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Workshop Proposal on "Networking Implantable Medical Devices"

Co-located with the ICETE DCNET conference

(Extended versions of accepted papers will be published in the Journal of Biomedicine and Biotechnology, Impact Factor 1.25)

Medical communication is a fast-growing interdisciplinary field of study that underlines the use of computer and communication technology to help assisting healthcare professionals in the process of diagnosis, treatment, monitoring, medication prescription, referral, information retrieval and communication, documentation and transactions. The rapid evolution of medical communication and the arise of a plethora of underlying technology challenges make it vital for researchers to stay abreast of current advances and emerging trends. Throughout the last years, healthcare-related components and devices have been constantly cited in the MIT technology review (<http://www.technologyreview.com/tr10/>) among the Top 10 Emerging Technologies. With respect to intrinsic characteristics of such devices in terms of processing, memory, storage, and energy capabilities, new protocols, standards, and models are needed to implement efficient communication platforms allowing accurate and real-time transmission of the collected medical data.

This workshop aims at bringing together researchers, scientists, engineers, and practitioners throughout the world to present their latest research findings, ideas, developments and applications in the area of medical communication. We expect from this workshop to achieve the following objectives:

- To explore the impact of networking architectures and infrastructures on the performance of medical applications;
- To assess the use of distributed and heterogeneous electronic information records by healthcare professionals;
- To identify and analyze specific factors that have hindered the use of communication technologies in medical applications;
- To explore models and techniques that improve of existing ICT-based service delivery platforms developed for medical purposes.

We encourage contributions describing innovative work addressing the use of information and communication technologies in medical applications. Topics of interest include, but are not limited to:

- Body sensor networks,
- Networking implantable and wearable sensors,
- Security, Trust and Privacy in eHealth and telemedicine
- Cloud architectures for medical communication
- Processing and transmission techniques for medical image records
- E-medicine and eHealth information and network Infrastructure
- Real-time eHealth communications technologies
- Wireless communication technologies for medicine, biology, and life sciences
- Biomedical robotic methods
- Attacks on medical networks and devices
- Novel applications of cryptography to medical or intimate data

Important Dates

Submission deadline: April 27, 2012

Notification of acceptance: May 21, 2012

Camera ready copy due: June 1, 2012