [164] Ahmed, Imran; Din, Sadia; Jeon, Gwanggil Jeon; Piccialli, Francesco; Fortino, Giancarlo, "Towards Collaborative Robotics in Top View Surveillance: A Framework for Multiple Object Tracking by Detection Using Deep Learning," Accepted for publication in *IEEE/CAA Journal of Automatica Sinica*, Aug 28 2020. ISI
- [165] Abdu Gumaei; Mabrook Al-Rakhami; Mohammad Mehedi Hassan; Atif Alamri; Musaed Alhussein; Md. Abdu Razaque; Giancarlo Fortino, "A Deep Learning-Based Driver Distraction Identification Framework over Edge Cloud," Accepted for publication in *Neural Computing and Applications*, Sep 1 2020. ISI
- [166] M. A. Habib et al., "Lifetime Maximization of Sensor Networks Through Optimal Data Collection Scheduling of Mobile Sink," in *IEEE Access*, doi: 10.1109/ACCESS.2020.3021623. ISI
- [167] Lin, Kai; Li, Chensi; Li, Yihui; Savaglio, Claudio; Fortino, Giancarlo, "Distributed Learning for Vehicle Routing Decision in Software Defined Internet of Vehicles", Accepted for publication in *IEEE Transactions on Intelligent Transportation Systems*, Sep 9 2020. 10.1109/TITS.2020.3023958 ISI
- [168] Francesco Piccialli, Vittorio Di Somma, Fabio Giampaolo, Salvatore Cuomo, Giancarlo Fortino, "A survey on deep learning in medicine: Why, how and when?," *Information Fusion*, Volume 66, 2021, Pages 111-137, <https://doi.org/10.1016/j.inffus.2020.09.006>. ISI

- [169] Jimmy Ming-Tai Wu, Mu-En Wu, Pang-Jen Hung, Mohammad Mehedi Hassan, Giancarlo Fortino, "Convert Index Trading to Option Strategies via LSTM Architecture" Accepted for publication in *Neural Computing and Applications*, Sep 17 2020. Doi: 10.1007/s00521-020-05377-6 ISI
- [170] Palash Roy, Sujan Sarker, Md. Abdur Razzaque, Mohammad Mehedi Hassan, Salman A. AlQahtani, Gianluca Aloï, Giancarlo Fortino, "AI-enabled mobile multimedia service instance placement scheme in mobile edge computing," *Computer Networks*, Volume 182, 2020, <https://doi.org/10.1016/j.comnet.2020.107573> ISI
- [171] Eugênio Peixoto Júnior, Italo L. D. Delmiro, Naercio Magai, Mohammad Mehedi Hassan, Victor Hugo C. Albuquerque, Giancarlo Fortino, "Intelligent Sensory Pen for Aiding in the Diagnosis of Parkinson's Disease from Dynamic Handwriting Analysis," Accepted for publication in *Sensors, MDPI*, Oct 11 2020. <https://doi.org/10.3390/s20205840> ISI
- [172] Abdu Gumaei, Mabrook Al-Rakhami, Mohammad Mehedi Hassan, Pasquale Pace, Gianluca Aloï, Kai Lin and Giancarlo Fortino, "Deep Learning and Blockchain with Edge Computing for 5G-Enabled Drone Identification and Flight Modes Detection," Accepted for publication in *IEEE Network*, Sept. 2020. ISI
- [173] L. Erhan, M. Ndubuaku, M. Di Mauro, W. Song, M. Chen, G. Fortino, O. Bagdasar, A. Liotta, "Smart anomaly detection in sensor systems: A multi-perspective review," *Information Fusion*, 2020, ISSN 1566-2535, doi.org/10.1016/j.inffus.2020.10.001 ISI
- [174] C. Ma, W. Li, R. Gravina, J. Du, Q. Li and G. Fortino, "Smart Cushion-Based Activity Recognition: Prompting Users to Maintain a Healthy Seated Posture," in *IEEE Systems, Man, and Cybernetics Magazine*, vol. 6, no. 4, pp. 6-14, Oct. 2020, doi: 10.1109/MSMC.2019.2962226. ISI
- [175] Dr. Wanqing Wu, João Alexandre Lobo, Marques; Wu , Wanqing ; Han, Tao; João Paulo do Vale, Madeiro; Lira Neto, Aloisio; Gravina, Raffaele; Fortino, Giancarlo; Albuquerque, Victor, "IoT-based Smart Health System for Ambulatory Maternal and Fetal Monitoring," Accepted for publication in *IEEE IoT Journal*, Oct. 29 2020. Doi: 10.1109/JIOT.2020.3037759 ISI
- [176] Y. Luo, W. Li, W. Yang, G. Fortino, "A real-time edge scheduling and adjustment framework for highly customizable factories", Accepted for publication in *IEEE Transactions on Industrial Informatics*, Dec. 2020. ISI
- [177] G. Fortino, C. Savaglio, G. Spezzano, M. Zhou, "Internet of Things as System of Systems: a review of methodologies, frameworks, platforms and tools", Accepted for publication in *IEEE Transactions on Systems, Man and Cybernetics: Systems*, Dec. 2020. Doi: 10.1109/TSMC.2020.3042898 ISI
- [178] Palash Roy, Sujan Sarker, Md. Abdur Razzaque, Md. Mamun-or-Rashid, Mohmmad Mehedi Hassan, Giancarlo Fortino, "Distributed Task Allocation in Mobile Device Cloud Exploiting Federated Learning and Subjective Logic", Accepted for publication in *Journal of Systems Architecture*, Dec. 2020. Doi: [10.1016/j.sysarc.2020.101972](https://doi.org/10.1016/j.sysarc.2020.101972) ISI
- [179] Raffaele Gravina, Giancarlo Fortino, "Wearable Body Sensor Networks: state-of-the-art and research directions," Accepted for publication in *IEEE Sensors Journal*, Dec. 2020. Doi: 10.1109/JSEN.2020.3044447 ISI
- [180] Giancarlo Fortino; Lidia Fotia; fabrizio messina, Ph.D.; Domenico Rosaci; Giuseppe M. L. Sarne A, "Blockchain-based Group Formation Strategy for Optimizing the Social Reputation Capital of an IoT Scenario," Accepted for publication in *Simulation Modelling Practice and Theory*, Dec 2020. ISI
- [181] Jiaxin Wang, Zhelong Wang, Sen Qiu, Jian Xu, Hongyu Zhao, Giancarlo Fortino, Masood Habib, "A selection framework of sensor combination feature subset for human motion phase segmentation," *Information Fusion*, Volume 70, 2021, Pages 1-11, ISSN 1566-2535, Doi:10.1016/j.inffus.2020.12.009. ISI
- [182] Jie Li, Zhelong Wang, Sen Qiu, Hongyu Zhao, Jiaxin Wang, Xin Shi, Bing Liang and Giancarlo Fortino, "Multi-Body Sensor Data Fusion to Evaluate the Hippotherapy for Motor Ability Improvement in Children with Cerebral Palsy," accepted in *Information Fusion*, Jan 6 2021. ISI
- [183] K. Lin, Y. Li, Q. Zhang and G. Fortino, "AI-Driven Collaborative Resource Allocation for Task Execution in 6G-Enabled Massive IoT," in *IEEE Internet of Things Journal*, vol. 8, no. 7, pp. 5264-5273, 1 April1, 2021, doi: 10.1109/JIOT.2021.3051031. ISI

- [184] S. Gopikrishnan, P. Priakanth, G. Srivastava and G. Fortino, "EWPS: Emergency data communication in the Internet of Medical Things," in *IEEE Internet of Things Journal*, doi: 10.1109/JIOT.2021.3053419. ISI
- [185] W. Dong, L. Yang, R. Gravina and G. Fortino, "Soft wrist-worn multi-functional sensor array for real-time hand gesture recognition," in *IEEE Sensors Journal*, doi: 10.1109/JSEN.2021.3050175. ISI
- [186] Md. Shahin Alom Shuvo, Md. Azad Rahaman Munna, Sujan Sarker, Tamal Adhikary, Md. Abdur Razzaque, Mohammad Mehedi Hassan, Gianluca Aloï, Giancarlo Fortino, "Energy-efficient scheduling of small cells in 5G: A meta-heuristic approach," *Journal of Network and Computer Applications*, Volume 178, 2021, <https://doi.org/10.1016/j.jnca.2021.102986>. ISI
- [187] Y. Qian, L. Hu, Giancarlo Fortino, Min Chen, "Secure-enhanced Content Caching for Cognitive Internet of vehicles", *Accepted for publication in IEEE Network*, Feb 2021. ISI
- [188] Wentao Dong, Lin Yang, Raffaele Gravina, Giancarlo Fortino, "ANFIS fusion algorithm for eye movement recognition via soft multi-functional electronic skin," *Accepted for publication in Information Fusion*, Feb 2021. ISI
- [189] M. Di Mauro, G. Galatro, G. Fortino, A. Liotta, "Supervised feature selection techniques in network intrusion detection: A critical review," *Engineering Applications of Artificial Intelligence*, Volume 101, 2021, <https://doi.org/10.1016/j.engappai.2021.104216>. ISI
- [190] Ke Wang, Chien-Ming Chen, Zuodong Liang, Mohammad Mehedi Hassan, Giuseppe M.L. Sarné, Lidia Fotia, Giancarlo Fortino, "A trusted consensus fusion scheme for decentralized collaborated learning in massive IoT domain," *Information Fusion*, Volume 72, 2021, Pages 100-109, <https://doi.org/10.1016/j.inffus.2021.02.011>. ISI
- [191] Yujie Yang, Ye Li, Runge Chen, Jing Zheng, Yunpeng Cai, Giancarlo Fortino, "Risk Prediction of Renal Failure for Chronic Disease Population based on Electronic Health Record Big Data," *Big Data Research*, 2021, <https://doi.org/10.1016/j.bdr.2021.100234> ISI
- [192] R. Wang, Y. Hao, Q. Yu, M. Chen, I. Humar and G. Fortino, "Depression Analysis and Recognition Based on Functional Near-Infrared Spectroscopy," in *IEEE Journal of Biomedical and Health Informatics*, vol. 25, no. 12, pp. 4289-4299, Dec. 2021, doi: 10.1109/JBHI.2021.3076762. ISI
- [193] M. S. Al-Rakhami *et al.*, "FallDeF5: A Fall Detection Framework Using 5G-based Deep Gated Recurrent Unit Networks," in *IEEE Access*, doi: 10.1109/ACCESS.2021.3091838. ISI
- [194] K. Dev, S. A. Khowajay, P. K. Sharma, B. S. Chowdhry, S. Tanwar and G. Fortino, "DDI: A Novel Architecture for Joint Active user Detection and IoT Device Identification in Grant-Free NOMA Systems for 6G and Beyond Networks," in *IEEE Internet of Things Journal*, doi: 10.1109/JIOT.2021.3095255. ISI
- [195] Fang *et al.*, "A Novel Multi-stage Residual Feature Fusion Network for Detection of COVID-19 in Chest X-ray Images," in *IEEE Transactions on Molecular, Biological and Multi-Scale Communications*, doi: 10.1109/TMBMC.2021.3099367. ISI
- [196] Zhang, Y., Du, J., Ma, X. *et al.* Aspect-Based Sentiment Analysis for User Reviews. *Cogn Comput* (2021). <https://doi.org/10.1007/s12559-021-09855-4> ISI
- [197] Muhammad Usman Yaseen, Ashiq Anjum, Giancarlo Fortino, Antonio Liotta, Amir Hussain, "Cloud based Scalable Object Recognition from Video Streams using Orientation Fusion and Convolutional Neural Networks," *Pattern Recognition*, 2021, ISSN 0031-3203, <https://doi.org/10.1016/j.patcog.2021.108207>. ISI
- [198] S. Sharmeen, S. Huda, J. Abawajy, C. M. Ahmed, M. M. Hassan and G. Fortino, "An Advanced Boundary Protection Control for the Smart Water Network using Semi Supervised and Deep Learning Approaches," in *IEEE Internet of Things Journal*, doi: 10.1109/JIOT.2021.3100461. ISI
- [199] Mohsin Ahmed, Abid Khan, Mansoor Ahmed, Mouzna Tahir, Gwanggil Jeon, Giancarlo Fortino and Francesco Piccialli, "Energy Theft Detection in Smart Grids: Taxonomy, Comparative Analysis, Challenges, and Future Research Directions," in *IEEE/CAA Journal of Automatica Sinica*, vol. 9, no. 4, pp. 578-600, April 2022, doi: 10.1109/JAS.2022.105404. ISI
- [200] Md Rafiul Hassan, Shamsul Huda, Mohammad Mehedi Hassan, Jemal Abawajy, Ahmed Alsanad, Giancarlo Fortino, "Early detection of cardiovascular autonomic neuropathy: A multi-class classification model based on feature selection and deep learning feature fusion," *Information Fusion*, Volume 77, 2022, Pages 70-80, <https://doi.org/10.1016/j.inffus.2021.07.010>. ISI

- [201] S. Qiu et al., "Sensor Combination Selection Strategy for Kayak Cycle Phase Segmentation Based on Body Sensor Networks," in *IEEE Internet of Things Journal*, doi: 10.1109/JIOT.2021.3102856. ISI
- [202] P. Shunmuga Perumal, M. Sujasree, Suresh Chavhan, Deepak Gupta, Venkat Mukthineni, Soorya Ram Shingekar, Ashish Khanna, Giancarlo Fortino, "An insight into crash avoidance and overtaking advice systems for Autonomous Vehicles: A review, challenges and solutions," *Engineering Applications of Artificial Intelligence*, Volume 104, 2021, ISSN 0952-1976, <https://doi.org/10.1016/j.engappai.2021.104406>. ISI
- [203] W. Xiao, Y. Miao, G. Fortino, D. Wu, M. Chen and K. Hwang, "Collaborative Cloud-Edge Service Cognition Framework for DNN Configuration toward Smart IIoT," in *IEEE Transactions on Industrial Informatics*, doi: 10.1109/TII.2021.3105399. ISI
- [204] Chen et al. "M-T2F: A High-Efficient Contention Protocol for Wireless Networking in Cyber-Physical-Social Systems", accepted in *IEEE Transactions on Network Science and Engineering*, Sep. 12 2021. doi: 10.1109/TNSE.2021.3113913. ISI
- [205] M. G. R. Alam et al., "Queueing Theory Based Vehicular Traffic Management System Through Jackson Network Model and Optimization," in *IEEE Access*, vol. 9, pp. 136018-136031, 2021, doi: 10.1109/ACCESS.2021.3116503. ISI
- [206] Md. Rafiul Hassan, Md. Fakrul Islam, Md. Zia Uddin, Goutam Ghoshal, Mohammad Mehedi Hassan, Shamsul Huda, Giancarlo Fortino, "Prostate cancer classification from ultrasound and MRI images using deep learning based Explainable Artificial Intelligence," *Future Generation Computer Systems*, Volume 127, 2022, Pages 462-472, doi: 10.1016/j.future.2021.09.030. ISI
- [207] Pasquale Legato, Rina Mary Mazza, Giancarlo Fortino, "A multi-level simulation-based optimization framework for IoT-enabled elderly care systems," *Simulation Modelling Practice and Theory*, Volume 114, 2022, Doi: 10.1016/j.simpat.2021.102420. ISI
- [208] Xiuwen Fu, Pasquale Pace, Gianluca Aloï, Wenfeng Li, Giancarlo Fortino, "Toward robust and energy-efficient clustering wireless sensor networks: A double-stage scale-free topology evolution model," *Computer Networks*, Volume 200, 2021, doi: 10.1016/j.comnet.2021.108521. ISI
- [209] W. -C. Chien, M. M. Hassan, A. Alsanad and G. Fortino, "UAVAssist Joint Wireless Power Transfer and Data Collection Mechanism for Sustainable Precision Agriculture in 5G," in *IEEE Micro*, doi: 10.1109/MM.2021.3122553. ISI
- [210] Mabrook S. Al-Rakhami, Abdu Gumaei, Mohammad Mehedi Hassan, Atif Alamri, Musaed Alhusein, Md. Abdur Razzaque, Giancarlo Fortino, "A deep learning-based edge-fog-cloud framework for driving behavior management," *Computers & Electrical Engineering*, Volume 96, Part B, 2021, <https://doi.org/10.1016/j.compeleceng.2021.107573>. ISI
- [211] Giancarlo Fortino, Antonella Guzzo, Michele Ianni, Francesco Leotta, Massimo Mecella, "Predicting activities of daily living via temporal point processes: Approaches and experimental results," *Computers & Electrical Engineering*, Volume 96, Part B, 2021, Doi: 10.1016/j.compeleceng.2021.107567. ISI
- [212] Giancarlo Fortino, Lidia Fotia, Fabrizio Messina, Domenico Rosaci, Giuseppe M.L. Sarné, "Trusted Object Framework (TOF): A clustering reputation-based approach using edge computing for sharing resources among IoT smart objects," *Computers & Electrical Engineering*, Volume 96, Part B, 2021, Doi: 10.1016/j.compeleceng.2021.107568. ISI
- [213] Abdu Gumaei, Walaa N. Ismail, Md. Rafiul Hassan, Mohammad Mehedi Hassan, Ebtsam Mohamed, Abdullah Alelaiwi, Giancarlo Fortino, "A Decision-Level Fusion Method for COVID-19 Patient Health Prediction," *Big Data Research*, Volume 27, 2022, doi: 10.1016/j.bdr.2021.100287. ISI
- [214] Sen Qiu, Hongkai Zhao, Nan Jiang, Zhelong Wang, Long Liu, Yi An, Hongyu Zhao, Xin Miao, Ruichen Liu, Giancarlo Fortino, "Multi-sensor information fusion based on machine learning for real applications in human activity recognition: State-of-the-art and research challenges," *Information Fusion*, Volume 80, 2022, Pages 241-265, DOI: 10.1016/j.inffus.2021.11.006. ISI
- [215] Omer Deperlioglu, Utku Kose, Deepak Gupta, Ashish Khanna, Fabio Giampaolo, Giancarlo Fortino, "Explainable framework for Glaucoma diagnosis by image processing and convolutional neural network synergy: Analysis with doctor evaluation," *Future Generation Computer Systems*, 2021, doi: 10.1016/j.future.2021.11.018. ISI
- [216] X. Fu, P. Pace, G. Aloï, W. Li and G. Fortino, "Cascade Failures Analysis of Internet of Things under Global/Local Routing Mode," in *IEEE Sensors Journal*, doi: 10.1109/JSEN.2021.3133912. ISI

