Call for Papers

ACM/Springer Mobile Networks and Applications (MONET) Journal

Special Issue on Pervasive Healthcare

Pervasive healthcare is emerging both as a solution to many existing healthcare problems such as significant number of medical errors, considerable stress on healthcare providers, and partial coverage of healthcare services in rural and underserved areas worldwide, and as an opportunity to provide better healthcare services to an increasing number of people using limited financial and human resources. Pervasive healthcare can be defined as healthcare to anyone, anytime, and anywhere by removing locational, time and other restraints while increasing both the coverage and quality of healthcare. The broad definition includes prevention, healthcare maintenance and checkups, short-term monitoring (or home healthcare monitoring), long-term monitoring (nursing home), personalized healthcare monitoring, incidence detection and management, and, emergency intervention, transportation and treatment. With an increasing cost of healthcare services and an exponential increase in the number of seniors and retirees in developed countries have created several major challenges for policy makers, healthcare providers, hospitals, insurance companies and patients. Pervasive healthcare is considered a solution to many of these problems as well as a possible future of healthcare services.

To make the vision of pervasive healthcare a reality, there are many serious challenges that must be addressed including lack of comprehensive coverage of wireless and mobile networks, reliability of wireless infrastructure, general limitations of hand-held devices, medical usability of sensors and mobile devices, interference with other medical devices, privacy and security, payment and many management issues in pervasive healthcare. The possible topics for this special issue are:

- Patient monitoring in diverse environments
- Using mobile devices for healthcare information storage, update, and transmission
- Sensing of vital signs and transmission using wireless networks
- Forming ad hoc wireless networks for enhanced monitoring of patients
- Networking support for pervasive healthcare
- Managing healthcare emergency vehicles and routing
- Network support for mobile telemedicine
- Pervasive healthcare applications
- Representation of medical information in pervasive healthcare environment
- Role of medical protocols in pervasive healthcare
- Improved delivery of healthcare services
- The usability of wireless-based solutions in healthcare
- Security and privacy in pervasive healthcare
- Training of healthcare professional for pervasive healthcare
- Managing the integration of wireless solutions in pervasive healthcare

The special issue will also include significantly expanded versions of the best papers from First Pervasive Healthcare Conference (http://www.pervasivehealth.org).
Schedule:
Submission of Papers: October 1, 2006
Acceptance Notification: January 15, 2007
Final Papers Due: March 15, 2007

Submission Guidelines:
Authors should submit papers not exceeding 20 double spaced pages, excluding figures, tables and references, in pdf to Upkar Varshney (uvarshney@gsu.edu) by October 1, 2006. For detailed author guidelines, please see http://www.kluweronline.com/issn/1383-469X/contents.

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