Special Session: " *Body Sensor Networks in the era of pandemic* "

Organizing Chairs:

- Dr. Raffaele Gravina, University of Calabria, Italy
- Dr. Massaroni, Università Campus Bio-Medico di Roma, Italy
- Dr. Valeria Loscri, Inria Lille, France
- Prof. Edmund Seto, University of Washington, USA
- Dr. Rich Fletcher, Massachusetts Institute of Technology, USA
- Prof. Ye Li, Shenzhen Institutes of Advanced Technology, China

IMPORTANT DATES:

Paper Submission Deadline:	10 May 2021 (EXTENDED)
Paper Acceptance Notification:	30 May 2021
Camera-ready Registration:	4 July 2021

SUBMISSION INSTRUCTIONS:

https://www.bhi-bsn-2021.org/?page_id=2963

SUBMISSION LINK:

https://edas.info/newPaper.php?c=27988&track=107005

Abstract:

The COVID-19 pandemic clearly highlighted, in most countries worldwide, weakness of healthcare systems and lack of appropriate measures to contain the pandemic diffusion of the virus which is also the result of slow diagnosis and incapability of fine-grain outbreak focus recognition. As a matter of facts, where the pandemic has been well kept under control, a pivotal role was played by quick and accurate diagnosis methods coupled with efficient and precise contact tracing technologies.

The advances of body sensor networks, the massive diffusion of smart wearable sensing and computing, and the availability of machine learning and Big Data analytics platforms represent fundamental ingredients of infected patients assistance in terms of real-time remote monitoring, early symptoms screening, contact tracing, quarantine/self-isolation monitoring, and clinical management.

The main objective of this special session is to provide a medium for researchers and practitioners to present their research findings related to the synergy among bio-compatible sensor development, BSN, Edge/Cloud computing infrastructure, and human factors to leverage new and more effective technologies to promptly identify, track at fine-grain and possibly contain pandemics.

Topics of interest include:

- Biocompatible sensors
- Wearable devices
- Algorithms and Machine learning techniques for physiological signals
- Proximity and Contact tracing
- Smart personal protection devices
- Hygiene procedures monitoring
- Communication, information, and interoperable software platforms
- Emerging Communication Technologies
- Big Data Analytics
- Security and privacy
- Energy efficiency
- Human Factors
- Nanoscale sensors and communication in/on/around/between human bodies
- Applications and clinical trials

TPC :

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