- [217] N. G. T. Gunaratne, M. Abdollahian, S. Huda, M. Ali and G. Fortino, "An edge tier task offloading to identify sources of variance shifts in smart grid using a hybrid of wrapper and filter approaches," in *IEEE Transactions on Green Communications and Networking*, doi: 10.1109/TGCN.2021.3137330. [ISI]
- [218] R. Wang, Y. Zhang, G. Fortino, Q. Guan, J. Liu and J. Song, "Software Escalation Prediction Based on Deep Learning in the Cognitive Internet of Vehicles," in *IEEE Transactions on Intelligent Transportation Systems*, doi: 10.1109/TITS.2022.3140903. [ISI]
- [219] K. Lin, J. Gao, Y. Li, C. Savaglio and G. Fortino, "Multi-Granularity Collaborative Decision With Cognitive Networking in Intelligent Transportation Systems," in *IEEE Transactions on Intelligent Transportation Systems*, doi: 10.1109/TITS.2022.3151754. [ISI]
- [220] E. L. C. Macedo, F. C. Delicato, L. F. M. d. Moraes and G. Fortino, "Assigning Trust to Devices in the Context of Consumer IoT Applications," in *IEEE Consumer Electronics Magazine*, doi: 10.1109/MCE.2022.3154357. [ISI]
- [221] Victor Chang, Le Minh Thao Doan, Alessandro Di Stefano, Zhili Sun, Giancarlo Fortino, "Digital payment fraud detection methods in digital ages and Industry 4.0," *Computers & Electrical Engineering*, Volume 100, 2022, doi:10.1016/j.compeleceng.2022.107734. [ISI]
- [222] M. Monem, M. G. R. Alam, M. Abdullah-Al-Wadud, M. Hassan, S. Huda and G. Fortino, "An Industry 4.0 Compliant Sustainable Bitcoin Model through Optimized Transaction Selection & Sustainable Block Integration," in *IEEE Transactions on Industrial Informatics*, doi: 10.1109/TII.2022.3159673. [ISI]
- [223] R. Wang, Y. Zhang, L. Peng, G. Fortino and P. -H. Ho, "Time-varying-aware network traffic prediction via deep learning in IIoT," in *IEEE Transactions on Industrial Informatics*, doi: 10.1109/TII.2022.3163558. [ISI]
- [224] F. Lin *et al.*, "Adaptive Multimodal Fusion Framework for Activity Monitoring of People with Mobility Disability," in *IEEE Journal of Biomedical and Health Informatics*, doi: 10.1109/JBHI.2022.3168004. [ISI]
- [225] R. Casadei, G. Fortino, D. Pianini, A. Placuzzi, C. Savaglio and M. Viroli, "A Methodology and Simulation-based Toolchain for Estimating Deployment Performance of Smart Collective Services at the Edge," in *IEEE Internet of Things Journal*, doi: 10.1109/JIOT.2022.3172470. [ISI]
- [226] Md. Mamunur Rashid, Joarder Kamruzzaman, Mohammad Mehedi Hassan, Tasadduq Imam, Santoso Wibowo, Steven Gordon, Giancarlo Fortino, "Adversarial Training for Deep Learning-based Cyberattack Detection in IoT-based Smart City Applications," *Computers & Security*, 2022, <https://doi.org/10.1016/j.cose.2022.102783>. [ISI]
- [227] Yue, W.; Qi, J.; Song, X.; Fan, S.; Fortino, G.; Chen, C.-H.; Xu, C.; Ren, H. Origami-Inspired Structure with Pneumatic-Induced Variable Stiffness for Multi-DOF Force-Sensing. *Sensors* **2022**, *22*, 5370. <https://doi.org/10.3390/s22145370> [ISI]
- [228] G. D'Aniello, R. Gravina, M. Gaeta and G. Fortino, "Situation-Aware Sensor-Based Wearable Computing Systems: A Reference Architecture-Driven Review," in *IEEE Sensors Journal*, vol. 22, no. 14, pp. 13853-13863, 15 July15, 2022, doi: 10.1109/JSEN.2022.3180902. [ISI]
- [229] Fortino, G.; Guerrieri, A.; Pace, P.; Savaglio, C.; Spezzano, G. IoT Platforms and Security: An Analysis of the Leading Industrial/Commercial Solutions. *Sensors* **2022**, *22*, 2196. <https://doi.org/10.3390/s22062196> [ISI]
- [230] Longxin Lin, Zhenxiong Xu, Chien-Ming Chen, Ke Wang, Rafiul Hassan, Golam Rabiul Alam, Mohammad Mehedi Hassan, Giancarlo Fortino, "Understanding the impact on convolutional neural networks with different model scales in AIoT domain," *Journal of Parallel and Distributed Computing*, 2022, <https://doi.org/10.1016/j.jpdc.2022.07.011>. [ISI]
- [231] Lidia Fotia, Flavia Delicato, Giancarlo Fortino, "Trust in Edge-based Internet of Things architectures: State of the art and Research Challenges," has been accepted for publication in *ACM Computing Surveys (CSUR)*, accepted on Aug 3 2022. [ISI]
- [232] P. Xu *et al.*, "Adversarial Robustness in Graph-Based Neural Architecture Search for Edge AI Transportation Systems," in *IEEE Transactions on Intelligent Transportation Systems*, 2022, doi: 10.1109/TITS.2022.3197713. [ISI]
- [233] Fortino, G., Greco, C., Guzzo, A. *et al.* Identification and prediction of attacks to industrial control systems using temporal point processes. *J Ambient Intell Human Comput* (2022). <https://doi.org/10.1007/s12652-022-04416-5> [ISI]

- [234] G. Fortino, L. Fotia, F. Messina, D. Rosaci and G. M. L. Sarnè, "A Social Edge-Based IoT Framework Using Reputation-Based Clustering for Enhancing Competitiveness," in *IEEE Transactions on Computational Social Systems*, 2022, doi: 10.1109/TCSS.2022.3208376. [ISI]
- [235] K. Lin, H. Wang, B. Chen and G. Fortino, "Hypergraph-Based Autonomous Networks: Adaptive Resource Management and Dynamic Resource Scheduling," in *IEEE Communications Standards Magazine*, vol. 6, no. 3, pp. 16-22, September 2022, doi: 10.1109/MCOMSTD.0001.2100109. [ISI]
- [236] N. Quadar, A. Chehri, G. Jeon, M. M. Hassan and G. Fortino, "Cybersecurity Issues of IoT in Ambient Intelligence (AmI) Environment," in *IEEE Internet of Things Magazine*, vol. 5, no. 3, pp. 140-145, September 2022, doi: 10.1109/IOTM.001.2200009.
- [237] K. Wang et al., "Statistics-Physics-Based Interpretation of the Classification Reliability of Convolutional Neural Networks in Industrial Automation Domain," in *IEEE Transactions on Industrial Informatics*, vol. 19, no. 2, pp. 2165-2172, Feb. 2023, doi: 10.1109/TII.2022.3202950. [ISI]
- [238] Z. Lv, C. Cheng, A. Guerrieri and G. Fortino, "Behavioral Modeling and Prediction in Social Perception and Computing: A Survey," in *IEEE Transactions on Computational Social Systems*, doi: 10.1109/TCSS.2022.3230211. [ISI]
- [239] Claudia Greco, Giancarlo Fortino, Bruno Crispo & Kim-Kwang Raymond Choo (2022) AI-enabled IoT penetration testing: state-of-the-art and research challenges, *Enterprise Information Systems*, DOI: [10.1080/17517575.2022.2130014](https://doi.org/10.1080/17517575.2022.2130014) [ISI]
- [240] Xiuwen Fu, Pasquale Pace, Gianluca Aloï, Antonio Guerrieri, Wenfeng Li, and Giancarlo Fortino. 2023. Tolerance Analysis of Cyber-Manufacturing Systems to Cascading Failures. *ACM Trans. Internet Technol.* Just Accepted (January 2023). <https://doi.org/10.1145/3579847> [ISI]
- [241] Menshawi, A.; Hassan, M.M.; Allheeb, N.; Fortino, G. A Hybrid Generic Framework for Heart Problem Diagnosis Based on a Machine Learning Paradigm. *Sensors* **2023**, *23*, 1392. <https://doi.org/10.3390/s23031392> [ISI]
- [242] Alizadehsani, R.; Roshanzamir, M.; Izadi, N.H.; Gravina, R.; Kabir, H.M.D.; Nahavandi, D.; Alinejad-Rokny, H.; Khosravi, A.; Acharya, U.R.; Nahavandi, S.; Fortino, G. Swarm Intelligence in Internet of Medical Things: A Review. *Sensors* **2023**, *23*, 1466. <https://doi.org/10.3390/s23031466> [ISI]
- [243] Avellaneda, D.; Mendez, D.; Fortino, G. A TinyML Deep Learning Approach for Indoor Tracking of Assets. *Sensors* **2023**, *23*, 1542. <https://doi.org/10.3390/s23031542> [ISI]
- [245] A. Sabato, S. Dabetwar, N. N. Kulkarni and G. Fortino, "Non-contact sensing techniques for AI-aided structural health monitoring: a systematic review," in *IEEE Sensors Journal*, doi: 10.1109/JSEN.2023.3240092. [ISI]
- [246] Bourechak, A.; Zedadra, O.; Kouahla, M.N.; Guerrieri, A.; Seridi, H.; Fortino, G. At the Confluence of Artificial Intelligence and Edge Computing in IoT-Based Applications: A Review and New Perspectives. *Sensors* **2023**, *23*, 1639. <https://doi.org/10.3390/s23031639> [ISI]
- [247] S. T. Nabi et al., "Deep Learning based Fusion Model for Multivariate LTE Traffic Forecasting and Optimized Radio Parameter Estimation," in *IEEE Access*, doi: 10.1109/ACCESS.2023.3242861. [ISI]
- [248] Barbuto, V.; Savaglio, C.; Chen, M.; Fortino, G. Disclosing Edge Intelligence: A Systematic Meta-Survey. *Big Data Cogn. Comput.* **2023**, *7*, 44. <https://doi.org/10.3390/bdcc7010044> [Scopus]

### Guest Editorials in Journals

- [1] G. Fortino, C.E. Palau, "Streaming Content Distribution Networks for e-Learning and e-Entertainment," *International Journal of Interactive Technology and Smart Education*, special issue editorial, Vol. 3, n. 1, pp. 3-8, 2006. -Inspec-
- [2] G. Fortino, C. Mastroianni, "Enhancing Content Networks with P2P, GRID and Agent Technologies" in *Future Generation Computer Systems The International Journal of Grid Computing: Theory, Methods and Applications*, special issue editorial, 24(3), pp. 177-179. Elsevier, Amsterdam, The Netherlands, 2008. --ISI--
- [3] M. Cossentino, G. Fortino, W. Russo, "Multi-Agent Systems and Simulation" *International Journal on Agent Oriented Software Engineering*, special issue editorial, Inderscience, 2(2), pp. 129-131, 2008. -- SCOPUS - -
- [4] G. Fortino, C. Mastroianni, "Content Management and Delivery through P2P-based Content Networks" in *Multi-Agent and Grid Systems*, special issue editorial, IOS Press, 5(2), 2009, pp. 1-3. -- SCOPUS - -

- [5] G. Fortino, C. Mastroianni, "Next Generation Content Networks", in *Journal of Network and Computer Applications*, special issue editorial, Elsevier, 2009, 32(5), pp. 941-942, Sept. 2009. -- ISI--
- [6] M. Cossentino, G. Fortino, M. Gleizes M., J. Pavon, "Simulation-based Design and Evaluation of Multi-Agent Systems (guest editorial)". *Simulation Modelling Practice and Theory Journal*, 18(10), pp. 1425-1427, 2010. Elsevier. ISSN 1569-190X. --ISI--
- [7] G. Fortino, C. Mastroianni, G. Pallis, M. Pathan, A. Vakali, "Internet-based Content Delivery (guest editorial)". *Computer Networks*, 55(18), pp. 3987-3990, 2011. Elsevier. DOI:10.1016/j.comnet.2011.09.009 --ISI--
- [8] G. Fortino, "Editorial: Special Issue on Intelligent Distributed Computing 2012", *Concurrent Engineering: Research and Applications*, 21(3), pp. 173-175, 2013. DOI:10.1177/1063293X13495552 -ISI-
- [9] Giancarlo Fortino, Xu Li, Xiaodong Lin, Oscar Mayora, Enrico Natalizio, Mehmet Rasit Yuce, "Wireless Technology for Pervasive Healthcare: guest editorial", *Mobile Networks and Applications*, 2014. DOI: 10.1007/s11036-013-0472-9 -ISI-
- [10] Giancarlo Fortino and Mukaddim Pathan, "Integration of Cloud Computing and Body Sensor Networks: guest editorial," in *Future Generation Computer Systems*, Vol.35. 2014. -ISI-
- [11] G. Fortino, M. Bal, W. Li, W. Shen, "Collaborative Wireless Sensor Networks: Guest Editorial", *Information Fusion*, Vol. 22. 2015. -ISI-
- [12] Yang Xiang, Mukaddim Pathan, Guiyi Wei, Giancarlo Fortino, "Availability, Resilience, and Fault tolerance of Internet and Distributed Computing Systems", *Concurrency Computation Practice and Experience*, 27(10), 2015. -ISI-
- [13] Giancarlo Fortino, "Agent-oriented Methods for Engineering Complex Distributed Systems" *Journal of Engineering Applications of Artificial Intelligence*. Vol. 41. pp. 285-286, 2015. -ISI-
- [14] Giancarlo Fortino, Raffaele Gravina, Wenfeng Li, Mohammad Mehdi Hassan, and Antonio Liotta, "Enhancing Internet and Distributed Computing Systems with Wireless Sensor Networks," *International Journal of Distributed Sensor Networks*, vol. 2015, Article ID 564695, 2 pages, 2015. doi:10.1155/2015/564695 -ISI-
- [15] M. Zhou, G. Fortino, W. Shen, J. Mitsugi, J. Jobin, R. Bhatthacharryya, "Advances and Applications of Internet of Things for Smart Automated Systems," *IEEE Transactions on Automation Science and Engineering*, 2016. -ISI-
- [16] Sergio F. Ochoa, Weiming Shen, Giancarlo Fortino, and Wenfeng Li, "Editorial: Emerging Trends in Mobile Collaborative Systems," *Mobile Information Systems*, Article ID 3421901, Hindawi Publishing Corporation. -ISI-
- [17] G. Fortino, G-Z. Yang, "Best of Bodynets 2014: Editorial," *IEEE Transactions on Affective Computing*, 7(3), 2016. doi:10.1109/TAFFC.2016.2595418. -ISI-
- [18] G. Fortino, G. Di Fatta, S. Ochoa, C. Palau, "Engineering Future Interoperable and Open IoT Systems: Editorial", *Journal of Network and Computer Applications*, Volume 81, 1 March 2017. -ISI-
- [19] Giancarlo Fortino, Maria Ganzha, Carlos Palau, and Marcin Paprzycki, "Interoperability in the Internet of Things," December 2016, *Computing Now*, <https://www.computer.org/web/computingnow/archive/interoperability-in-the-internet-of-things-december-2016-introduction>, IEEE Computer Society.
- [20] J. Yong, G. Fortino, W. Shen, Y. Yang, K. M. Chao and W. van der Aalst, "Special Issue on Service-Oriented Collaborative Computing and Applications," in *IEEE Transactions on Services Computing*, vol. 11, no. 2, pp. 277-278, March-April 1 2018. doi: 10.1109/TSC.2017.2764559 -ISI-
- [21] S. F. Ochoa, G. Fortino, G. Di Fatta, "Cyber-Physical Systems, Internet of Things and Big Data", *Future Generation Computer Systems*, Vol. 75, pp. 82-84, Oct. 2017. -ISI-
- [22] Tülay Yıldırım, Giancarlo Fortino, "Special issue on artificial intelligence in modeling and simulation", *SIMULATION*, Vol 93, Issue 9, pp. 725 - 726, August-18-2017. DOI: 10.1177/0037549717727362 -ISI-



- [23] Yin Zhang, Giancarlo Fortino, Honggang Wang, Wei Wang: IEEE Access Special Section Editorial: Emotion-Aware Mobile Computing. *IEEE Access* 5: 12185-12188 (2017) -ISI-
- [24] G. Fortino, H. Ghasemzadeh, R. Gravina, P. X. Liu, C. C.Y. Poon, Z. Wang, "Advances in Multi-Sensor Fusion for Body Sensor Networks: Algorithms, Architectures, and Applications", *Information Fusion*, 45, pp. 150-152, DOI:10.1016/j.inffus.2018.01.012. 2019. -ISI-
- [25] Ladislau Matekovits, Giancarlo Fortino, et al. "IEEE Access Special Section Editorial: Body Area Networks," in *IEEE Access*, vol. 6, pp. 30990-30995, 2018. doi: 10.1109/ACCESS.2018.2844481. -ISI-
- [26] G. Fortino et al., "Guest Editorial Special Issue on Emerging Social Internet of Things: Recent Advances and Applications," in *IEEE Internet of Things Journal*, vol. 5, no. 4, pp. 2478-2482, Aug. 2018. doi: 10.1109/JIOT.2018.2860339 -ISI-
- [27] Y. Zhang, M. Chen, V. C. M. Leung, T. Xing and G. Fortino, "Guest Editorial Special Issue on Cognitive Internet of Things," in *IEEE Internet of Things Journal*, vol. 5, no. 4, pp. 2259-2262, Aug. 2018. doi: 10.1109/JIOT.2018.2860301 -ISI-
- [28] Editorial Note: Emotion-Aware Healthcare Systems Integrating with Wearable and Cloud Computing Y Zhang, G Fortino, L Hu, K Lin, *Multimedia Tools and Applications* 77 (17), 21823-21823, 2018. -ISI-
- [29] G. Fortino, Y. Li, M. Yuce and R. Jafari, "Guest Editorial Special Issue on Next-Generation Smart Body Sensor Networks: From Autonomic Body Sensors to Cognitive Body Sensor Network Ecosystems," in *IEEE Sensors Journal*, vol. 19, no. 19, pp. 8370-8370, 1 Oct.1, 2019. doi: 10.1109/JSEN.2019.2924500 -ISI-
- [30] Matti Hämäläinen, Daisuke Anzai, Giancarlo Fortino, Jari Iinatti, Lorenzo Mucchi & Carlos Pomalaza-Raez, "Preface to Special Issue on Wireless Body Area Networks: Based on Bodynets 2018 Conference", *Journal International Journal of Wireless Information Networks*, DOI: 10.1007/s10776-020-00480-w -ISI-
- [31] G. Franze, G. Fortino, X. Cao, G. M. L. Sarne and Z. Song, "Resilient control in large-scale networked cyber-physical systems: Guest editorial," in *IEEE/CAA Journal of Automatica Sinica*, vol. 7, no. 5, pp. 1201-1203, September 2020, doi: 10.1109/JAS.2020.1003327. -ISI-
- [32] Y. Zhang, G. Fortino, L. Peng, I. Humar and J. Sun, "IEEE Access Special Section Editorial: Artificial Intelligence and Cognitive Computing for Communication and Network," in *IEEE Access*, vol. 8, pp. 144105-144111, 2020, doi: 10.1109/ACCESS.2020.3014475. -ISI-
- [33] M. Hämäläinen, D. Anzai, G. Fortino, J. Iinatti, L. Mucchi and C. Pomalaza-Ráez, "IEEE Access Special Section Editorial: Wireless Body Area Networks," in *IEEE Access*, vol. 8, pp. 149036-149040, 2020, doi: 10.1109/ACCESS.2020.3015617. -ISI-
- [34] A. Amini, W. Chen, G. Fortino, Y. Li, Y. Pan and M. D. Wang, "Editorial Special Issue on "AI-Driven Informatics, Sensing, Imaging and Big Data Analytics for Fighting the COVID-19 Pandemic"," in *IEEE Journal of Biomedical and Health Informatics*, vol. 24, no. 10, pp. 2731-2732, Oct. 2020, doi: 10.1109/JBHI.2020.3025594. -ISI-
- [35] Wong, Kelvin K. L.; Ghista, Dhanjoo; Fortino, Giancarlo, "Editorial: Cardiovascular Physiology and Medical Assessments: Physics and Engineering Perspectives." DOI:10.3389/fphy.2020.626302. In *FRONTIERS IN PHYSICS* - ISSN:2296-424X vol. 8, 2021. -ISI-
- [36] M. Chen *et al.*, "Guest Editorial: Learning-Based Edge Computing Services," in *IEEE Network*, vol. 35, no. 1, pp. 138-140, March/April 2021, doi: 10.1109/MNET.2021.9355037. -ISI-
- [37] Raffaele Montella, Giancarlo Fortino, Eleni Karatza, "Special Issue on IoT modeling and simulation in smart-anything computation at the Edge," *Simulation Modelling Practice and Theory*, 2021, ISSN 1569-190X, <https://doi.org/10.1016/j.simpat.2021.102308>. -ISI-
- [38] Giancarlo Fortino, MengChu Zhou, Mohammad Mehedi Hassan, Mukaddim Pathan, Stamatis Karnouskos, "Pushing Artificial Intelligence to the Edge: Emerging trends, issues and challenges," *Engineering Applications of Artificial Intelligence*, Volume 103, 2021, 104298, ISSN 0952-1976, <https://doi.org/10.1016/j.engappai.2021.104298> -ISI-

