The Convergence of Wireless Technologies for Personalized Healthcare

Call for Papers

Scope and Topics of Interest

For the purposes of improving quality of life, efficient healthcare management, as well as disease prevention, real-time monitoring of various physiological signals has become important in the last decade. IEEE Std 802.15.6-2012 has been developed as an international standard for short-range wireless communications to connect small devices deployed on the surface, inside, or in the peripheral proximity of the human body. Combined with various biomedical sensors, real-time measurement and monitoring of physiological signals becomes possible through the use of body area network (BAN) technology. However, the realization of personalized healthcare has to involve other aspects of radio wireless technology. This workshop is aimed to be a discussion forum of wireless technology for personalized healthcare in a holistic approach. Although BAN technology has gained much attention in the last years, it is necessary that future research in this area considers the broader context in which BANs will operate. The objective of the workshop is to facilitate the interchange of ideas between researchers working in the different aspects of radio technology and communications that can support the realization of self management of chronic diseases as well as early diagnosis and prevention. Contributions from academia as well as the telecommunications and biomedical industry are welcome. Topics of interest include, but are not limited to:
- Body area network (BAN) technology
- BAN to BAN (BAN2BAN) cooperative communications
- BAN2BAN propagation and interference
- Advanced cellular communication systems (5G) for healthcare
- Ambient assisted living (AAL) using wireless technology
- Internet of Things (IoT) for AAL and healthcare applications
- Cloud computing for BAN and wearable devices
- Big data processing for BAN and mobile healthcare (m-health)
- Security and privacy of medical data in m-health
- Medical radar and its applications
- Therapeutic use of radio waves
- Medical wireless implants and electronic pills
- Regulation and standardization

Paper Submission Guidelines
The workshop accepts novel and previously unpublished papers. Papers should not exceed 5 double-column pages, and should follow IEEE templates as indicated here. Submitted papers will be subject to a peer-review process. All accepted papers will be included in the PIMRC conference programme and will be published by the IEEE Xplore. Papers should be submitted through EDAS.
**Important Dates**

**Submission** deadline: June 8, 2014 *(Extended to June 12, 2014)*  
**Notification** of acceptance: June 20, 2014  
**Camera-ready** deadline: June 27, 2014  
**Workshop** date: September 2, 2014

**Workshop organisers & Contact Information**

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