

BodyNets 2010

as Bulling, ETH, Swiss

The Fifth International Conference on Body Area Networks

Sponsors:



Call for Papers:

Recent advances in the field of wireless sensor networks have moved them beyond their traditional areas of application in monitoring of remote and mobile environments. Sensor networks are increasingly being deployed within and around the human body to form Body Area Networks (BodyNets). In addition to monitoring focused applications, BodyNets allow also for closed loop systems incorporating actuators, utilized in diverse applications such as physiological monitoring, human computer interactions, education and entertainment through interactive games. This conference will explore and explain the scope and challenges of designing, building, and deploying BodyNets. In this regard, the conference aims to establish a forum to bring together research professionals from diverse fields including computer science, biomedical engineering and medicine in both academia and industry to address the technical, social, system and application issues related to BodyNets.

Topics of Interest (but not limited)

- **Communications and Networking**
 - In-body, on-body, and around-body networks
 - Communication techniques and protocols for BodyNets
 - Scalable, flexible network architectures & deployments
 - Networking and security issues for BodyNets
 - Advanced propagation and channel model for BodyNets
- **Medical Applications**
 - Pervasive health care and patient monitoring
 - Integrating BodyNets into the healthcare system
 - Novel closed-loop applications of BodyNets
- **Systems and Technology**
 - System design issues, and performance modeling
 - Signal processing, reliability and fault-tolerance issues
 - Emerging self-powered BodyNets
 - Novel wireless communication technologies
- **Wearable Computing**
 - Wearable system design issues
 - Entertainment, consumer electronics
 - Assistive technologies for independent aging

Submission Instructions

Authors are invited to submit full papers of up to 8 pages, short papers of up to 4 pages, and poster papers of up to 2 pages, in ACM conference proceeding format through ASSYST.

(<http://assyst-online.org/submission/login/loadHome.do.php>)

All accepted papers will be published in Springer LNICST.

(http://www.icst.org/publications/lecture_notes_icst)

Distinguished papers accepted and presented at BodyNets 2010, after further revisions, will be published in International Journal of Autonomous and Adaptive Communications Systems, and ACM MONET special issue on " Ubiquitous Body Sensor Networks".

September 10 – 12, 2010

Corfu Island, Greece

<http://www.bodynets.org/>

Important Dates:

Full Paper Due 10 March, 2010 (11:59 PDT)

Notification 21 May, 2010

Camera Ready 21 June, 2010

Organizing Committee

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