

APRSC 2012 pre-conference technical Seminar: “**4G Wireless Telecare Networks – Extending Reliable Healthcare Service with High Mobility**”

- Organised by:** Asia Pacific Radio Spectrum Conference 2012 Organising Committee; and Electronics and Communications Section Committee (ECS), The IET Hong Kong
- Supported by:** IEEE Consumer Electronics Society (CES) Hong Kong Chapter
IEEE Engineering in Medicine & Biology Society (EMBS) HK-Macau Joint Chapter
Chinese Institute of Electronics Hong Kong (CIE Hong Kong)
The Institute of Industrial Engineers (Hong Kong) – IIE (HK)
- Date:** 9 February, 2012 (Thursday)
Time: 6:30 pm – 8:00 pm
Venue: Room M107, The Hong Kong Polytechnic University
Language: English
Enrollment: www.theiet.org.hk/
Fees: Free of charge
Participants: 50, on first-come first-served basis
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Eddie P.S. Liu, email: eddieliu88@gmail.com , psliu@theiet.org
- Registration:** For IET members, please use the online registration service in IET-HK website at <http://www.theiet.org.hk/> under the “**News & Event**” pull-down menu.
- For non-IET members, please complete the IET-HK Activities Reply Form downloadable from IET-HK web: <http://www.theiet.org.hk> under **Members Zone’s Download Form** and submit it by means of fax to Attn: IET-HK Branch Office (fax no: 2778 1711) or by email to eddieliu88@gmail.com or psliu@theiet.org or khung@ouhk.edu.hk .

Abstract:

Wireless telecare has been widely used in many countries to take care of the well-being of people with special needs. Telecare finds itself in many applications ranging from improving personal health at home to critical life-saving Accident & Emergency Unit of Hospitals. Wireless Wide Area Network (WWAN) that operates in an inhospitable outdoor environment demands stringent reliability assurance for data delivery in emergency care. Prognostics is the process of predicting the future reliability of a product by assessing the extent of deviation or degradation of a product from its expected normal operating conditions. Health monitoring is a process of measuring and recording the extent of deviation and degradation from a normal operating condition. The seminar focuses on bringing the prognostics and 'health' (of the telemedicine network) monitoring methodology to improve 'health' (as in the human body) care services with the objective of ensuring service availability and reliability. 4G wireless communications provide added advantage of high-speed vehicular connections over existing HSPA systems, making it particularly suited for comprehensive telecare on-the-go.

About the Guest Speaker:

Bernard Fong obtained his BS degree in electronics from University of Manchester Institute of Science

and Technology, U.K. and PhD in medical technology from the University of New South Wales, Australia in 1993 and 2005, respectively. His research interests are broadly in the areas of healthcare technology and telemedicine networks. He is currently serving in the Technical Program Committee of IEEE International Conference on Consumer Electronics (ICCE) and has served in the organizing committees of several IEEE international conferences, and the General Chair for ConnectingHealth Workshop. He is currently serving as an editor for the IEEE Consumer Electronics Society and was the Editor-in-Chief for the International Journal of Information Technology between 2003 and 2005, a guest editor for the IEEE Communications Magazine on Wireless Technology Advances and Challenges for Telemedicine in April 2006, IEEE Transactions on Affective Computing in 2010; and an associate editor for the Journal of Advances in Information Technology and E-Commerce Research and Applications.

About the APRSC2012 pre-conference Seminar:

This technical seminar on “**4G Wireless Telecare Networks – Extending Reliable Healthcare Service with High Mobility**” is a pre-conference seminar event of the Asia Pacific Radio Spectrum Conference 2012 (APRSC2012). The APRSC2012 radio conference has been planned by the steering committee and the organising committee and is scheduled to be held on 12-13 April 2012. In relation to the conference event information about this APRSC2012 radio spectrum conference, please note the advertisement in the IET-HK Newsletters, and browse the APRSC2012 conference web site for more details.