- [39] G. Fortino, R. Buyya, M. Chen and F. Herrera, "Special Issue on Methods and Infrastructures for Data Mining at the Edge of Internet of Things," in *IEEE Internet of Things Journal*, vol. 8, no. 13, pp. 10220-10221, 1 July1, 2021, doi: 10.1109/JIOT.2021.3075304. -ISI-
- [40] M. M. Hassan et al., "Guest Editorial for Special Issue on Blockchain for Internet-of-Things and Cyber-Physical Systems," in *IEEE/CAA Journal of Automatica Sinica*, vol. 8, no. 12, pp. 1867-1867, December 2021, doi: 10.1109/JAS.2021.1004219. -ISI-
- [41] Huimin Lu, Liao Wu, Giancarlo Fortino, and Schahram Dustdar. 2021. Introduction to the Special Section on Cognitive Robotics on 5G/6G Networks. *ACM Trans. Internet Technol.* 21, 4, Article 91e (November 2021), 3 pages. DOI:https://doi.org/10.1145/3476466. -ISI-
- [42] Y. Zhang, A. Al-Fuqaha, G. Fortino, L. Peng, I. Humar and H. Wang, "Guest Editorial: Introduction to the Special Section on Advanced Networking Technologies in the Battle Against the Outbreak of Epidemic Diseases," in *IEEE Transactions on Network Science and Engineering*, vol. 9, no. 1, pp. 245-246, 1 Jan.-Feb. 2022, doi: 10.1109/TNSE.2021.3134379. -ISI-
- [43] Andrzej Goscinski, Flavia C. Delicato, Giancarlo Fortino, Anna Kobusińska, Gautam Srivastava, Special issue on Distributed Intelligence at the Edge for the Future Internet of Things, *Journal of Parallel and Distributed Computing*, Volume 171, 2023, Pages 157-162, ISSN 0743-7315, https://doi.org/10.1016/j.jpdc.2022.09.014. -ISI-

#### Book Chapters and Miscellaneous Volumes (LNCS, LNAI, LNEE, ...)

- [1] G. Fortino, "The learning of a class of n-dimensional boolean functions with a two input Perceptron using the Boosting Algorithm", in C.F. Morabito, editor, *Advances in Intelligent Systems*, IOS Press, pp. 372-377, 1997.
- [2] G. Fortino, L. Nigro, "Collaborative Learning on-Demand on the Internet MBone", in Claude Ghaoui, editor, *Usability Evaluation of Online Learning Programs*, Idea Group Publishing, pp. 40-68, USA, 2003.
- [3] G. Fortino, A. Garro, W. Russo, "From Modeling to Simulation of Multi-Agent Systems: an integrated approach and a case study", in *Multiagent System Technology (MATES)*, Springer-Verlag, *LNAI (Lecture Notes on Artificial Intelligence)* Vol. 3187, pp. 213-226, 2004.
- [4] G. Fortino, "Collaborative Learning on-Demand", in Mehdi Khosrow-Pour, editor, *Encyclopedia of Information Science and Technology I-IV*, Idea Publishing Group, Hershey (PA), USA, pp. 445-450, 2005.
- [5] G. Fortino, A. Garro, W. Russo, "E-commerce Services based on Mobile Agents", in Mehdi Khosrow-Pour, editor, *Encyclopedia of E-Commerce, E-Government and Mobile Commerce*, Idea Publishing Group, Hershey (PA), USA, 2006.
- [6] G. Fortino, C.E. Palau, "An Open Streaming Content Distribution Network", in Arthur Tatnall, editor, *Encyclopaedia of Portal Technology and Applications*, Idea Publishing Group, Hershey (PA), USA, pp. 677-683, 2007.
- [7] G. Fortino, C. Mastroianni, W. Russo, "Collaborative Media Streaming Services based on Content Delivery Networks" in *Content Delivery Networks: Principles and Paradigms (Editors: Rajkumar Buyya, Mukaddim Pathan, and Athena Vakali)*, *Lecture Notes Electrical Engineering, Vol. 9, Cap. 12*, Springer, pp. 297-316, Aug, 2008.
- [8] G. Fortino, A. Garro, W. Russo, "Enabling the Reuse of Platform-Dependent Agents in Heterogeneous Agent-based Applications" *Languages, Methodologies and Development Tools for Multi-Agent Systems, LNAI (Lecture Notes on Artificial Intelligence) 5118*, pp. 209-224, 2008.
- [9] G. Fortino, F. Rango, W. Russo, "Statecharts-based JADE agents and tools for engineering Multi-Agent Systems", in *Knowledge-Based and Intelligent Information and Engineering Systems, 14th International Conference, KES 2010, Cardiff, UK, September 8-10, 2010, Proceedings, Part I*, (R. Setchi, I. Jordanov, R. J. Howlett, and L. C. Jain, eds), Berlin: SpringerVerlag, LNAI 6276, pp. 240-250, 2010.
- [10] A. Andreoli, R. Gravina, R. Giannantonio, P. Pierleoni, G. Fortino, "SPINE-HRV: a BSNbased Toolkit for Heart Rate Variability Analysis in the Time-Domain", accepted as chapter for the publication in the book", In *Wearable and Autonomous Biomedical Devices and Systems for Smart Environments: New issues and*

Characterization (Mukhopadhyay, Subhas Chandra; Lay-Ekuakille, Aimè, eds) Berlin: Springer-Verlag, 2010, Lecture Notes on Electrical Engineering Vol. 75, pp. 369-389, DOI: 10.1007/978-3-642-15687-8\_19.

- [11] A. Aiello, G. Fortino, S. Galzarano, R. Gravina, A. Guerrieri, "Signal processing in-node frameworks for Wireless Body Sensor Networks: from low-level to high-level approaches" *"Wireless Body Area Networks: Technology, Implementation and Applications"* (Mehmet R. Yuce and Jamil Y. Khan, eds), Chapter 5, Pan Stanford Publishing, 2011. ISBN: 978-981-431-6712 (printed book), 978-981-424-1571 (ebook). <http://www.panstanford.com/books/9789814316712.html>
- [12] A. Guerrieri, G. Fortino, A. Ruzzelli, and G.M.P. O'Hare, "A WSN-based Building Management Framework to Support Energy-Saving Applications in Buildings," In *"Advancements in Distributed Computing and Internet Technologies: Trends and Issues"* (Al-Sakib Khan Pathan, Mukaddim Pathan, Hae Young Lee, eds), Chapter 12, pp. 258-273, IGI Global, 2012. DOI: 10.4018/978-1-61350-110-8.ch012
- [13] F. Aiello, G. Fortino, S. Galzarano, A. Vittorioso, "TinyMAPS: a lightweight Java-based Mobile Agent System for Wireless Sensor Networks", in *5th International Symposium on Intelligent Distributed Computing (IDC2011), Oct. 5-7, Delft, The Netherlands, 2012*.  
In *Intelligent Distributed Computing V*, Studies in Computational Intelligence, 2012, Volume 382/2012, 161-170, DOI: 10.1007/978-3-642-24013-3\_16.
- [14] R. Conforti, G. Fortino, M. La Rosa, and A. ter Hofstede, "History-Aware, Real-Time Risk Detection in Business Processes". in *19th International Conference on Cooperative Information Systems (CoopIS 2011), Crete, Greece, Oct 19 - 21, 2011 (21% acceptance rate)*.  
In *Robert Meersman, Tharam S. Dillon, Pilar Herrero, Akhil Kumar, Manfred Reichert, Li Qing, Beng Chin Ooi, Ernesto Damiani, Douglas C. Schmidt, Jules White, Manfred Hauswirth, Pascal Hitzler, Mukesh K. Mohania (Eds.): On the Move to Meaningful Internet Systems: OTM 2011 - Confederated International Conferences: CoopIS, DOA-SVI, and ODBASE 2011, Hersonissos, Crete, Greece, October 17-21, 2011, Proceedings, Part I. Lecture Notes in Computer Science 7044 Springer 2011, ISBN 978-3-642-25108-5*
- [15] M. Essaaidi, G. Fortino, "Wireless Sensor Networks and Software Agents", in *NATO Software Agents, Agent Systems and their Applications (M. Paprizicky and M. Essaïdi, Eds.)*, Information and Communication Security Vol. 32. Cap. 3, IOS press. 2012. pp. 85-129.
- [16] G. Fortino, W. Russo, "Real-time Multimedia Services based on Event-driven Mobile Agents and Multimedia Coordination Spaces", In *Next Generation Content Delivery Infrastructures: Emerging Paradigms and Technologies* (G. Fortino and C.E. Palau, Eds.), IGI Global, 2012. Chapter 9, pp. 199-229. DOI:10.4018/978-1-4666-1794-0.ch009
- [17] G. Fortino, Carlos Calafate, and P. Manzoni, "A Robust Broadcast-based Multimedia Content Delivery System for Urban Environments", In *Next Generation Content Delivery Infrastructures: Emerging Paradigms and Technologies* (G. Fortino and C.E. Palau, Eds.), IGI Global, 2012. Chapter 5, pp. 105-120. DOI:10.4018/978-1-4666-1794-0.ch005
- [18] G. Fortino and S. Galzarano. "On the development of mobile agent systems for wireless sensor networks: issues and solutions". In *Multiagent Systems and Applications (M. Ganzha & L. C. Jain, Eds), Chapter 8, pp. 185-215, Intelligent Systems Reference Library Vol. 45, Springer-Verlag Berlin Heidelberg, 2013*.
- [19] D. L. Carnì, G. Fortino, R. Gravina, D. Grimaldi, A. Guerrieri, F. Lamonaca, "Monitoring Assisted Livings through Wireless Body Sensor Networks," In *Advanced Distributed Measuring Systems - Exhibits of Application* (Vladimir Haasz, Ed.), Chapter 9, pp. 211-241, River Publishers, 2012. ISBN: 978-87-92329-72-1.
- [20] M. Mesjasz, D. Cimadoro, S. Galzarano, M. Ganzha, G. Fortino, M. Paprzycki "Integrating JADE and MAPS for the development of Agent-oriented WSN-based distributed applications", In 6th Intelligent Distributed Computing (IDC 2012), Calabria, Sept. 24-26, 2012. In *Intelligent Distributed Computing VI, Studies in Computational Intelligence*, Vol.446, 2013.
- [21] G. Fortino, F. Rango, W. Russo, "ELDAMeth Design Process", in *Handbook on Agent-Oriented Design Processes* (Massimo Cossentino, Vincent Hilaire, Ambra Molesini, Valeria Seidita, Eds), Springer, 2014, pag. 115-139, DOI:10.1007/978-3-642-39975-6\_5

- [22] G. Fortino, R. Gravina, R. Giannantonio, D. Brunelli (contributors), "Healthcare Applications of Cooperating Objects", In *The Emerging Domain of Cooperating Objects: Applications and Markets* (Stamatis Karnouskos, Eds.), Springer, 2014.
- [23] G. Fortino, C. Calafate, J.C. Cano, P. Manzoni, "Robust Broadcasting in Vehicular Networks," in *Advanced Content Delivery and Streaming in the Cloud* (M. Pathan et al. eds), Chapter 22, pp. 431-448, Wiley, 2014.
- [24] G. Fortino, A. Guerrieri, M. Lacopo, M. Lucia, and W. Russo, "An Agent-based Middleware for Cooperating Smart Objects", in *Highlights on Practical Applications of Agents and Multi-Agent Systems* (J.M. Corchado, J. Bajo, J. Kozlak, P. Pawlewski, J.M. Molina, V. Julian, R.A. Silveira, R. Unland, S. Giroux, eds.), Communications in Computer and Information Science (CCIS), Vol. 365, pp. 387-398, Springer Berlin Heidelberg, 2013.
- [25] G. Fortino, W. Russo, C. Santoro, "Translating Statecharts-based into BDI Agents: The DSC/PROFETA case", in *MATES/JAW 2013, Lecture Notes in Computer Science (LNCS)*, Vol. 8076, pp. 1-14, 2013.
- [26] M. Niazi, A. Siddiq, G. Fortino, "Modelling AIDS Spread in Social Networks: an in-silico study using exploratory agent-based modeling", in *MATES/JAWS 2013, Lecture Notes in Computer Science (LNCS)*, Vol. 8076, pp. 1-14, 2013.
- [27] P. Carreño, F. Gutierrez, S. F. Ochoa, and G. Fortino, "Using Human-centric Wireless Sensor Networks to Support Personal Security", *IDCS 2013, Lecture Notes in Computer Science (LNCS)*, Vol. 8223, pp. 1-14, 2013.
- [28] G. Fortino, M. Lakovic, W. Russo, P. Trunfio, "A discovery service for smart objects over an agent-based middleware", *IDCS 2013, Lecture Notes in Computer Science (LNCS)*, Vol. 8223, pp. 1-14, 2013.
- [29] S. Galzarano, G. Fortino, and A. Liotta, "QL-MAC: a Q-Learning based MAC for Wireless Sensor Networks," in *Algorithms and Architectures for Parallel Processing, Part II*, Lecture Notes on Computer Science (LNCS), Vol. 8286, Springer, 2013.
- [30] G. Fortino, A. Guerrieri, W. Russo, C. Savaglio, "Middlewares for Smart Objects and Smart Environments: Overview and Comparison", in *Internet of Things based on Smart Objects: technology, middleware and applications*, Springer Series on the Internet of Things: Technology, Communications and Computing. 2014.
- [31] Lin Yang, Wenfeng Li, Yanhong Ge, Xiuwen Fu, Raffaele Gravina, Giancarlo Fortino, "People-Centric service for mHealth of Wheelchair User in Smart Cities", in *Internet of Things based on Smart Objects: technology, middleware and applications*, Springer Series on the Internet of Things: Technology, Communications and Computing. 2014.
- [32] Giancarlo Fortino, Anna Rovella, Wilma Russo, and Claudio Savaglio, "Including Cyberphysical Smart Objects into Digital Libraries," In LNCS Vol. 8729, IDCS 2014
- [33] Francesco Cauteruccio, Giancarlo Fortino, Antonio Guerrieri, and Giorgio Terracina, "Discovery of hidden correlations between heterogeneous wireless sensor data streams," In LNCS Vol. 8729, IDCS 2014
- [34] S. Galzarano, A. Liotta, G. Fortino, "A learning-based MAC for energy efficient Wireless Sensor Networks," In LNCS Vol. 8729, IDCS 2014.
- [35] Giancarlo Fortino, Raffaele Gravina, "A Cloud-assisted Wearable System for Physical Rehabilitation", In *Communications in Computer and Information Science (CCIS)*, Chapter 8, Pages: 175-189, 2015, to appear.
- [36] G. Fortino, A. Rovella, W. Russo, C. Savaglio, "Towards Cyberphysical Digital Libraries: Integrating IoT Smart Objects into Digital Libraries", In "Management of Cyber Physical Objects in the Future Internet of Things: Methods, Architectures and Applications", Springer Series on the Internet of Things: Technology, Communications and Computing. 2015.
- [37] Andrea Omicini, Giancarlo Fortino, and Stefano Mariani, "Blending Event-Based and Multi-Agent Systems around Coordination Abstractions," In *Proc. of COORDINATION IFIP International Conference on Coordination Models and Languages*, 2015, LNCS 9037.

