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Workshop on Wireless Body COMMunications in Medicine (WIBCOMM)

Sunday, September 9th, 2018. 14.00 – 17.30 h

<https://www.mcg.upv.es/en/wibcomm/>

Call for Papers

The introduction of wireless communications in medical devices has grown up substantially in the last years. This has allowed medical devices to monitor important physiological parameters of the human body and send these data to a remote node to be post-processed for health purposes. However, although a vast variety of body devices have been proposed so far, they can be classified in two main groups: wearable devices for control some important parameters such as blood pressure or heart rate (typically known as on-body devices); or implanted devices for inspection or measuring parameters from the inner organs (known as in-body devices). In both scenarios, the human body plays an essential role due to their particular electromagnetic properties. Such properties impact on different aspects of wireless communications: antenna designs, radio channel modelling, standardization and so on.

This workshop aims at surveying recent advances in wireless communications in the framework of wireless communications at the human body (on-body and in-body) covering aspects such as: simulation, testing, frequency bands, channel model, propagation or the electromagnetic emulation of the human body and others. Topics include, but are not limited to:

- Implanted devices
- Electromagnetic characterization of the human body
- Antennas for body area applications: wearables & implants
- Channel modelling & propagation in the environment of the body: in-body/on-body/out-of-the-body
- Experimental & theoretical propagation analysis for body applications
- Wireless sensor networks
- Wireless Capsule endoscopy
- SAR evaluation & measurements
- Interferences between medical devices & others
- Standardization for body area networks.
- Internet of Things (IoT) for healthcare applications
- Localization and tracking at body area networks: in-body or on-body devices

Submission Guidelines

Prospective authors are invited to submit technical papers of their previously unpublished work. Accepted workshop papers will be part of the Conference Proceedings and will be uploaded to IEEE Xplore. Papers should be submitted via EDAS; the links are available at <http://pimrc2018.ieee-pimrc.org> under "Authors". Papers should follow the same Author guidelines of the general symposium, which are available at <http://pimrc2018.ieee-pimrc.org/authors/submission-guidelines/>.

Key Dates

Paper submission:	May 18, 2018
Acceptance notification:	June 15, 2018
Final paper due:	June 29, 2018

Organizers

Chair:	Dr. Concepcion Garcia-Pardo, iTEAM Institute, Universitat Politècnica de València, Spain.
Vice-Chair:	Prof. Narcis Cardona, iTEAM Institute, Universitat Politècnica de València, Spain.