

## *Special Section: Call for Papers*

### Announcing a Special Section in **IEEE Access**: **Wireless Body Area Networks**

*Submission Deadline: 31.1.2019*

**IEEE Access** invites manuscript submissions in the area of **Wireless Body Area Networks**. The Special Section collects extended versions of the best-ranked papers presented in Bodynets 2018 conference in Oulu, Finland. In addition, other researchers are encouraged to submit their recent research work for possible publication in the Special Section.

Wearable devices and wireless communications combined with a personalized health management are the future trends the healthcare practices and procedures are nowadays heading to. To make this progress happen, new technologies and methods are required to provide reliable measuring, end-to-end communications and data analysis mechanisms from the data source to the medical health records. Wireless body area networks (WBAN) are one major element in this process. Not limited only to on-body WBAN devices but also benefitting technologies which can distribute vital information inside a human body or allowing control of implantable gadgets are also in the main focus of this Special Section. Dependable wireless communications combined with versatile application areas, such as accurate localization or behavior analysis techniques, remote monitoring, adoption of vital sensors and actuators, etc. can benefit the increased use of new WBAN technologies in various healthcare related studies. At the end, this will make the healthcare processes more effective and user friendly, and simultaneously increase the safety of (out)patients. This Special Section focuses on various theoretical and experimental views on the WBAN applications, technologies, implementations and utilizations based on the extended versions of the best-evaluated papers from Bodynets 2018 as well as quality papers from open Call. The extended version of the paper compared to the one presented in Bodynets 2018 conference allow only 35% overlapping. Brand new research papers are welcome.

The topics of interest include, but are not limited to

- in-, on- and off-body communications and networking
- wearable computing
- embedded devices
- medical applications
- WBAN radio channel modeling
- WBAN antennas
- security aspects of WBAN or security for medical ICT
- experimentations of WBAN technologies and services
- utilization of WBAN in general

We also highly recommend the submission of multimedia with each article as it significantly increases the visibility, downloads, and citations of articles.

**Associate Editor:**

**Matti Hämäläinen**, Adjunct Professor, Centre for Wireless Communications, University of Oulu, Oulu, Finland. Email: [matti.hamalainen@oulu.fi](mailto:matti.hamalainen@oulu.fi)

**Guest Editors:**

**Daizuke Anzai**, Associate Professor, Nagoya Institute of Technology, Nagoya, Japan. Email: [anzai@nitech.ac.jp](mailto:anzai@nitech.ac.jp)

**Giancarlo Fortino**, Professor, Department of Informatics, Modeling, Electronics, and Systems, University of Calabria, Italy.

Email: [giancarlo.fortino@unical.it](mailto:giancarlo.fortino@unical.it)

**Jari Iinatti**, Professor, Centre for Wireless Communications, University of Oulu, Oulu, Finland. Email: [jari.iinatti@oulu.fi](mailto:jari.iinatti@oulu.fi)

**Lorenzo Mucchi**, Assistant Professor, University of Florence, Florence, Italy. Email: [lorenzo.mucchi@unifi.it](mailto:lorenzo.mucchi@unifi.it)

**Carlos Pomalaza-Raez**, Professor, Purdue University, Fort Wayne, IN, USA. Email: [cpomalaz@purdue.edu](mailto:cpomalaz@purdue.edu)

**Relevant IEEE Access Special Sections:**

- 1) Wearable and Implantable Devices and Systems
- 2) Advanced Information Sensing and Learning Technologies for Data-centric Smart Health Applications
- 3) Trends, Perspectives and Prospects of Machine Learning Applied to Biomedical Systems in Internet of Medical Things

**IEEE Access Editor-in-Chief:** Michael Pecht, Professor and Director, CALCE, University of Maryland

**Paper submission:** Contact Associate Editor and submit manuscript to:

<http://mc.manuscriptcentral.com/ieee-access>

For information regarding IEEE Access including its publication policy and fees, please visit the website

<http://ieeeaccess.ieee.org>

For inquiries regarding this Special Section, please contact the Associate Editor:

[matti.hamalainen@oulu.fi](mailto:matti.hamalainen@oulu.fi).