- [38] Antonio Guerrieri, Jordi Serra, David Pubill, Christos Verikoukiss and Giancarlo Fortino, "Intra Smart Grid Management Frameworks for Control and Energy Saving in Buildings," In Proc. of IDCS 2015, Windsor - UK, Springer LNCS 9258, Springer 2015, ISBN 978-3-319-23236-2.
- [39] Claudio Savaglio and Giancarlo Fortino, "Autonomic and Cognitive Architectures for the Internet of Things", In Proc. of IDCS 2015, Windsor - UK, Springer LNCS 9258, Springer 2015, ISBN 978-3-319-23236-2.
- [40] Giancarlo Fortino, Andrea Giordano, Antonio Guerrieri, Giandomenico Spezzano and Andrea Vinci, "A Data Analytics Schema for Activity Recognition in Smart Home Environments," In Proc. of 9th International Conference on Ubiquitous Computing and Ambient Intelligence (UCAmI 2015). LNCS 9454, Springer 2015, ISBN 978-3-319-26400-4
- [41] S. Kubler, K. Framling, A. Zaslavsky, C. Doukas, E. Olivares, G. Fortino, C. Palau, S. Soursos, I. Podnar Zarko. Y. Fang, S. Krcó, C. Heinz, C. Grimm, A. Broering, J. Mitic, K. Olstedt, and O. Vermesan, "IoT Platforms Initiative," in *Digitizing the Industry Internet of Things Connecting the Physical, Digital and Virtual Worlds* (O. Vermesan and P. Friess, eds), Chapter 9, pp. 431.448, Vol. 49, Rivers Publishers (Series in Communications), 2016. ISBN: 978-87-93379-81-7.
- [42] O. Zedadra, N. Jouandeaú, H. Seridi, G. Fortino, "Exploring unknown environments with multi-modal locomotion swarm", IDC 2016, Studies in Computational Intelligence, Springer, 2016.
- [43] M. Ganzha, M. Paprzycki, W. Pawłowski, P. Szmeja, K. Wasielewska, and G. Fortino, "Tools for ontology matching – practical considerations," IDCS 2016, Lecture Notes in Computer Science 9864, Springer 2016.
- [44] C. Ma, W. Li, J. Cao, R. Gravina, G. Fortino, "Cloud-based Wheelchair Assist System for Mobility Impaired Individuals", IDCS 2016, Lecture Notes in Computer Science 9864, Springer 2016.
- [45] X. Hu, R. Gravina, W. Li, G. Fortino, "A Neuro-Fuzzy System for Classifying Fatigue Degree of Wheelchair User", IDCS 2016, Lecture Notes in Computer Science 9864, Springer 2016.
- [46] Gianluca Aloí, Giancarlo Fortino, Pasquale Pace: A Software Defined Network Solution for Spontaneous Wireless Access Extension. pp. 515-520. *Internet of Things. IoT Infrastructures - Second International Summit, IoT 360° 2015, Rome, Italy, October 27-29, 2015, Revised Selected Papers, Part II. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering 170*, 2016, ISBN 978-3-319-47074-0.
- [47] Fortino, G., Savaglio, C., Palau, C.E., de Puga, J.S., Ghanza, M., Paprzycki, M., Montesinos, M., Liotta, A., Llop, M. Towards multi-layer interoperability of heterogeneous IoT platforms: The INTER-IoT approach (2018) In "Interoperability, Integration, and Interconnection of Internet of Things Systems," Springer Series on the Internet of Things: Technology, Communications and Computing, (9783319612997), pp. 199-232, DOI: 10.1007/978-3-319-61300-0\_10.
- [48] Claudio Savaglio, Giancarlo Fortino, Maria Ganzha, Marcin Paprzycki, Costin Badica, and Mirjana Ivanovic, "Agent-Based Computing in the Internet of Things: A Survey", Studies in Computational Intelligence 737:307-320, January 2018. DOI: 10.1007/978-3-319-66379-1\_27, In book: Intelligent Distributed Computing XI, pp.307-320.
- [49] Franco Cicirelli, Giancarlo Fortino, Antonio Guerrieri, Alessandro Mercuri, Giandomenico Spezzano, and Andrea Vinci. "Exploiting the SEM Framework for Modeling Smart Cities". In LNCS 10794: 10th International Conference on Internet and Distributed Computing Systems (IDCS 2017), 11-13 December 2017, Fiji.
- [50] Ouarda Zedadra, Claudio Savaglio, Nicolas Jouandeaú, Antonio Guerrieri, Hamid Seridi, and Giancarlo Fortino. "Towards a Reference Architecture for Swarm Intelligence-based Internet of Things". In LNCS 10794: 10th International Conference on Internet and Distributed Computing Systems (IDCS 2017), 11-13 December 2017, Fiji.
- [51] Giancarlo Fortino, Antonio Guerrieri, Domenico Rosaci, Giuseppe M.L. Sarne. "Integrating Traditional Stores and e-Commerce into a Multi-Tiered Recommender System Architecture supported by IoT". In LNCS 10794: 10th International Conference on Internet and Distributed Computing Systems (IDCS 2017), 11-13 December 2017, Fiji.

- [52] Z. Yang, M. Yu, W. Li, C. Ma, R. Gravina, and G. Fortino, "Risk driving behaviors detection using pressure cushion," In LNCS 10794: 10th International Conference on Internet and Distributed Computing Systems (IDCS 2017), 11-13 December 2017, Fiji.
- [53] Mirko Viroli, Giancarlo Fortino, Franco Zambonelli and Barbara Re, "Fluidware: an Approach towards Adaptive and Scalable Programming of the IoT," accepted *LNCS – Rocco de Nicola 65<sup>th</sup>*.
- [54] Li Q., Gravina R., Ma C., Zang W., Li Y., Fortino G. (2021) A Collaborative BSN-Enabled Architecture for Multi-user Activity Recognition. In: Fortino G., Liotta A., Gravina R., Longheu A. (eds) Data Science and Internet of Things. Internet of Things (Technology, Communications and Computing). Springer, Cham. [https://doi.org/10.1007/978-3-030-67197-6\\_6](https://doi.org/10.1007/978-3-030-67197-6_6)
- [55] Fortino G. et al. (2021) INTER-Meth: A Methodological Approach for the Integration of Heterogeneous IoT Systems. In: Palau C.E. et al. (eds) Interoperability of Heterogeneous IoT Platforms. Internet of Things (Technology, Communications and Computing). Springer, Cham. [https://doi.org/10.1007/978-3-030-82446-4\\_7](https://doi.org/10.1007/978-3-030-82446-4_7)
- [56] Palau C.E. et al. (2021) Introduction to Interoperability for Heterogeneous IoT Platforms. In: Palau C.E. et al. (eds) Interoperability of Heterogeneous IoT Platforms. Internet of Things (Technology, Communications and Computing). Springer, Cham. [https://doi.org/10.1007/978-3-030-82446-4\\_1](https://doi.org/10.1007/978-3-030-82446-4_1)
- [57] Raffaele Gravina, Giancarlo Fortino, Computational Aspects in BSN-Based Wearable Computing Systems: From Raw-Data Collection to High-Level Data Analysis, Reference Module in Biomedical Sciences, Elsevier, 2022, ISBN 9780128012383, <https://doi.org/10.1016/B978-0-12-822548-6.00136-9>.
- [58] Savaglio, C. *et al.* (2023). Edge Intelligence Against COVID-19: A Smart University Campus Case Study. In: Cicirelli, F., Guerrieri, A., Vinci, A., Spezzano, G. (eds) IoT Edge Solutions for Cognitive Buildings. Internet of Things. Springer, Cham. [https://doi.org/10.1007/978-3-031-15160-6\\_10](https://doi.org/10.1007/978-3-031-15160-6_10)
- [59] Fortino, G., Fotia, L., Messina, F., Rosaci, D., Sarné, G.M.L. (2022). A Clustering Reputation-Based Framework in Edge-Based IoT Environments. In: Camacho, D., Rosaci, D., Sarné, G.M.L., Versaci, M. (eds) Intelligent Distributed Computing XIV. IDC 2021. Studies in Computational Intelligence, vol 1026. Springer, Cham. [https://doi.org/10.1007/978-3-030-96627-0\\_41](https://doi.org/10.1007/978-3-030-96627-0_41)
- [60] Fortino, G., Guerrieri, A., Savaglio, C., Spezzano, G. (2022). A Review of Internet of Things Platforms Through the IoT-A Reference Architecture. In: Camacho, D., Rosaci, D., Sarné, G.M.L., Versaci, M. (eds) Intelligent Distributed Computing XIV. IDC 2021. Studies in Computational Intelligence, vol 1026. Springer, Cham. [https://doi.org/10.1007/978-3-030-96627-0\\_3](https://doi.org/10.1007/978-3-030-96627-0_3)

## Conferences

- [1] G. Fortino, D. Grimaldi, L. Nigro, "Distributed Measurement Patterns based on Java and Web Tools", in *Proceedings of IEEE Autotestcon97*, Anaheim, CA, USA, pp. 624-628, Sept. 22-25, 1997.
- [2] G. Fortino, L. Nigro, "QoS Centred Java and actor-based framework For real-virtual teleconferences", in *Proceedings of SCS EuroMedia98*, Leicester, UK, pp. 129-133, Jan. 4-6, 1998.
- [3] G. Fortino, D. Grimaldi, L. Nigro, "Multicast control of Mobile Measurement Systems", in *Proceedings of IEEE Instrumentation and Measurement Technology Conference (IMTC)*, St. Paul, Minnesota, USA, vol. 1, pp.108-114, May 18-21, 1998.
- [4] G. Fortino, L. Nigro, A. Albanese, "A Java Middleware for the Development of Actor-based Multimedia Systems over Internet Mbone", in *Proceedings of SCI/ISAS (International Conference on Information Systems, Analysis and Synthesis)*, Orlando (FL), USA, vol. 3, pp. 250-256, Jul. 12-16, 1998.
- [5] G. Fortino, L. Nigro, F. Pupo, "Actors and Coloured Petri Nets in the development life cycle of distributed real time Systems", in *Proceedings of IFAC LSS (Large Scale Systems: Theory & Applications)*, University of Patras, Greece, pp. 1188-1193, Jul. 15-17, 1998.
- [6] G. Fortino, L. Nigro, "A Multimedia Networking based Approach to the Development of Distributed Virtual Instruments", in *Proceedings of the IEEE Instrumentation and Measurement Technology Conference '99*, pp. 1863-1867, Venezia, Italy, May. 22-24, 1999.
- [7] G. Fortino, L. Nigro, "An Interactive and Cooperative Videorecording on-demand system over Mbone", in *Proceedings of SCS EuroMedia99*, Monaco, Germany, pp. 120-124, Apr. 25-28, 1999.

- [8] G. Fortino, L. Nigro, F. Pupo, "Supporting Communicating Real-Time State Machines by a Customisable Actor Kernel", in *Proceedings of the 24<sup>th</sup> IFAC/IFIP Workshop on Real-Time Programming*, Schloß Dagstuhl, Saarland, Germany, pp. 87-92, May 31–Jun. 2, 1999.
- [9] G. Fortino, L. Nigro, "Modeling, Analysis and Implementation of Actor-based Multimedia Systems", in *Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'99)*, Las Vegas, Nevada, USA, pp. 489-495, Jun. 28–Jul. 1, 1999.
- [10] G. Fortino, D. Grimaldi, L. Nigro, "An Agent Based Measurement Laboratory over Internet", in *Proceedings of IEEE Autotestcon'99*, S. Antonio, Texas, USA, pp. 61-66, Aug. 30–Sept. 2, 1999.
- [11] G. Fortino, D. Grimaldi, L. Nigro, "Architettura software sviluppata in Java per il laboratorio distribuito di misura", Congresso Annuale GMEE, Catania, Set. 16-18, pp. 153-154, 1999.
- [12] G. Fortino, L. Nigro, "Simulation of Multimedia Systems based on Actors and QoSsynchronizers", in *Proceedings of the 3<sup>rd</sup> IEEE International Workshop on Distributed Interactive Simulation and Real Time Applications*, University of Maryland, MD, USA, pp. 120-127, Oct. 24-28, 1999.
- [13] G. Fortino, L. Nigro, "A Methodology centered on Modularization of QoS Constraints for the Development and Performance Evaluation of Multimedia Systems", in *Proceedings of the 33<sup>rd</sup> Annual Simulation Symposium, IEEE*, Washington D.C., USA, pp. 177-184, Apr. 16-20, 2000.
- [14] G. Fortino, L. Nigro, "A Measurement on-demand Service for Access and Delivery Process Acquisition Data", in *Proceedings of IEEE Instrumentation and Measurement Technology Conference 2000*, Baltimore, MD, USA, pp. 661-666, May 1-4, 2000.
- [15] G. Fortino, L. Nigro, "Prototyping Distributed Multimedia Systems using Communicating Real-Time State Machines", in *Proceedings of IEEE Euromicro Conference on Real Time Systems*, Stockholm, Sweden, pp. 273-279, Jun. 16-18, 2000.
- [16] G. Fortino, L. Nigro, "A Cooperative Playback System for on-demand Multimedia Sessions over Internet", in *Proceedings of IEEE International Conference on Multimedia and Expo*, New York, USA, pp. 1-4, 29 Jul. – 2 Aug., 2000.
- [17] G. Fortino, A. Furfaro, L. Nigro, F. Pupo, "Hierarchical Communicating Real-Time State Machines", in *Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'00)*, Las Vegas, Nevada, USA, pp. 3027-3033, Jun. 28–Jul. 1, 2000.
- [18] G. Fortino, L. Nigro, F. Pupo, D. Spezzano, "Super Actors for Real-Time", in *Proceedings of the 6<sup>th</sup> IEEE Workshop on Object-oriented Real-time Dependable Systems (WORDS'01)*, Rome, Italy, pp. 154-161, Jan. 8-10, 2001.
- [19] G. Fortino, L. Nigro, "Design and Evaluation of a teleconference tool based on Actors", in *Proceedings of SCS EuroMedia'2001*, Valencia, Spain, pp. 106-113, Apr. 18-20, 2001.
- [20] G. Fortino, L. Nigro, F. Pupo, W. Russo, "Agent-based distributed execution of Coloured Petri Nets", in *Proceedings of SCS European Simulation Multiconference (ESM)*, Prague, Czech Republic, pp. 547-553, Jun. 6-9, 2001.
- [21] G. Fortino, L. Nigro, F. Pupo, "An Mbone-based on-demand system for cooperative off-line learning", in *Proceedings of IEEE Euromicro Conference '01, Workshop on Multimedia and Telecommunications*, Warsaw, Poland, pp. 336-344, Sept. 4-6, 2001.
- [22] G. Fortino, "Engineering Multimedia Systems using multimedia internetworking and Actors", in *Proceedings of Int'l Conference SSGRR'02 - Advances in Infrastructure for e-Business, e-Education, e-Science, and e-Medicine on the Internet*, L'Aquila, Italy, pp. 1-10, Jan. 21-27, 2002.
- [23] G. Fortino, A. Furfaro, J.C. Guerri, A. Pajares, C. Palau, W. Russo, "A Java-based adaptive media streaming on-demand platform", in *Proceedings of SCS Euromedia'2002*, Modena, Italy, pp. 155-160, Apr. 15-17, 2002.
- [24] G. Fortino, F. Frattolillo, W. Russo, E. Zimeo, "Mobile Active Objects for highly dynamic distributed computing", in *Proceedings of IEEE International Parallel and Distributed Processing Symposium (IPDPS), Workshop on Java for Parallel and Distributed Computing (JPDC'02)*, Fort Lauderdale (Florida), USA, pp. 1-8, Apr. 15-19, 2002.

- [25] G. Fortino, A. Mantuano, W. Russo, E. Zimeo, "A Customizable Active Middleware Architecture for Dynamic Deployment and Management of Internet-based Multimedia Services", in *Proceedings of Int'l conference on Software Engineering Research and Practice (SERP'02)*, Las Vegas (Nevada), USA, pp. 213-219, Jun. 2002.
- [26] G. Fortino, G. Confessore, A. Mantuano, "Design and implementation of a dynamic VRML browsable, media on-demand system distributed over Internet" in *Proceedings of IEEE International Conference on Multimedia and Expo (ICME'02)*, Lausanne, Switzerland, pp. 1-4, Aug. 26-29, 2002.
- [27] G. Fortino, J.C. Guerri, C. Mastroianni, C. Palau, W. Russo, "Development and Validation of a multicast client/server model for cooperative control sessions", in *Proceedings of IASTED Int'l conference Communications and Computer Networks (CCN'02)*, Cambridge (MA), USA, pp. 514-519, Nov. 4-6, 2002.
- [28] G. Fortino, C. Mastroianni, W. Russo, "Performance analysis of an application-level cooperative control protocol", in *Proceedings of IEEE Int'l Symposium on Network Computing and Applications (NCA'03)*, Cambridge (MA), USA, pp. 305-312, Apr. 16-18, 2003.
- [29] G. Fortino, W. Russo, E. Zimeo, "Enhancing Cooperative Playback Systems with Efficient Encrypted Multimedia Streaming", in *Proceedings of IEEE Int'l Conference on Multimedia and Expo (ICME'03)*, Baltimore (MD), USA, vol. II, pp. 657-660, Jul. 6-9, 2003.
- [30] G. Fortino, W. Russo, E. Zimeo, "A Framework for Design and Implementation of Mobile Active Objects", in *Proceedings of IASTED Int'l Conference on Software Engineering and Applications (SEA'03)*, Marina del Rey (CA), USA, pp. 25-30, Nov. 3-5, 2003.
- [31] G. Fortino, W. Russo, E. Zimeo, "Reliable Multicast Protocols for Java-based GRID Middleware Platforms", in *Proceedings of IASTED Int'l Conference on Parallel and Distributed Computing Systems (PDCS'03)*, Marina del Rey (CA), USA, pp. 635-640, Nov. 3-5, 2003.
- [32] G. Fortino, W. Russo, "A Statecharts-based Methodology for the Simulation of Mobile Agents", in *Proceedings of EUROSIS European Simulation and Modelling Conference (ESMc'03)*, Naples, Italy, pp. 77-82, Oct. 27-29, 2003.
- [33] G. Fortino, C. Mastroianni, W. Russo, "A Multi-Policy, Cooperative Playback Control Protocol", in *Proceedings of the 3rd IEEE Int'l Symposium on Network Computing and Applications (NCA'04)*, Cambridge (MA), USA, pp. 297-302, 30 Aug.-1 Sept. 2004.
- [34] G. Fortino, C.E. Palau, W. Russo, M. Esteve, "The COMODIN System: A CDN-based Platform for Cooperative Media On-Demand on the InterNet", in *Proceedings of the 10th International Conference on Distributed Multimedia Systems (DMS'04)*, San Francisco Bay (CA), USA, pp. 157-162, Sept. 8-10, 2004.
- [35] G. Fortino, W. Russo, "High-level Interoperability between Java-based Mobile Agent Systems", in *Proceedings of the 17th ISCA International Conference on Parallel and Distributed Computing Systems (PDCS'04)*, San Francisco (CA), USA, pp. 367-374, Sept. 15-17, 2004.
- [36] G. Fortino, A. Garro, W. Russo, "Using Method Engineering for the Construction of Agent-Oriented Methodologies", in *Proceedings of the Workshop on Objects and Agents (WOA'05)*, Torino, Italy, pp. 51-54, 29 Nov.-1 Dec., 2004.
- [37] G. Fortino, M. Marzilli, W. Russo, "Modelling and Analysis of Agent Mobility Patterns using Discrete-time Markov Chains", in *Proceedings of the Int'l Conference on Parallel and Distributed Computing and Networks (PDCN'05 - as part of the 22nd IASTED Int'l Multi-Conference on Applied Informatics)*, Innsbruck, Austria, pp. 497-504, Feb. 17-19, 2005.
- [38] G. Fortino, W. Russo, "Multi-coordination of Mobile Agents: a Model and a Component-based Architecture", in *Proceedings of the 20th Annual ACM Symposium on Applied Computing (SAC'05)*, Special Track on Coordination Models, Languages and Applications, Santa Fe, New Mexico, USA, vol. 1, pp. 443-450, Mar. 13-17, 2005.
- [39] G. Fortino, A. Garro, W. Russo, "A Discrete-Event Simulation Framework for the Validation of Agent-based and Multi-Agent Systems", in *Proceedings of the Workshop on Objects and Agents (WOA'05)*, Camerino (Italy), Nov 14-16, 2005.



