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Journal of Communications (JCM, ISSN 1796-2021)
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Special Issue on Wireless Aspects of Telehealth

Telehealth is the use of electronic information and communication technology to deliver health and medical information and services over large and small distances. Broadband wireless services available today, along with more powerful and convenient handheld devices, will enable a transformational change in health management and healthcare with the introduction of real-time monitoring and timely responses to a wide array of patient needs. Further, a network of low-cost sensors and wireless systems help in creating constantly vigilant and pervasive monitoring capability at home and at work. The goal of this issue is *to bring together the recent research efforts in this growing field, including standards, system architectures, propagation models, and lower layer protocols for body area networks*. Topics of interest include, but are not limited to:

- Simulation, analytical modeling, and measurements of body area networks (BANs)
- QoS provision and differentiation, security and fault tolerance issues in BANs
- Protocols and algorithms for the PHY, MAC and Network layer
- Data aggregation and fusion algorithms for in-network information processing
- Integration of BANs with heterogeneous networks
- Antenna design and channel models for in- and on-body signal propagation
- Near field communication (e.g., capacitive, electromagnetic, and inductive) and implantable systems
- Multimedia coding and mobile computing
- Biosignal processing and pattern classification
- Embedded decision support systems
- Sustainable, Harvesting-aware BSNs and PANs (Personal Area Networks)
- Wireless body based communication
- Design methodologies, tools and formal methods
- Biosignal compression and power-aware signal processing

Original, unpublished research contributions, position papers, review, and invited articles will be considered for the issue. The papers should be formatted according to JCM guidelines (<http://www.academypublisher.com/jcm/authorguide.html>). Authors should submit their complete manuscript via EDAS according to the following timetable:

Manuscript Submission	Sept. 30, 2011
First Review cycle	Dec. 30, 2011
Second Review cycle	Jan. 30, 2012
Final Manuscript Due	Mar. 1, 2012
Publication	2nd Quarter, 2012

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