

# AeHRC, CSIRO & IEEE Queensland EMBS Chapter Presents - An Invited Talk

**DATE: Tuesday, 21<sup>st</sup> February 2012**

TIME: 2:00pm – 3:30 pm

VENUE: Auditorium, University of Queensland Centre for Clinical Research (UQCCR)  
Building 71/918, Royal Brisbane & Women's Hospital Campus  
Herston, QLD, 4029

## Ubiquitous Computing for Clinical Environment

By

**Professor Tomohiro Kuroda**  
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### Abstract

A Hospital Information System (HIS) has turned a hospital into a gigantic computer with huge computational power, huge storage, and wired/wireless local area network. On the other hand, a modern medical device, such as an echograph, is a computer system with several functional units connected by an internal network named a bus. Therefore, we can embed such a medical device into the HIS by simply replacing the bus with the local area network. Introduction of sensor network infrastructure changes medical devices as peripherals of HIS, and enabling position tracking of the devices on the sensor network may lead to the emergence of disruptive innovation in the clinical field. This lecture provides ongoing project to introduce sensor network infrastructure and its applications under clinical environment of Kyoto University Hospital.

### Biography

Professor Tomohiro Kuroda is the vice CIO of Kyoto University Hospital and is an associate professor of Graduate School of Medicine and of Graduate School of Informatics at Kyoto University. He received B.S. in information science from Kyoto University in 1994, M.S. and Ph.D. in information science from Nara Institute of Science and Technology (NAIST) in 1996 and 1998. He was an assistant professor of Graduate School of Information Science at NAIST from 1998 to 2001, a lecturer of Department of Medical Informatics of Kyoto University Hospital from 2001 to 2006, and an associate professor of Graduate School of Engineering Science of Osaka University from 2007 to 2009. He was also with Department of Information Processing Science of University of Oulu, Finland in 2001 and 2006, where he holds the rank of visiting professor. His current research interests include Human Interface, Virtual/Augmented Reality, Wearable/Ubiquitous Computing, and Medical/Assistive informatics. He takes a role of a councilor of JAMI and JSMBE, the chief editor of transactions of JSMVR, the bureau chief of JASL, and others. He is a member of IEEE, VRSJ, HISJ, ISCIE, and others.

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RSVP to DR. AMOL WAGHOLIKAR by 1 pm Monday 20 February 2012 via email:

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