- [40] G. Fortino, A. Garro, W. Russo, "From Modelling to Enactment of Distributed Workflows: An Agent-based Approach", in *Proceedings of the 21<sup>st</sup> Annual ACM Symposium on Applied Computing (SAC'06)*, Special Track on Agents, Mobility, Interaction and Systems (AIMS), Dijon, France, Apr 23-27, 2006.
- [41] G. Fortino, A. Garro, W. Russo, R. Caico, M. Cossentino, F. Termine, "Simulation-driven Development of Multi-Agent Systems", in *Proceedings of the Int'l Workshop on Multi-Agent Systems and Simulation (MAS&S'06 – as part of the 4<sup>th</sup> EUROSIS Industrial Simulation Conference)*, Palermo, Italy, June 5, pp. 17-24, 2006.
- [42] G. Fortino, W. Russo, "Integrating Agent, GRID and P2P Technologies into Content Distribution etworks", in *Proceedings of the Int'l Workshop on the Use of P2P, GRID and Agent for the Development of ontent Distribution Networks (UPGRADE-CDN – as part of the 15<sup>th</sup> IEEE HPDC)*, Paris, France, June 20, 2006.
- [43] G. Fortino, A. Garro, W. Russo, "Distributed Workflow Enactment: An Agent-based Framework", in *Proceedings of the Workshop on Objects and Agents (WOA'06)*, Catania (Italy), Sept. 25-27, 2006.
- [44] G. Di Fatta and G. Fortino, "A Customizable Multi-Agent System for Distributed Data Mining", in *Proceedings of the 4<sup>th</sup> European Workshop on Multi-Agent Systems (EUMAS'06)*, Lisbon, Portugal, December 14-15, 2006.
- [45] G. Di Fatta and G. Fortino, "A Customizable Multi-Agent System for Distributed Data Mining", in *Proceedings of the 22<sup>nd</sup> Annual ACM Symposium on Applied Computing (SAC'07)*, Special Track on Agents, Mobility, Interaction and Systems (AIMS), Seoul, Korea, March 11-15, 2007.
- [46] G. Fortino, A. Garro, W. Russo, "Enhancing JADE Interoperability through the Java-based Interoperable Mobile Agent Framework", in *Proceedings of the 5<sup>th</sup> IEEE International Conference on Industrial Informatics, Special session on Agent Theories and Practice for Industry (ATPI)*, Vienna, Austria, July 23-26, 2007.
- [47] G. Fortino, A. Garro, S. Mascillaro, W. Russo, "Specifying WSN Applications through Agents Based on Events and States" in *Proceedings of the IARIA/IEEE Int'l Conference SensorComm'07*, Valencia, Spain, October 14-19.
- [48] G. Fortino, A. Garro, W. Russo, "Programming Heterogeneous Agent-based Applications through the JIMAF: a case study", In *Proceedings of Languages, methodologies and Development tools for multi-agent systems (LADS)*, Durham, UK, 4-6 September 2007.
- [49] G. Fortino, A. Garro, S. Mascillaro, W. Russo, "ELDATool: A Statecharts-based Tool for Prototyping Multi-Agent Systems," In *Proceedings of the Workshop on Objects and Agents (WOA'07)*, Genova (Italy), Sept. 24-25, 2007.
- [50] G. Fortino, A. Garro, S. Mascillaro, W. Russo, "Agent-based Modeling and Simulation of Cooperative Content Distribution Networks," in *Proceedings of the 2<sup>nd</sup> Int'l Workshop on Multi-Agent Systems and Simulation (MAS&S'07 – as part of the EUROSIS European Simulation and Modeling Conference)*, St. Julians, Malta, 22-24 October, 2007.
- [51] R. Gravina, A. Guerrieri, S. Iyengar, F. Tempia Bonda, R. Giannantonio, F.L. Bellifemine, T. Pering, M. Sgroi, G. Fortino and A. Sangiovanni-Vincentelli, "Demo abstract: SPINE (Signal Processing in Node Environment) framework for healthcare monitoring applications in Body Sensor Networks", In the Proc. of the 5<sup>th</sup> European conference on Wireless Sensor Networks 2008 (EWSN'08), Bologna, Italy, Jan 30 – Feb 1, 2008.
- [52] S. Iyengar, F. Tempia Bonda, R. Gravina, A. Guerrieri, G. Fortino, A. Sangiovanni-Vincentelli, "A Framework for Creating Healthcare Monitoring Applications Using Wireless Body Sensor Networks", In the Proc. of the 3<sup>rd</sup> International Conference on Body Area Networks (BodyNets'08), Tempe (AZ), USA, Mar. 13-15, 2008.
- [53] S. Iyengar, R. Gravina, A. Guerrieri, F. Tempia Bonda, R. Giannantonio, F.L. Bellifemine, M. Sgroi, G. Fortino and A. Sangiovanni-Vincentelli, "SPINE: Framework for Body Sensor Networks," The Fifth International TinyOS Technology Exchange, University of California Berkeley, CA, USA, 22 Feb 2008.
- [54] G. Fortino, A. Garro, S. Mascillaro, W. Russo, "Modeling Multi-Agent Systems through Event-driven Lightweight DSC-based Agents," In the Proc. of the 6<sup>th</sup> Int'l Workshop "From Agent Theory to Agent

Implementation" (AT2AI) held at the 7th Autonomous Agents and Multiagent Systems (AAMAS) Conference", Estoril, Portugal, 13 May, 2008.

- [55] G. Fortino, V. Leo, W. Russo, "Synchronization of CDN-based Collaborative Playbacks," In the Proc. of the 3rd Int'l Workshop on the Use of P2P, GRID and Agents for the Development of Content Networks (UPGRADE-CN'08) held at the ACM/IEEE International Symposium on High Performance Distributed Computing (HPDC), June 23, 2008, Boston, MA, USA.
- [56] F. Aiello, G. Fortino, A. Guerrieri, "Using mobile agents as an effective technology for wireless sensor networks," In *Proc. of the Second IEEE/IARIA International Conference on Sensor Technologies and Applications (SENSORCOMM 2008)*, Aug 25-31, Cap Esterel, France, 2008.
- [57] R. Gravina, A. Guerrieri, G. Fortino, F. Bellifemine, R. Giannantonio, M. Sgroi, "Development of Body Sensor Network Applications using SPINE," In Proc. of *IEEE International Conference on Systems, Man, and Cybernetics (SMC 2008)*, Singapore, Oct. 12-15, 2008.
- [58] G. Fortino, A. Garro, S. Mascillaro, W. Russo, "Using multi-coordination for the design of mobile agent interactions," In *Proceedings of the Workshop on Objects and Agents (WOA'08)*, Palermo (Italy), Nov. 17-18, 2008.
- [59] G. Fortino, A. Garro, S. Mascillaro, W. Russo, "A Multi-Coordination based Process for the Design of Mobile Agent Interactions," In *Proceedings of IEEE Symposium on Intelligent Agents (IEEE Symposium Series on Computational Intelligence)*, Nashville (TN), USA, March 30-April 2, 2009.
- [60] Francesco Aiello, Giancarlo Fortino, Raffaele Gravina, Antonio Guerrieri, "MAPS: a Mobile Agent Platform for Java Sun SPOTS" In *Proceedings of the 3rd International Workshop on Agent Technology for Sensor Networks (ATSN-09)*, jointly held with the 8th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-09), 12th May, Budapest, Hungary, 2009.
- [61] G. Fortino, A. Garro, S. Mascillaro, W. Russo, M. Vaccaro, "Distributed architectures for surrogate clustering in CDNs: a simulation-based analysis" In the *Proc. of the 4th Int'l Workshop on the Use of P2P, GRID and Agents for the Development of Content Networks (UPGRADE-CN'09)* held at the ACM/IEEE International Symposium on High Performance Distributed Computing (HPDC), June 9, 2009, Munich, Germany.
- [62] Giancarlo Fortino, Carlo Mastroianni, Mukaddim Pathan, Athena Vakali: Next generation content networks: trends and challenges. In the *Proc. of the 4th Int'l Workshop on the Use of P2P, GRID and Agents for the Development of Content Networks (UPGRADE-CN'09)* held at the ACM/IEEE International Symposium on High Performance Distributed Computing (HPDC), June 9, 2009, Munich, Germany, pp.49
- [63] G. Fortino, A. Guerrieri, R. Giannantonio, F. Bellifemine, "Platform-independent development of collaborative WBSN applications: SPINE2" In Proc. of *IEEE International Conference on Systems, Man, and Cybernetics (SMC 2009)*, San Antonio (Texas, USA), Oct. 11-14, 2009.
- [64] G. Fortino, A. Guerrieri, R. Giannantonio, F. Bellifemine, "SPINE2: developing BSN applications on heterogeneous sensor nodes" In Proc. of IEEE Symposium on Industrial Embedded Systems (SIES'09), *special session on wireless health*, Lausanne (Switzerland), 8-10 July 2009.
- [65] L. Buondonno, G. Fortino, S. Galzarano, R. Giannantonio, A. Giordano, R. Gravina, A. Guerrieri, "Programming signal processing applications on heterogeneous wireless sensor platforms", In Proc. of 5th IEEE International Workshop on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS'2009), Rende (Cosenza), Italy, Sept. 21-23, 2009.
- [66] F. Bellifemine, G. Fortino, "ASPINE: an agent-oriented design of SPINE", In Proceedings of the Workshop on Objects and Agents (WOA'09), Parma (Italy), Jul. 9-10, 2009.
- [67] Augimeri A., Rege M., Handzisky V. , Fortino G. , Wolisz A., "Cooperative Handshake Detection with Body Sensor Networks". Atti del convegno "EWSN 2010 - European Conference on Wireless Sensor Networks", Coimbra, Portugal, 2010.
- [68] F. Aiello, F. Bellifemine, G. Fortino, R. Gravina, A. Guerrieri, "An agent-based signal processing in-node environment for real-time human activity monitoring based on wireless body sensor networks," In *Proceedings of the 1st International Workshop on Infrastructures and Tools for Multiagent Systems (ITMAS-*

2010), jointly held with the 9th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2010), 10-14 May, Toronto, Canada, 2010.

- [69] R. Gravina, A. Andreoli, A. Salmeri, L. Buondonno, N. Raveendranathank, V. Loseuk, R. Giannantonio, E. Seto and G. Fortino<sup>‡</sup>. “Enabling Multiple BSN Applications Using the SPINE Framework”, *In Proc. of International Conference on Body Sensor Networks (BSN 2010)* June 7 - 9, Biopolis, Singapore, 2010.
- [70] G. Fortino, V. Giampà, “PPG-based Methods for Non Invasive and Continuous Blood Pressure Measurement: an Overview and Development Issues in Body Sensor Networks”, *IEEE International Workshop on Medical Measurements and Applications (MeMeA)*, Ottawa (Canada), Apr 30-May 1, 2010.
- [71] A. Andreoli, R. Gravina, R. Giannantonio, P. Pierleoni, G. Fortino, “Time-Domain Heart Rate Variability Analysis with the SPINE-HRV Toolkit”, *1<sup>st</sup> Int’l Workshop on SigProcessing (Light-weight Signal Processing for Computationally Intensive BSN Applications) jointly held with the 3rd International Conference on PErvasive Technologies Related to Assistive Environments (PETRA 2010)*, Jun 23-25, Samos, Greece, 2010.
- [72] A. Augimeri, G. Fortino, M.R. Reje, V. Handziski, A. Wolisz “A Cooperative Approach for Handshake Detection based on Body Sensor Networks,” *In Proc. of. IEEE International Conference on Systems, Man, and Cybernetics (SMC 2010)*, Istanbul, Turkey, Oct. 10-13, 2010.
- [73] G. Fortino, W. Russo, “ELDAMeth: A Methodology For Simulation-based Prototyping of Distributed Agent Systems”, *In Proc of the 4<sup>th</sup> Int’l Workshop on Multi-Agent Systems and Simulation (MAS&S 2010), jointly held with MALLOW (Multi-Agent Logics, Languages, and Organisations Federated Workshops), Lyon (France), 30 August - 03 September, 2010.*
- [74] A. Guerrieri, A. Ruzzelli, G. Fortino and G. O’Hare, "An OSGi Dynamic Framework To Support Sensor Network Applications In Buildings". *Poster at ACM HotEMNETS 2010 Workshop*, Killarney (Ireland), June 28-29, 2010.
- [75] G. Fortino and S. Galzarano, “Programming Wireless Body Sensor Networks through Agents”, *11<sup>th</sup> Workshop on Objects and Agents (WOA’10)*, Rimini, Italia, Sept 5-7, 2010. <http://CEUR-WS.org/Vol-621/>.
- [76] G. Fortino and F. Rango, “A Technique based on Recursive Hierarchical State Machines for application-level capture of agent execution state”, *Workshop on Agent Based Computing: from Model to Implementation VII (ABC:MI’10)*, Wisla, Poland, October 18-20, 2010.
- [77] G. Fortino and S. Galzarano, “Java-based Mobile Agent Platforms for Wireless Sensor Networks”, *Workshop on Agent Based Computing: from Model to Implementation VII (ABC:MI’10)*, Wisla, Poland, October 18-20, 2010.
- [78] D. L. Carnì, G. Fortino, R. Gravina, D. Grimaldi, A. Guerrieri, F. Lamonaca, “Continuous, Real-time Monitoring of Assisted Livings through Wireless Body Sensor Networks”, the 6th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS’2011), September 15-17, Prague, Czech Republic, 2011. To appear.
- [79] G. Fortino, A. Garro, W. Russo, M. Vaccaro, “Performance Evaluation of Content Distribution Network Architectures through Agent-Based Modeling and Simulation”, *Proc. of the 12th Workshop on Objects and Agents (WOA 2011)*, Rende (CS), Italia, Jul 4-6, 2011.
- [80] G. Fortino, S. Galzarano, R. Gravina, A. Guerrieri, “Agent-based Development of Wireless Sensor Network Applications”, *Proc. of the 12th Workshop on Objects and Agents (WOA 2011)*, Rende (CS), Italia, Jul 4-6, 2011.
- [81] A. Augimeri, G. Fortino, S. Galzarano, R. Gravina, “Collaborative Body Sensor Networks”, *Proc. of Int’l Conference IEEE Systems, Man and Cybernetics (SMC2011)*, Oct. 9-12, Anchorage, Alaska, USA, 2011.
- [82] G. Fortino and A. Guerrieri, “Decentralized and Embedded Management of Smart Buildings”, *Workshop on Applications of Software Agents (WASA 2011)*, 3-5 Jul, Novi Sab (Serbia), 2011. <http://ceur-ws.org/Vol-752/>
- [83] G. Fortino and A. Guerrieri, “Monitoring Building Indoors through Clustered Embedded Agents”. *Workshop on Agent Based Computing: from Model to Implementation (ABC 2011) jointly held with Federated*

- Computer Science and Information Systems Conference*, IEEE Xplore, Szczecin, Poland, 18-21 September, 2011.
- [84] M. Niazi, Q. Siddique, A. Hussain, G. Fortino. "SimConnector: An Approach to Testing Disaster-Alerting Systems Using Agent Based Simulation Models". *Workshop on Multi-Agent Systems and Simulation (MAS&S 2011) jointly held with Federated Computer Science and Information Systems Conference*, IEEE Xplore, Szczecin, Poland, 18-21 September, 2011.
  - [85] G. Fortino and A. Guerrieri, "Pervasive Monitoring of Building Indoors through Heterogeneous Wireless Sensor Networks," *Networking and Electronic Commerce Research Conference (NAEC 2011)*, October 13-16, Riva Del Garda, Italy, 2011.
  - [86] D. Buranapanichkit, A. Vittorioso, G. Fortino, and Y. Andreopoulos, "Comparison Between Centralized And Distributed Coordination For TDMA Operation In Wireless Sensor Networks," *London Communications Symposium 2011, London (UK), 8 Sept. 2011*.
  - [87] G. Di Fatta, F. Blasa, S. Cafiero, G. Fortino, "A Symmetric Push-Sum Protocol for Decentralized Aggregation", *The Third International Conference on Advances in P2P Systems (AP2PS 2011)*, Lisbon, Portugal, Nov. 20-25, 2011.
  - [88] P. Panuccio, H. Ghasemzadeh, G. Fortino, R. Jafari, "Low-Power Action Recognition with Optimal Sensor Selection: An AdaBoost Driven Distributed Template Matching Approach," *Workshop mHealthSys at ACM Sensys 2011, accepted with shepherd. (35% acceptance rate)*.
  - [89] G. Di Fatta, F. Blasa, S. Cafiero, G. Fortino, "Epidemic K-Means Clustering" *Accepted in International Workshop on Knowledge Discovery Using Cloud and Distributed Computing Platforms In Cooperation with IEEE ICDM 2011, 10 December 2011, Vancouver, Canada*.
  - [90] G. Fortino, S. Galzarano, A. Liotta, "An Autonomic Plane for Wireless Body Sensor Networks", *Accepted in International Workshop on Computing, Networking and Communications, (session on Wireless Body Area Networks for mHealth) in conjunction with The IEEE International Conference on Computing, Networking and Communications (ICNC 2012), Maui, Hawaii, USA, January 30 - February 2, 2012*.
  - [91] A. Vittorioso, D. Buranapanichkit, G. Fortino and Y. Andreopoulos, "Poster Abstract: Coordination For TDMA Operation In WSNs: Comparison Between Centralized And Distributed Mechanisms", *9th European Conference on Wireless Sensor Networks (EWSN 2012)*, University of Trento, Italy, February 15 - 17, 2012.
  - [92] G. Fortino and C.E. Palau, "An Agent-based Mobile Social Network," *Proc. of ICMCS'12, the 3rd IEEE International Conference on Multimedia Computing and Systems*, Tangier, 10-12 May, 2012.
  - [93] Wenfeng Li, Junrong Bao, Xiuwen Fu, Giancarlo Fortino, Stefano Galzarano, "Human Postures Recognition Based on D-S Evidence Theory and Multi-sensor Data Fusion", *Proc. of CCGrid 2012 DPMSS Workshop at CCGrid 2012 — The 12th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing*, Ottawa (Canada), May 13-16, 2012.
  - [94] G. Fortino, A. Guerrieri, W. Russo, "Agent-oriented Smart Objects Development," *Proc. of IoT and Logistics Workshop to be held at the 2012 16th IEEE International Conference on Computer Supported Cooperative Work in Design (CSCWD 2012)*, Wuhan (China), May 22-25, 2012.
  - [95] G. Fortino, R. Gravina, and A. Guerrieri, "Agent-oriented Integration of Body Sensor Networks and Building Sensor Networks", *Proceedings of IEEE FedCSis, ABC 2012*, Wroclaw, Poland, 9-12 Sept. 2012.
  - [96] S. Galzarano, G. Fortino, A. Liotta, "Embedded self-healing layer for detecting and recovering sensor faults in body sensor networks, *Proceedings of IEEE Systems, Man and Cybernetics 2012*, Seoul, Oct. 14-17, 2012.
  - [97] G. Fortino, M. Pathan, G. Di Fatta, "BodyCloud: Integration of Cloud Computing and Body Sensor Networks", *The 2012 International Workshop on Data Analytics and Mining in the Cloud @ IEEE 4th International Conference on Cloud Computing Technology and Science (CloudCom 2012)*, Taipei, Taiwan, Dec 3-6, 2012.

