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CALL FOR PAPERS

THEME

The objectives of this conference are to advance medical diagnosis, treatment, and patient care through application of wireless communications, mobile computing and sensing technologies. Contributions are solicited regarding the interdisciplinary design of efficient technologies and protocols to help implement and provide advanced mobile health care applications. The essence of the conference lies in its interdisciplinary nature, with original contributions cutting across boundaries but all within the ambit of the application of mobile communications (technologies, standards, solutions, methodologies) aiming at the betterment of human health. As such, the conference will have a multi-tier approach, going from in-body sensor devices to ubiquitous patient monitoring environments.

TOPICS

- Advances in sensor devices for biomedical monitoring
- Miniaturization of wireless devices and micro sensors for medical applications
- RF Integrated Circuits for low power medical applications
- Printable-flexible-stretchable electronics for wearable systems
- Personal area networks and body area sensor networks
- High data rate wireless protocols for biosignals
- Heterogeneous wireless technologies and their co-existence in clinical environments
- Ad hoc wireless networks for enhanced monitoring
- Health monitoring
- Healthcare telemetry and telemedicine
- Remote diagnosis and patient management
- Biomedical devices for remote monitoring Intra-body communication
- Energy scavenging for wireless biomedical applications
- E-textile integrated biosensors and circuits
- Energy management and optimization issues in biomedical devices and networks
- Wearable, outdoor and home-based applications
- Wearable medical devices and sensors
- Implantable and ingestible medical devices and sensors
- Decision support algorithms for data analysis
- Microwave interaction with biological tissues
- All-pervasive wireless systems for health applications

KEYNOTE SPEAKERS

- **Andreas Lymberis** – European Commission, Research program officer in Components Unit, Directorate General for Communications Networks, Content and Technology
- **Richard Kemkers** – Philips Research Eindhoven, Head of the Department "Patient Care Solutions"
- **Gisele Roeseems-Kerremans** – Deputy Head of (ICT for) Health and Wellbeing unit with DG CONNECT, the Communications Networks, Content and Technology Directorate General of the European Commission
- **Gianluca Lazzi** – USTAR Professor and Department Chair, Department of Electrical and Computer Engineering, University of Utah
- **May D. Wang** – Associate Professor, Wallace H. Coulter Department of Biomedical Engineering, Georgia Institute of Technology.

SPECIAL SESSIONS:

- Advances in Intra-Body Communication (IBC)
- Medical Diagnosis and Therapy Applications of Electromagnetic Fields (MDTA)
- Current Trends in Wearable Technologies, Body Sensor Networks and Internet-of-Things enabling Pervasive Healthcare (BSN)
- Ubiquitous Smart Wireless Communication Technologies for Remote Healthcare (SWCT)
- RF Challenges and Opportunities for Mobile Health (RFmH)

SATELLITE EVENT:

Innovative Systems and Services: EU-Funded research and Industry Forum

WORKSHOPS:

- Advances in Personalized Healthcare Services (APHS)
- Smart Wearable and Autonomous Devices for Wound Monitoring and Therapy (SWAD)
- Advances in Healthcare Applications based on RFID technology (RFID)
- The challenge on integrating wireless technology into Medical Devices (MDT)
- eHealth@Home - Infrastructure and services for remote multi-parameter monitoring, analysis and support (eHealth)

SPECIAL ISSUE:

Selected papers will be invited for submission to a Special Issue of the Journal of Biomedical and Health Informatics (former IEEE Transactions on Information Technology in Biomedicine).

PAPER SUBMISSION

Authors are invited to submit papers in the format defined by the IEEE Guidelines. Regular papers and invited papers are allowed up to 4 pages including all figures, tables and references.

STUDENT PAPER CONTEST

A Student Contest will be held during Mobihealth 2014. The contest is open to all Master and PhD students, who appear as the first author and present the paper at the conference.

IMPORTANT DATES

Paper Submission Deadline: **29 July 2014** Camera-ready Papers: **20 September 2014**
Acceptance Notification: **27 August 2014** Early Registration Deadline: **20 September 2014**