- [98] R. Covello, G. Fortino, R. Gravina, A. Aguilar, J.G. Breslin, "Novel method and real-time system for detecting the Cardiac Defense Response based on the ECG," in Proc. of IEEE Symp. MEMEA 2013, Ottawa, Canada.
- [99] G. Fortino, R. Greco, A. Guerrieri, "Modeling and Evaluation of the Building Management Framework based on the Castalia WSN Simulator," in Proc. IEEE Conference CSCWD 2013, Whistler, Canada.
- [100] X. Fu, W. Li, G. Fortino, "A Utility-Oriented Routing Algorithm for Community Based Opportunistic Networks," in Proc. IEEE Conference CSCWD 2013, Whistler, Canada.
- [101] Xiuwen Fu, Wenfeng Li, G. Fortino, "Empowering the invulnerability of wireless sensor networks through super wires and super nodes", In Proc. of IEEE CCGrid 2013.
- [102] Raffaele Conforti, Marcello La Rosa, Arthur H.M. Ter Hofstede, Giancarlo Fortino, Massimiliano de Leoni, Wil M.P. van der Aalst and Michael Adams, "A Software Framework for Risk-Aware Business Process Management," In Proc. of CAISE 2013 Forum, 2013.
- [103] A. Cuzzocrea, G. Fortino, O. Rana, "Managing Data and Processes in Cloud-Enabled Large-Scale Sensor Networks: State-Of-The-Art and Future Research Directions," In Proc. of IEEE CCGrid 2013.
- [104] R. Conforti, M. La Rosa, and G. Fortino, "Process Monitoring Using Sensors in YAWL", In Proc. of the First YAWL Symposium, CEUR, Vol.982, pp. 49-55, Sankt Augustin, Germany, June 7, 2013.
- [105] S. Galzarano, C. Savaglio, A. Liotta, G. Fortino "Gossiping-based AODV for Wireless Sensor Networks", in Proc. of IEEE SMC 2013, Manchester (UK), 13-16 Oct., 2013.
- [106] Antonio Guerrieri, Luca Geretti, Giancarlo Fortino and Antonio Abramo, "A Service-oriented Gateway for Remote Monitoring of Building Sensor Networks", in Proc. of IEEE CAMAD 2013, berlin (Germany), 25-27 Sept., 2013.
- [107] G. Fortino, R. Gravina, A. Guerrieri, G. Di Fatta, "Engineering Large-Scale Body Area Networks Applications", in Proc. of 8th International Conference on Body Area Networks (BodyNets), September 30–October 2, 2013 Boston, Massachusetts, United States, ACM press.
- [108] G. Fortino, W. Russo, "Towards a Cloud-assisted and Agent-oriented Architecture for the Internet of Things", in Proc. of Workshop on Objects and Agents (WOA 2013), Turin, 1-3 Dec. 2013.
- [109] Giancarlo Fortino, Antonio Guerrieri, Wilma Russo, Claudio Savaglio, "Integration of Agent-based and Cloud Computing for the Smart Objects-oriented IoT", in Proc. IEEE Conference CSCWD 2014.
- [110] G. Smart, N. Deligiannis, Y. Andreopoulos, R. Surace, V. Loscri, G. Fortino, "Poster Abstract: Decentralized Time-Synchronized Channel Swapping For Wireless Sensor Networks," In European Wireless Sensor Networks (EWSN), poster paper, 2014.
- [111] G. Fortino, A. Rovella, W. Russo, C. Savaglio, "On the Classification of Cyberphysical Smart Objects in the Internet of Things", in Proc. of 5th International Workshop on Networks of Cooperating Objects for Smart Cities 2014 (UBICITEC 2014), Berlin, Germany, 14 Apr. 2014, CEUR Vol 1156, 2014.
- [112] O. Zedadra, H. Seridi, N. Jouandeu, G. Fortino, A. Guerrieri, "A Decentralized Behavioral Model for Collective Foraging Problem", In Proc. of WOA 2014, Sept. 2014.
- [113] G. Fortino, A. Guerrieri, W. Russo, "An Evaluation Framework for Buildings-oriented Wireless Sensor Networks", in Proc. of 14th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing, Chicago, 26-29 May, 2014.
- [114] G. Fortino and R. Gravina, "Rehab-aaS: A Cloud-based Motor Rehabilitation Digital Assistant", 2nd ICT for improving Patient Rehabilitation Research Techniques Workshop - REHAB 2014 (PervasiveHealth 2014), Oldenburg, Germany, 20 May, 2014.
- [115] O. Zedadra, H. Seridi, N. Joundeu, G. Fortino, "S-MASA: A Stigmergy Based Algorithm for Multi-Target Search," In Proc. of FedCSIS 2014
- [116] B. Molina, C. Palau, G. Fortino, A. Guerrieri, C. Savaglio, "Empowering smart cities through interoperable Sensor Network Enablers," In Proc. of IEEE SMC 2014

- [117] G. Aloï, G. Caliciuri, G. Fortino, P. Pace "A smartphone-centric approach for integrating heterogeneous sensor networks," In Proc. of EAI/ACM Bodynets 2014.
- [118] G. Fortino and R. Gravina, "Real-time automatic detection of accelerative cardiac defense response," In Proc. of EAI/ACM Bodynets 2014
- [119] Mohammad Mehedi Hassan, M. Abdullah Al-Wadud and Giancarlo Fortino, "A Socially Optimal Resource and Revenue Sharing Mechanism in Cloud Federations", IEEE CSCWD 2015, Calabria 6-8 May, 2015.
- [120] Pasquale Pace, Gianluca Aloï and Giancarlo Fortino, "An Application-Level Framework for UAV/Rover Communication and Coordination", IEEE CSCWD 2015, Calabria 6-8 May, 2015.
- [121] Xiuwen Fu, Wenfeng Li, Huahong Ming and Giancarlo Fortino, "A Framework for WSN-based Opportunistic Networks", IEEE CSCWD 2015, Calabria 6-8 May, 2015.
- [122] Zedadra Ouarda, Jouandeau Nicolas, Hamid Seridi and Giancarlo Fortino, "Design and Analysis of Cooperative and Non Cooperative Stigmergy-based Models for Foraging", IEEE CSCWD 2015, Calabria 6-8 May, 2015.
- [123] G. Fortino, R. Gravina, W. Russo, "Activity-aaS: Cloud-assisted, BSN-based system for physical activity monitoring", IEEE CSCWD 2015, Calabria 6-8 May, 2015.
- [124] Maria Torres Vega, Decebal Constantin Mocanu, Rosario Barresi, Giancarlo Fortino, Antonio Liotta, " Cognitive Streaming on Android Devices", In Proc. of 1st Workshop on Cognitive Network & Service Management (CogMan 2015), IEEE, 2015.
- [125] Zedadra Ouarda, Jouandeau Nicolas, Hamid Seridi, Giancarlo Fortino, "A Distributed Foraging Algorithm Based on Artificial Potential Field," In Proc. of International Symposium on Programming and Systems (ISPS), IEEE, 2015.
- [126] G. Fortino, A. Guerrieri, W. Russo, C. Savaglio, "Towards a Development Methodology for Smart Object-Oriented IoT Systems: a Metamodel Approach," In Proc. of IEEE SMC 2015, Hong Kong, Oct. 2015, to appear.
- [127] Zedadra Ouarda, Jouandeau Nicolas, Hamid Seridi and Giancarlo Fortino, "Energy Expenditure in Multi-Agent Foraging: An Empirical Analysis," IEEE FedCSIS, 9th MAS&S Workshop, Lodz, Poland, 13-16 Sept, 2015, to appear.
- [128] P. Pace, G. Aloï, G. Caliciuri, G. Fortino, "Management and Coordination Framework for Aerial-Terrestrial Smart Drone Networks," In Proc. of SmartObjects 2015, ACM Mobicom, Paris, Sept. 2015.
- [129] Artem Polyvyanyy, Luigi Corno, Raffaele Conforti, Simon Raboczi, Marcello La Rosa, and Giancarlo Fortino, "Process Querying in Apromore", BPM 2015 Demos, Innsbruck, Austria, Aug. 31-Sept. 3 2015.
- [130] G. Fortino, R. Gravina, "Fall-MobileGuard: a Smart Real-Time Fall Detection System", in Proc. of EAI/ACM Bodynets 2015, Sydney (Australia), Sept./Oct. 2015.
- [131] G. Fortino, R. Gravina, W. Li, C. Ma, "Using Cloud-assisted Body Area Networks to Track People Physical Activity in Mobility", in Proc. of EAI/ACM Bodynets 2015, Sydney (Australia), Sept./Oct. 2015. *\*\*\*Best Paper Award\*\*\**
- [132] G. Aloï, G. Caliciuri, G. Fortino, R. Gravina, P. Pace, W. Russo, "A Smartphone-based Gateway to Support Mobile IoT interoperability", The 2015 International Forum of IoT and Applications (IF[IoT&A]), Wuhan (China), 26-27 November, 2015. *\*\*\*Extended Abstract\*\*\**
- [133] Franco Cicirelli, Giancarlo Fortino, Antonio Guerrieri, Giandomenico Spezzano and Andrea Vinci, "A Meta-Model Framework for the Design and Analysis of Smart Cyber-Physical Environments", In Proc. of 2016 20th IEEE International Conference on Computer Supported Cooperative Work in Design (CSCWD 2016).
- [134] Congcong Ma, Wenfeng Li, Raffaele Gravina and Giancarlo Fortino, "Activity Recognition and Monitoring for Smart Wheelchair Users", In Proc. of 2016 20th IEEE International Conference on Computer Supported Cooperative Work in Design (CSCWD 2016).

- [135] Gianluca Aloï, Giuseppe Caliciuri, Giancarlo Fortino, Raffaele Gravina, Pasquale Pace, Wilma Russo and Claudio Savaglio, "A Mobile Multi-Technology Gateway to Enable IoT Interoperability", In Proc. of 1st Int'l Workshop I4T @ IEEE IoTDI 2016.
- [136] G. Fortino, W. Russo, C. Savaglio, "Agent-oriented Modeling and Simulation of IoT Networks", Multi-Agent Systems and Simulation @ FEDCSIS 2016, IEEE XPLore.
- [137] G. Fortino, W. Russo, C. Savaglio, "Simulation of Agent-oriented Internet of Things Systems", WOA 2016
- [138] Z. Wang, J. Wang, H. Zhao, N. Yang, G. Fortino, "CanoeSense: Monitoring Canoe Sprint Motion using Wearable Body Sensor Networks", IEEE SMC 2016.
- [139] F. Cicirelli, G. Fortino, A. Guerrieri, G. Spezzano, A. Vinci, "Edge-enabled development of Smart Cyber-Physical Environments", IEEE SMC 2016.
- [140] C. Savaglio, G. Fortino, M. Zhou, "Towards Interoperable, Cognitive and Autonomic IoT Systems: An Agent-based Approach", *Proc. of 2016 IEEE 3rd World Forum on Internet of Things WF-IoT* Reston, USA, Dec 2016.
- [141] Ma, Raf et al. "Activity Level Assessment of Wheelchair Users Using Smart Cushion", *Proc. of the Bodynets* 2016.
- [142] Pace, Raf et al. "Towards Interoperability of IoT-based Health Care Platforms: the INTER-Health Use Case", *Proc. of the Bodynets* 2016.
- [143] Zhelong, Raf et al. "Networked Human Motion Capture System Based on Quaternion Navigation", *Proc. of the Bodynets* 2016.
- [144] Ning Yang, Zhelong Wang, Raffaele Gravina, Giancarlo Fortino, "A Survey of Open Body Sensor Networks: Applications and Challenges", *Proc. of the 14th Annual IEEE Consumer Communications & Networking Conference*, 8-11 January 2017, Las Vegas, USA.
- [145] Xiuwen Fu, Wenfeng Li and Giancarlo Fortino, "Topology Upgrading Method for Energy Balance in Scale-Free Wireless Sensor Networks," *Proc. Of 14th IEEE Conference on Networking, Sensing and Control (ICNSC 2017)*, Calabria (Italy), May 16-18, 2017.
- [146] Ali Hassan and Giancarlo Fortino, "Energy Management during Video Transmission in Wireless Body Sensor Networks," *Proc. Of 14th IEEE Conference on Networking, Sensing and Control (ICNSC 2017)*, Calabria (Italy), May 16-18, 2017.
- [147] Claudio De Farias, Luci Pirmez, Flavia Delicato, Paulo Pires, Antonio Guerrieri, Giancarlo Fortino, Francesco Cauteruccio and Giorgio Terracina, "A Multisensor Data Fusion Algorithm Using the Hidden Correlations in Multi-Application Wireless Sensor Data Streams," *Proc. Of 14th IEEE Conference on Networking, Sensing and Control (ICNSC 2017)*, Calabria (Italy), May 16-18, 2017.
- [148] Lin Yang, Wenfeng Li, Yun Luo, Ying Duan and Giancarlo Fortino, "A Social-D2D Architecture for People-centric Internet of Things," *Proc. Of 14th IEEE Conference on Networking, Sensing and Control (ICNSC 2017)*, Calabria (Italy), May 16-18, 2017.
- [149] W. Ismail, M. M. Hassan, and G. Fortino, "Productive-Associated Periodic High-Utility Itemsets Mining", *Proc. Of 14th IEEE Conference on Networking, Sensing and Control (ICNSC 2017)*, Calabria (Italy), May 16-18, 2017.
- [150] P. Pace, R. Gravina, G. Aloï, G. Fortino, A. Fides-Valero, G. Ibañez-Sanchez, V. Traver, C.E. Palau, D.C. Yacchirema, "IoT platforms interoperability for Active and Assisted Living Healthcare services support," In Proc. of The 1st 2017 GLOBAL IoT SUMMIT - (WS) 3rd International Workshop on Internet of Things for Active and Assisted Living - IoTAAL.
- [151] G. Fortino, W. Russo, C. Savaglio, M. Viroli, M. Zhou, "Modeling Opportunistic IoT Services in Open IoT Ecosystems", in Proc. 18th Workshop "From Objects to Agents. 2017.
- [152] G. Fortino, C. Savaglio and M. Zhou, "Toward Opportunistic Services for the Industrial Internet of Things", in Proc. of IEEE CASE 2017 (Conference on Automation Science and Engineering), Xi'an, China, 20-23 Aug. 2017.

- [153] Congcong Ma, Qimeng Li, Wenfeng Li, Raffaele Gravina, Yu Zhang, Giancarlo Fortino, "Activity Recognition of Wheelchair Users Based on Sequence Feature in Time-series," in Proc. of 2017 IEEE International Conference on Systems, Man, and Cybernetics, Banff, Canada, Oct. 2017.
- [154] C. Savaglio, G. Fortino, W. Russo, M. Viroli, M. Zhou, "Opportunistic Cyberphysical Services: A Novel Paradigm for the Future Internet of Things" accepted in 2018 IEEE 4rd World Forum on Internet of Things WF-IoT 2018, Singapore, Feb. 2018.
- [155] Franco Cicirelli, Giancarlo Fortino, Antonio Guerrieri, Giandomenico Spezzano, and Andrea Vinci: A Scalable Agent-based Smart Environment for Edge-based Urban IoT Systems, In Proc. Of EAI INTER-IoT Conference, Valencia (Spain), 7 Nov. 2017.
- [156] Franco Cicirelli, Giancarlo Fortino, Antonio Guerrieri, Alessandro Mercuri, Giandomenico Spezzano and Andrea Vinci, "A Metamodel Framework for Edge-based Smart Environments," In Proc. of IEEE IC2E, Globe-IoT workshop, 17 Apr. 2018, Orlando (FL), USA.
- [157] Claudio Savaglio, Giancarlo Fortino, Wilma Russo and Raffaele Gravina, "A Methodology for Integrating Internet of Things Platforms," In Proc. of IEEE IC2E, Globe-IoT workshop, 17 Apr. 2018, Orlando (FL), USA.
- [158] Shizhen Zhao, Wenfeng Li, Wenyu Niu, Raffaele Gravina, Giancarlo Fortino, "Recognition of Human Fall Events Based on Single Tri-axial Gyroscope", in Proc. of IEEE ICNSC 2018.
- [159] G. Aloï, G. Caliciuri, G. Fortino, P. Pace, R. Gravina, "Edge Computing-enabled Body Area Networks", In Proc. of The 32-nd IEEE International Conference on Advanced Information Networking and Applications - Workshop-CCPI-2018: The International Workshop on Cloud Computing Project and Initiatives (CCPI-2018), Krakow (Poland), 16-18 May 2018.
- [160] Ouarda Zedadra, Meysa Idiri, Nicolas Jouandeau, Hamid Seridi and Fortino Giancarlo, "Lévy Walk-based Search Strategy: Application to Destructive Foraging," In Proc. Of 13<sup>th</sup> IEEE International Symposium on Programming and Systems (ISPS), Algiers, Algeria, Apr., 24-26, 2018.
- [161] Ying Duan, Yun Luo, Wenfeng Li, Pasquale Pace, Giancarlo Fortino, "Software Defined Wireless Sensor Networks: A Review", In Proc. Of IEEE CSCWD 2018.
- [162] M. Paprzycky, Rafał Tkaczyk, Katarzyna Wasilewska, Maria Ganzhay, Marcin Paprzyckiz, Wiesław Pawłowski, Paweł Szmeja, Giancarlo Fortino, "Cataloging design patterns for Internet of Things artifact integration," in Proc. of IEEE ICC Workshop.
- [163] G. Fortino, L. Fotia, F. Messina, D. Rosaci and G.M.L. Sarne, "Forming Groups in the Cloud of Things Using Trust Measures", In Proc. Of The 12th International Symposium on Intelligent Distributed Computing (IDC 2018), Bilbao (Spain), Oct. 2018.
- [164] M. AL-Rakhmi, M. Alsahli, M. M. Hassan, A. Alamri, A. Guerrieri; G. Fortino, "Cost Efficient Edge Intelligence Framework Using Docker Containers," In Proc. Of IEEE PiCOM 2018, Athens, Greece, Aug 12-15, 2018.
- [165] C. Savaglio, G. Fortino, W. Russo, T. Leppänen and J. Riekkı, "Re-Engineering IoT Systems through ACOSO-Meth: the IETF CoRE based agent framework case study", In Proc. Of Workshop on Objects and Agents (WOA 2018), Palermo, Jun 2018.
- [166] Q. Li, R. Gravina, G. Fortino, "Posture and Gesture Analysis Supporting Emotional Activity Recognition," In Proc. Of IEEE Conference SMC 2018, Miyazaki (Japan), Oct. 6-9, 2018.
- [167] X. Fu, G. Fortino, W. Li, "Environment-Cognitive Multipath Routing Protocol in Wireless Sensor Networks", In Proc. Of IEEE Conference SMC 2018, Miyazaki (Japan), Oct. 6-9, 2018.
- [168] G. Fortino et al. "Opportunistic IoT Service to support safety driving from heterogeneous data sources," In Proc. Of BODYNETS 2018. Oulu (Finland), Oct. 2018.
- [169] G. Fortino et al. "Driving Operation Recognition using Smart Cushion based on Deep Neural Network," In Proc. Of BODYNETS 2018. Oulu (Finland), Oct. 2018.
- [170] Teemu Leppänen, Claudio Savaglio, Lauri Lovén, Wilma Russo, Giuseppe Di Fatta, Jukka Riekkı, Giancarlo Fortino: Developing Agent-Based Smart Objects for IoT Edge Computing: Mobile Crowdsensing Use Case. IDCS 2018: 235-247.



- [171] Franco Zambonelli, Mirko Viroli, Giancarlo Fortino, Barbara Re, "Towards Adaptive Flow Programming for the IoT: the Fluidware Approach," IEEE Percom, Kyoto, 2019.
- [172] P. Pace, G. Aloï, G. Caliciuri, R. Gravina, C. Savaglio, G. Fortino, G. Ibanez-Sanchez, A. Fides-Valero, J. Bayo-Monton, M. Uberti, M. Corona, L. Bernini, M. Gulino, A. Costa, I. De Luca, M. Mortara, "INTER-Health: An Interoperable IoT Solution for Active and Assisted Living Healthcare Services," IEEE WF-IoT, Limerick, 2019.
- [173] Claudio Savaglio, Giuseppe Campisano, Giuseppe Di Fatta, Giancarlo Fortino, "IoT Services Deployment over Edge vs Cloud Systems: a Simulation-based Analysis," 2019 IEEE INFOCOM WKSHPS: HotSALSA 2019: Hot Topics in Social and mobile connected Smart objects - HotSALSA 2019: Hot Topics in Social and mobile connected Smart objects.
- [174] R. Gravina, G. Fortino, "Multi-sensor Data Fusion for Emergency Prediction in Smart BAN-enabled Environments," 2019 IEEE EMBS International Conference on Biomedical & Health Informatics (BHI) - Special Session: AI techniques for multi-modality medical big data.
- [175] C. Savaglio, P. Gerace, G. Di Fatta, G. Fortino, "Data Mining at the IoT Edge", in Proc. Of IEEE ICCCN 2019, EoT Workshop, 2019. To appear.
- [176] Antonio Bosco, Adriano Augusto, Marlon Dumas, Marcello La Rosa and Giancarlo Fortino, "Discovering Automatable Routines From User Interaction Logs," in Proc. of BPM Forum 2019 @ BPM Conference, to appear.
- [177] C. de Farias, F. Delicato and G. Fortino, "A Density-Based Decision-Making Data Fusion Method for Multiapplication Wireless Sensor Networks," 2019 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCoM/CyberSciTech), Fukuoka, Japan, 2019, pp. 840-847. doi: 10.1109/DASC/PiCom/CBDCoM/CyberSciTech.2019.00153
- [178] Giancarlo Fortino, Lidia Fotia, Fabrizio Messina, Domenico Rosaci, Giuseppe M. L. Sarné: Supporting Agent CoT Groups Formation by Trust. WOA 2019: 71-76.
- [179] Teemu Leppänen, Claudio Savaglio, Lauri Lovén, Tommi Järvenpää, Rouhollah Ehsani, Ella Peltonen, Giancarlo Fortino, Jukka Riekkii, "Edge-based Microservices Architecture for Internet of Things: Mobility Analysis Case Study" has been accepted for presentation at the *IEEE GLOBECOM 2019*, December 9 – 13, in Waikoloa, Hawaii, USA.
- [180] Giancarlo Fortino, Fabrizio Messina, Domenico Rosaci and Giuseppe M.L. Sarné', "Using Blockchain for Reputation-based Cooperation in IoT," IDC 2019, to appear.
- [181] Cauteruccio F., Cinelli L., Fortino G., Savaglio C., Terracina G. (2019) Using Sentiment Analysis and Automated Reasoning to Boost Smart Lighting Systems. In: Montella R., Ciaramella A., Fortino G., Guerrieri A., Liotta A. (eds) Internet and Distributed Computing Systems. IDCS 2019. Lecture Notes in Computer Science, vol 11874.
- [182] Fortino G., Fotia L., Messina F., Rosaci D., Sarné G.M.L. (2019) Using Trust and "Utility" for Group Formation in the Cloud of Things. In: Montella R., Ciaramella A., Fortino G., Guerrieri A., Liotta A. (eds) Internet and Distributed Computing Systems. IDCS 2019. Lecture Notes in Computer Science, vol 11874.
- [183] Zedadra O., Guerrieri A., Seridi H., Fortino G. (2019) A Lévy Walk and Firefly Based Multi-Robots Foraging Algorithm. In: Montella R., Ciaramella A., Fortino G., Guerrieri A., Liotta A. (eds) Internet and Distributed Computing Systems. IDCS 2019. Lecture Notes in Computer Science, vol 11874.
- [184] Giancarlo Fortino, Lidia Fotia, Fabrizio Messina, Domenico Rosaci, Giuseppe M. L. Sarné: A Reputation Mechanism to Support Cooperation of IoT Devices. AI&IoT@AI\*IA 2019: 28-39.
- [185] Stefano Mariani, Roberto Casadei, Fabrizio Fornari, Giancarlo Fortino, Danilo Pianini, Barbara Re, Wilma Russo, Claudio Savaglio, Mirko Viroli, Franco Zambonelli: Case Studies for a New IoT Programming Paradigm: Fluidware. AI&IoT@AI\*IA 2019: 82-96.
- [186] Carmine De Napoli, Agostino Forestiero, Giancarlo Fortino, Andrea Giordano, Antonio Guerrieri, Demetrio Laganà, Giovanni Lupi, Carlo Mastroianni, Leonardo Spataro: IoT-HC: A Novel IoT Architecture for the Hybrid Cloud. ICCCN 2019: 1-6.

- [187] G. Aloï, G. Fortino, R. Gravina, P. Pace, C. Savaglio, "E-ALPHA: Edge-based Assisted Living Platform for Home cAre," 2020 IEEE INFOCOM WKSHPS: PERSIST-IoT: Workshop on Pervasive Systems in the IoT era - PERSIST-IoT 2020: Workshop on Pervasive Systems in the IoT era.
- [188] G. Muratore, J. A. Rincon, Vicente Julián, Carlos Carrascosa, G. Greco, Giancarlo Fortino: Towards a Dynamic Edge AI Framework Applied to Autonomous Driving Cars. PAAMS (Workshops) 2020: 406-415
- [189] Wentao Dong, Lin Yang and Giancarlo Fortino, "Soft multi-functional electronic skin for continuous eye motion monitoring," in *Proc. of IEEE International Conference on Human-Machine Systems, 2020*.
- [190] Yao Guo, Raffaele Gravina, Xiao Gu, Giancarlo Fortino and Guang-Zhong Yang, "EMG-based Abnormal Gait Detection and Recognition," in *Proc. of IEEE International Conference on Human-Machine Systems, 2020*.
- [191] Giancarlo Fortino, Fabrizio Messina, Domenico Rosaci, Giuseppe Sarnè and Claudio Savaglio, "Collaborative Environmental Monitoring through Teams of Trusted IoT devices," in *Proc. of IEEE International Conference on Human-Machine Systems, 2020*.
- [192] Giancarlo Fortino, Antonella Guzzo, Michele Ianni, Francesco Leotta and Massimo Mecella, "Exploiting Marked Temporal Point Processes for Predicting Activities of Daily Living," in *Proc. of IEEE International Conference on Human-Machine Systems, 2020*.
- [193] Rina Mary Mazza, Pasquale Legato and Giancarlo Fortino, "A multi-level simulation framework for IoT-based elderly care systems," In Proc. of 19th International Conference on Modeling & Applied Simulation, 17th International Multidisciplinary Modeling & Simulation Multiconference, ISSN 2724-0037 ISBN 978-88-85741-48-5 2020, DOI: 10.46354/i3m.2020.mas.015.
- [194] Evandro L. C. Macedo, Renato S. Silva, Lu'is F. M. de Moraes, and Giancarlo Fortino, "Trust Aspects of Internet of Things in the Context of 5G and Beyond", in 2020 4th Conference on Cloud and Internet of Things (CIoT), *to appear*.
- [195] M. M. Hassan *et al.*, "A Real-time e-Health Data Collection System from On-board Vehicle Drivers in Smart City," 2020 2nd International Conference on Sustainable Technologies for Industry 4.0 (STI), Dhaka, Bangladesh, 2020, pp. 1-6, doi: 10.1109/STI50764.2020.9350435.
- [196] Q. Li, R. Gravina, Y. Li and G. Fortino, "A Multi-sensor based Method for Self-isolated Patient Monitoring," 2021 29th Mediterranean Conference on Control and Automation (MED), 2021, pp. 651-656, doi: 10.1109/MED51440.2021.9480247.
- [197] D. Thakur, A. Guzzo and G. Fortino, "t-SNE and PCA in Ensemble Learning based Human Activity Recognition with Smartwatch\*," 2021 IEEE 2nd International Conference on Human-Machine Systems (ICHMS), 2021, pp. 1-6, doi: 10.1109/ICHMS53169.2021.9582455.
- [198] D. L. Presti, R. Gravina, C. Massaroni, D. Formica, E. Schena and G. Fortino, "A Multisensory Platform for Maximizing Collective Intelligence in the Operating Room," 2021 IEEE/ACM Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE), 2021, pp. 174-178, doi: 10.1109/CHASE52844.2021.00039.
- [199] Q. Li, J. Liu, R. Gravina, Y. Li and G. Fortino, "A UWB Radar-based Approach of Detecting Vital Signals," 2021 IEEE 17th International Conference on Wearable and Implantable Body Sensor Networks (BSN), 2021, pp. 1-4, doi: 10.1109/BSN51625.2021.9507032.
- [200] G. Fortino, F. Gabriele and C. Savaglio, "A low-cost Smart Farming prototype with Internet of Things (IoT) technologies and Edge Computing devices," 2021 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCoM/CyberSciTech), 2021, pp. 207-212, doi: 10.1109/DASC-PiCom-CBDCoM-CyberSciTech52372.2021.00045.
- [201] Giancarlo Fortino, Antonella Guzzo, Michele Ianni, Francesco Leotta, Massimo Mecella: Activity Daily Living prediction with Marked Temporal Point Processes (Discussion Paper). SEBD 2021: 387-394

- [202] Giancarlo Fortino, Lidia Fotia, Fabrizio Messina, Domenico Rosaci, Giuseppe M. L. Sarné, Claudio Savaglio: A Trust Model to Form Teams of Agentified AGVs in Workshop Areas. *WOA 2021*: 61-71
- [203] M. F. Alati, G. Fortino, J. Morales, J. M. Cecilia and P. Manzoni, "Time series analysis for temperature forecasting using TinyML," *2022 IEEE 19th Annual Consumer Communications & Networking Conference (CCNC)*, 2022, pp. 691-694, doi: 10.1109/CCNC49033.2022.9700573.
- [204] G. Fortino, L. Fotia, F. Messina, D. Rosaci and G. M. L. Sarné, "Grouping IoT devices by Trust and Meritocracy," 2021 International Conference on Cyber-Physical Social Intelligence (ICCSI), 2021, pp. 1-5, doi: 10.1109/ICCSI53130.2021.9736235.
- [205] L. Fotia, F. C. Delicato and G. Fortino, "Integrating Blockchain and Edge Computing in Internet of Things: Brief Review and Open Issues," 2021 International Conference on Cyber-Physical Social Intelligence (ICCSI), 2021, pp. 1-6, doi: 10.1109/ICCSI53130.2021.9736164.
- [206] Macedo, E.; Delicato, F.; Moraes, L. and Fortino, G. (2022). A Two-level Integrated Approach for Assigning Trust Metrics to Internet of Things Devices. In *Proceedings of the 7th International Conference on Internet of Things, Big Data and Security - IoTBDS*, ISBN 978-989-758-564-7; ISSN 2184-4976, pages 26-36. DOI: 10.5220/0010975800003194
- [207] J. Liu, K. Lin and G. Fortino, "AI-Driven Intelligent Vehicle Behavior Decision in Software Defined Internet of Vehicle," *2022 8th International Conference on Control, Decision and Information Technologies (CoDIT)*, 2022, pp. 135-140, doi: 10.1109/CoDIT55151.2022.9803919.
- [208] F. Giannini, G. Fortino, G. Franzè and F. Pupo, "Path planning for vehicle platoons under routing decisions: a distributed approach combining Deep Reinforcement Learning and Model Predictive Control," *2022 8th International Conference on Control, Decision and Information Technologies (CoDIT)*, 2022, pp. 734-739, doi: 10.1109/CoDIT55151.2022.9803896.
- [209] D. Avellenada, D. Mendez and G. Fortino, "BLE-based Indoor Positioning Platform Utilizing Edge Tiny Machine Learning," *2022 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCCom/CyberSciTech)*, 2022, pp. 1-8, doi: 10.1109/DASC/PiCom/CBDCCom/Cy55231.2022.9927866.
- [210] M. Rahmouni, M. Hanifi, C. Savaglio, G. Fortino and M. Ghogho, "An AIoT Framework for Precision Agriculture," *2022 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCCom/CyberSciTech)*, 2022, pp. 1-6, doi: 10.1109/DASC/PiCom/CBDCCom/Cy55231.2022.9927989.
- [211] D. Lo Presti *et al.*, "A quantitative assessment of team members physiological traits and interactions for the development of Collective Intelligence in a clinical scenario," *2022 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCCom/CyberSciTech)*, 2022, pp. 1-5, doi: 10.1109/DASC/PiCom/CBDCCom/Cy55231.2022.9927953.
- [212] F. Giannini, G. Franzè, F. Pupo and G. Fortino, "Autonomous Vehicles in Smart Cities: a Deep Reinforcement Learning Solution," *2022 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCCom/CyberSciTech)*, 2022, pp. 1-6, doi: 10.1109/DASC/PiCom/CBDCCom/Cy55231.2022.9927840.
- [213] G. Apicella, G. D'Aniello, G. Fortino, M. Gaeta, R. Gravina and L. G. Tramuto, "A Situation-aware Wearable Computing System for Human Activity Recognition," *2022 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCCom/CyberSciTech)*, 2022, pp. 1-7, doi: 10.1109/DASC/PiCom/CBDCCom/Cy55231.2022.9927852.
- [214] L. Yang, C. Deng, Z. Bie, Y. Chen, X. Fu and G. Fortino, "A Framework for Digital Crop Growing Modeling based on Agricultural Internet of Things," *2022 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data*

*Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCCom/CyberSciTech)*, 2022, pp. 1-6, doi: 10.1109/DASC/PiCom/CBDCCom/Cy55231.2022.9927809.

- [215] L. Carnevale, A. Ortis, G. Fortino, S. Battiato and M. Villari, "From Cloud-Edge to Edge-Edge Continuum: the Swarm-Based Edge Computing Systems," *2022 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCCom/CyberSciTech)*, 2022, pp. 1-6, doi: 10.1109/DASC/PiCom/CBDCCom/Cy55231.2022.9927883.
- [216] G. Fortino, C. Greco, A. Guzzo and M. Ianni, "Enabling Faster Security Assessment of Re-hosted Firmware," *2022 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCCom/CyberSciTech)*, 2022, pp. 1-6, doi: 10.1109/DASC/PiCom/CBDCCom/Cy55231.2022.9927780.
- [217] G. Apicella, G. D'Aniello, G. Fortino, M. Gaeta, R. Gravina and L. G. Tramuto, "An Adaptive Neuro-Fuzzy Approach for Activity Recognition in Situation-aware Wearable Systems," *2022 IEEE 3rd International Conference on Human-Machine Systems (ICHMS)*, 2022, pp. 1-6, doi: 10.1109/ICHMS56717.2022.9980773.
- [218] F. Giannini, G. Fortino, G. Franzè and F. Pupo, "A Deep Q Learning-Model Predictive Control Approach to vehicle routing and control with platoon constraints," *2022 IEEE 18th International Conference on Automation Science and Engineering (CASE)*, 2022, pp. 563-568, doi: 10.1109/CASE49997.2022.9926699.
- [219] G. Fortino, C. Greco, A. Guzzo and M. Ianni, "Neural Network based Temporal Point Processes for Attack Detection in Industrial Control Systems," *2022 IEEE International Conference on Cyber Security and Resilience (CSR)*, 2022, pp. 221-226, doi: 10.1109/CSR54599.2022.9850333.
- [220] G. D'Aniello, R. Gravina, M. Gaeta and G. Fortino, "Situation Awareness in Multi-User Wearable Computing Systems," *2022 IEEE Conference on Cognitive and Computational Aspects of Situation Management (CogSIMA)*, 2022, pp. 133-138, doi: 10.1109/CogSIMA54611.2022.9830672.

### Authored Books

- [1] Fortino G., Galzarano S., Gravina R., *Wearable Systems and Body Sensor Networks: from modeling to implementation*, Wiley-IEEE Press, May 2018, ISBN: 978-1-118-86457-9.
- [2] S. Karnouskos, P.J. Marron, G. Fortino, L. Mottola, J.R. Martinez de Dios, *Applications and Markets for Cooperating Objects*, SpringerBriefs in Electrical and Computer Engineering: Cooperating Objects Berlin Heidelberg: Springer-Verlag, 2014.
- [3] G. Fortino, "StateCharts Agents for Systems and Software Engineering", *proposal accepted in IEEE Press/Wiley Book Series on Systems Science and Engineering*, 2019, *to appear*.

### Edited Books

- [1] G. Fortino, C. Palau (Editors), "Next Generation Content Delivery Infrastructures: emerging paradigms and technologies", IGI Global, 2012.
- [2] G. Fortino, P. Trunfio (eds.), "Internet of Things based on Smart Objects: technology, middleware and applications", Springer Series on the Internet of Things: Technology, Communications and Computing, 2014.
- [3] G. Fortino et al. (eds.), "Management of Cyber Physical Objects in the Future Internet of Things: Methods, Architectures and Applications", Springer Series on the Internet of Things: Technology, Communications and Computing, 2015.
- [4] G. Fortino, R. Gravina, C. Palau, A. Liotta, et al. (eds.), "Interoperability, Integration, and Interconnection of Internet of Things Systems," Springer Series on the Internet of Things: Technology, Communications and Computing, 2018.

- [5] G. Fortino, Z. Wang (eds.), “Body Area Networks I: Post-proceedings of Bodynets 2017,” Springer Series on the Internet of Things: Technology, Communications and Computing. 2018.
- [6] R. Gravina, A. Longheu, A. Liotta, G. Fortino (eds.), “Data Science and Internet of Things,” Springer Series on the Internet of Things: Technology, Communications and Computing. 2020. <https://doi.org/10.1007/978-3-030-67197-6>
- [7] G. Fortino, C. Palau, et al. (eds.), “The INTER-IoT Project: An Holistic Approach for IoT Platforms Interoperability,” Springer Series on the Internet of Things: Technology, Communications and Computing. 2021. <https://doi.org/10.1007/978-3-030-82446-4>.
- [8] R. Buyya, L. Garg, G. Fortino, S. Misra (eds.), “New Frontiers in Cloud Computing and Internet of Things,” Springer Series on the Internet of Things: Technology, Communications and Computing. 2022. DOI: <https://doi.org/10.1007/978-3-031-05528-7>
- [9] G. Fortino, M. La Rosa, M. Mecella (eds.), “Integration of Internet of Things and Business Process Management,” Springer Series on the Internet of Things: Technology, Communications and Computing. 2019. *Proposal accepted, book under-preparation.*
- [10] F. Zambonelli, M. Viroli, G. Fortino, Barbara Re (eds.), “Fluidware,” Springer Series on the Internet of Things: Technology, Communications and Computing. 2022. *Proposal accepted, book under-preparation.*
- [11] G. Fortino, D. Kaber, D. Mendonca, A. Nurenberger (eds.), “Handbook on Human-Machine Systems”, IEEE Press-Wiley. 2023. *To appear on May 2023.*
- [12] C. Savaglio, G. Fortino, M. Zhou, J. Ma (eds.), “Device-Edge-Cloud Continuum: IoT Intelligence,” Springer Series on the Internet of Things: Technology, Communications and Computing. 2019. *Proposal accepted, book under-preparation.*

## Proceedings

- [1] G. Fortino, C. Mastroianni, C. Palau (Editors), UPGRADE-CDN '06: Proceedings of the first workshop on Use of P2P, GRID and agents for the development of content networks. *Not published.*
- [2] G. Fortino, C. Mastroianni, G. Pierre (Editors), [UPGRADE '07: Proceedings of the second workshop on Use of P2P, GRID and agents for the development of content networks](#), ACM Press, New York, NY, USA, 2007. *Note: ISBN: 978-1-59593-718-6.*
- [3] J. Sklenar, A. Tanguy, C. Bertelle, G. Fortino (Editors), ESM'2007: Proceedings of the 2007 European Simulation and Modeling Conference, EUROSIS-ETI, Ghent, Belgium, 2007. *Note: ISBN: 978-90-77381-36-6.*
- [4] G. Fortino, C. Mastroianni, M. Pathan (Editors), [UPGRADE '08: Proceedings of the third workshop on Use of P2P, GRID and agents for the development of content networks](#), ACM Press, New York, NY, USA, 2008. *Note: ISBN: 978-1-59593-997-5*
- [5] M. Benveniste, B. Braem, C. Dini, G. Fortino, R. Karnapke, J. Lloret Mauri, M. S. H. Monsi (Editors), SENSORCOMM 2008: Proceedings of the Second International Conference on Sensor Technologies and Applications, IEEE Computer Society, Los Alamitos (CA), USA, 2008. *Note: ISBN: 978-0-7695-3330-8*
- [6] G. Fortino, C. Mastroianni, M. Pathan, A. Vakali (Editors), UPGRADE '09: Proceedings of the forth workshop on Use of P2P, GRID and agents for the development of content networks, ACM Press, New York, NY, USA, 2009. *Note: ISBN: 978-1-60558-587-1*
- [7] M. Baldoni, C. Baroglio, J. Bentahar, G. Boella, M. Cossentino, M. Dastani, B. Dunin-Keplicz, G. Fortino, M-P. Gleizes, J. Leite, V. Mascardi, J. Padjet, J. Pavón, A. Polleres, A. El Fallah Seghrouchni, P. Torroni, R. Verbrugge (Editors), Proceedings of the 2nd Multi-Agent Logics, Languages, and Organisations Federated (MALLOW) Workshops, Turin, Italy, September 7-10, 2009, ISSN: 1613-0073.
- [8] Burakowski W., Casares V., Dini P., Jia X., Sierra-pérez M., Lloret Mauri J., Ung K. Y., Lehmann L., Sánchez F. J., Fortino G., Sales S., Xia F., Proceedings of the Fifth International Conference on Networking and Services (ICNS 2009), Los Alamitos, Calif: IEEE computer society, 2009.
- [9] G. Fortino, A. Garro, L. Palopoli, W. Russo, G. Spezzano (Editors), Proceedings of the 12th Workshop on Objects and Agents (WOA2011), CEUR-741, ISSN 1613-0073, 2011.

- [10] G. Fortino, C. Badica, M. Malgeri, R. Unland, (Editors), "Intelligent Distributed Computing VI", Springer, SCI series, Vol. 446. ISBN: 978-3-642-32523-6, 2013. <http://rd.springer.com/book/10.1007/978-3-642-32524-3/page/1>
- [11] Giancarlo Fortino, Stamatis Karnouskos, Pedro José Marrón, Jose L. Martinez Lastra, (Eds). CEUR Proceedings of CONET 2013 4th International Workshop on Networks of Cooperating Objects for Smart Cities 2013 (CONET/UBICITEC 2013), Vol. 1002, CONET-2013, online at <http://ceur-ws.org/Vol-1002>
- [12] Mukaddim Pathan, Guiyi Wei, and Giancarlo Fortino, (Editors), IDCS 2013, Springer, Lecture Notes on Computer Science (LNCS), Vol. 8223, Springer, 2013.
- [13] Rocco Aversa, Joanna Kolodziej, Jun Zhang, Flora Amato, and Giancarlo Fortino (eds.), "Algorithms and Architectures for Parallel Processing Part II," Lecture Notes on Computer Science (LNCS), Vol. 8286, Springer, 2013.
- [14] Giancarlo Fortino, Stamatis Karnouskos, Pedro José Marrón (Eds). CEUR Proceedings of UBICITEC 2014 5th International Workshop on Networks of Cooperating Objects for Smart Cities 2014 (UBICITEC 2014), Vol. 1156, CONET-2013, online at <http://ceur-ws.org/Vol-1156/>
- [15] G. Fortino et al. (eds.), IDCS 2014, Springer, Lecture Notes on Computer Science (LNCS), Vol. 8729, Springer, 2014.
- [16] Giancarlo Fortino, Junichi Suzuki, Yiannis Andreopoulos, Mehmet Yuce, Yang Hao and Raffaele Gravina (eds.), Proceedings of BODYNETS, 9th International Conference on Body Area Networks 2014, Publisher ICST, ISBN: 978-1-63190-047-1. <http://eudl.eu/proceedings/BODYNETS/2014>
- [17] Giancarlo Fortino, Weiming Shen, Jean-Paul Barthès, Junzhou Luo, Wenfeng Li, Sergio Ochoa, Marie-Helene Abel, Antonio Guerrieri, Milton Ramos (eds.), Proceedings of the 2015 IEEE 19th International Conference on Computer Supported Cooperative Work in Design (CSCWD), May 6-8, 2015, Calabria, Italy. ISBN: 978-1-4799-2001-3.
- [18] Giuseppe Di Fatta, Giancarlo Fortino, Wenfeng Li, Mukaddim Pathan, Frederic T. Stahl, Antonio Guerrieri: Internet and Distributed Computing Systems - 8th International Conference, IDCS 2015, Windsor, UK, September 2-4, 2015. Proceedings. Lecture Notes in Computer Science 9258, Springer 2015, ISBN 978-3-319-23236-2.
- [19] Eryk Dtkiewicz, Ren Ping Liu, Honggang Wang, Qi Zhang, Giancarlo Fortino, Ladislau Matekovits, Matti Hämäläinen and Wei Ni (eds.), Proceedings of Bodynets 2015 (10th EAI International Conference on Body Area Networks), 28th–30th Sep, Sydney, 2015. Publisher ICST, ISBN 978-1-63190-084-6. <http://eudl.eu/proceedings/BODYNETS/2015>
- [20] G. Fortino et al. (eds.), Proceedings of 9th International Conference on Ubiquitous Computing and Ambient Intelligence (UCAmI 2015), Lecture Notes in Computer Science 9454, Springer 2015, ISBN 978-3-319-26400-4.
- [21] Wenfeng Li, Shawkat Ali, Gabriël Lodewijks, Giancarlo Fortino, Giuseppe Di Fatta, Zhouping Yin, Mukaddim Pathan, Antonio Guerrieri, Qiang Wang: Internet and Distributed Computing Systems - 9th International Conference, IDCS 2016, Wuhan, China, September 28-30, 2016, Proceedings. Lecture Notes in Computer Science 9864, Springer 2016, ISBN 978-3-319-45939-4.
- [22] Ladislau Matekovits, Giancarlo Fortino, Matti Hämäläinen, Valeria Loscrì, Raffaele Gravina et al. (eds.), Proceedings of Bodynets 2016 (11th EAI International Conference on Body Area Networks), 15th–16th Dec, Turin (Italy), 2016.
- [23] G. Fortino et al. (eds), Proceedings of the 14th IEEE Conference on Networking, Sensing and Control (ICNSC 2017), Calabria (Italy), May 16-18, 2017.
- [24] G. Fortino et al. (eds), Proceedings of Bodynets 2017 (12th EAI International Conference on Body Area Networks), Oct., Dalian (China), 2017.
- [25] G. Fortino, Shawkat Ali, et al.: Internet and Distributed Computing Systems - 10th International Conference, IDCS 2017, Fiji, Fiji, Dec. 11-3130, 2017. Proceedings. Lecture Notes in Computer Science 10794: Springer 2018.
- [26] G. Fortino et al. Interoperability, Safety and Security in IoT, Third International Conference, InterIoT 2017, and Fourth International Conference, SaSeIoT 2017, Valencia, Spain, November 6-7, 2017, Proceedings.

Springer Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST), 2018.

- [27] Yang Xiang, Jingtao Sun, Giancarlo Fortino, Antonio Guerrieri, Jason J. Jung: Internet and Distributed Computing Systems - 11th International Conference, IDCS 2018, Tokyo, Japan, October 11-13, 2018, Proceedings. Lecture Notes in Computer Science 11226, Springer 2018, ISBN 978-3-030-02737-7
- [28] Claudio Savaglio, Giancarlo Fortino, Giovanni Ciatto, Andrea Omicini: Proceedings of the 1st Workshop on Artificial Intelligence and Internet of Things co-located with the 18th International Conference of the Italian Association for Artificial Intelligence (AI\*IA 2019), Rende (CS), Italy, November 22, 2019. CEUR Workshop Proceedings 2502, CEUR-WS.org 2019.
- [29] Raffaele Montella, Angelo Ciaramella, Giancarlo Fortino, Antonio Guerrieri, Antonio Liotta: Internet and Distributed Computing Systems - 12th International Conference, IDCS 2019, Naples, Italy, October 10-12, 2019, Proceedings. Lecture Notes in Computer Science 11874, Springer 2019, ISBN 978-3-030-34913-4
- [30] Jonice Oliveira, Claudio M. de Farias, Esther Pacitti, Giancarlo Fortino: Big Social Data and Urban Computing - First Workshop, BiDU@VLDB 2018, Rio de Janeiro, Brazil, August 31, 2018, Revised Selected Papers. Communications in Computer and Information Science 926, Springer 2019, ISBN 978-3-030-11237-0
- [31] G. Fortino et al. Proc. of the 1<sup>st</sup> IEEE International Conference on Human-Machine Systems, 2020. Roma (Italy), 7-9 Sept. 2020, on-line conference.
- [32] Proceedings of the 13th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2021). Editors: Ajith Abraham, Andries Engelbrecht, Fabio Scotti, Niketa Gandhi, Pooja Manghirmalani Mishra, Giancarlo Fortino, Virgilijus Sakalauskas, Sabri Pllana, Lecture Notes in Networks and Systems book series (LNNS, volume 417). <https://link.springer.com/book/10.1007/978-3-030-96302-6>
- [33] Taruna, Rishabh (2022). Analysis of Security Issues in Blockchain Wallet. In: Gupta, D., Khanna, A., Kansal, V., Fortino, G., Hassanien, A.E. (eds) Proceedings of Second Doctoral Symposium on Computational Intelligence . Advances in Intelligent Systems and Computing, vol 1374. Springer, Singapore. [https://doi.org/10.1007/978-981-16-3346-1\\_63](https://doi.org/10.1007/978-981-16-3346-1_63)
- [34] G. Fortino et al (eds). Proc. Of 2022 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCCom/CyberSciTech), 2022
- [35] Galya Rogova, Alicia Ruvinsky, Tom Ziemke, Giancarlo Fortino, Mary Freiman: IEEE Conference on Cognitive and Computational Aspects of Situation Management, CogSIMA 2022, Salerno, Italy, June 6-10, 2022. IEEE 2022, ISBN 978-1-6654-8330-8. DOI: 10.1109/CogSIMA54611.2022

## Patents

- [1] Giancarlo Fortino, Valerio Giampà, "Dispositivo e metodo per il monitoraggio continuativo, non invasivo con cadenza battito-battito dei parametri pressori arteriosi di una persona in movimento," Italian Patent, N. ITCS2011A000014.

## Newsletters & Interviews

- [1] G. Fortino, "Embedded Computing Frameworks for Body Sensor Networks", IEEE Life Sciences Newsletters, June 2013.
- [2] Galzarano S., Fortino G., Giannantonio R., The SPINE2 framework, 2012, CONET Newsletter N. 16. CONET - the Cooperating Objects Network of Excellence (FP7 INFISO-ICT-224053).
- [3] G. Fortino, P. Liu, et al. "SMC Technical Committee on: Interactive and Wearable Computing and Devices" on Systems, Man & Cybernetics Society's Newsletters, Issue 54, March 2016.
- [4] C. Badica, L. Braubach, G. Fortino, G. Rimassa, "Software Agents: Interviews", <https://www.computer.org/web/computingnow/content?g=53319&type=article&urlTitle=software-agents%3A-interviews>, in M. Ganzha, M. Paprzycki, and A. Omicini, "Software Agents: Twenty Years and Counting," Computing Now, vol. 6, no. 11, Nov. 2013, IEEE Computer Society [online]; <http://www.computer.org/web/computingnow/archive/november2013>.
- [5] L. Yang, G. Fortino, "Towards Trusted Social Internet of Things", TCSN Newsletter, Social Networks Technical Committee, 2019.

- [6] G. Fortino, C. Savaglio, “*ACOSO-Meth: a full-fledged methodology for the agent-based Internet of Things*”, TCCN Newsletter, 2019.

### Technical Reports

- [1] G. Fortino, “Java Multimedia Studio v1.0”, Technical Report N. *TR-97-043*, International Computer Science Institute, Berkeley, CA, USA, Nov., 1997.
- [2] G. Fortino, L. Nigro, A. Albanese, “A Time-Sensitive Actor Framework in Java for the Development of Multimedia Systems over the Internet Mbone”, Technical Report N. *TR-99-007*, International Computer Science Institute, Berkeley, CA, USA, Mar., 1999.
- [3] Albanese, G. Fortino, “Robust Transmission of MPEG video streams over lossy packet-switching networks by using PET”, Technical Report N. *TR-99-014*, International Computer Science Institute, Berkeley, CA, USA, Jun., 1999.
- [4] G. Fortino, C. Mastroianni, W. Russo, “Modeling and Analysis of a Cooperative Control Protocol”, Technical Report N. *RT-ICAR-CS-03-18*, Istituto di Calcolo e Reti ad Alte Prestazioni, Consiglio Nazionale delle Ricerche (ICAR-CNR), Rende (CS), Italy, Dec. 2003.
- [5] M. Esteve, G. Fortino, C. Mastroianni, C.E. Palau, W. Russo, “Collaborative Control of Media Streaming based on a Content Distribution Network”, Technical Report N. *RT-ICAR-CS-06-02*, Istituto di Calcolo e Reti ad Alte Prestazioni, Consiglio Nazionale delle Ricerche (ICAR-CNR), Rende (CS), Italy, Apr. 2006.
- [6] G. Fortino, C. Mastroianni, W. Russo, “Collaborative Media Streaming Services based on Content Networks”, Technical Report N. *RT-ICAR-CS-06-08*, Istituto di Calcolo e Reti ad Alte Prestazioni, Consiglio Nazionale delle Ricerche (ICAR-CNR), Rende (CS), Italy, Dec. 2006.
- [7] R. Giannantonio, F. Bellifemine, R. Gravina, A. Guerrieri, G. Fortino, M. Sgroi, "SPINE: Signal Processing In Node Environment". Technical Contribution. *The 1st European TinyOS Technology Exchange* (ETTX 2009), Cork, Ireland, February 10, 2009.
- [8] R. Conforti, G. Fortino, M. La Rosa, and A.H.M. ter Hofstede “History aware, real-time risk detection in business processes (extended version),” QUT ePrints 42222, Queensland University of Technology, <http://eprints.qut.edu.au/42222>, 2011.

### Theses

- [1] G. Fortino. Sviluppo orientato agli oggetti di sistemi distribuiti di misura e controllo: un caso di studio. (in italian) Laurea degree Thesis in Computer Engineering, Università della Calabria, July 1995.
- [2] G. Fortino. Java Multimedia Studio: un tool multimediale distribuito su Mbone e basato su un framework ad Attori. (in italia) Master Thesis in Advanced Technologies of Information and Communications. Istituto Internazionale per gli Alti Studi Scientifici (IIASS), Salerno, December 1997.
- [3] G. Fortino. An Actor-based Approach to the Development of Interactive Multimedia Systems on the Internet. PhD Thesis in Computer and Systems Engineering , XIII ciclo, Università della Calabria, December 2000.