CALL FOR PAPERS: Special Issue on

4G Health
The Long Term Evolution of m-Health

The major advances in mobile healthcare technologies (m-health) in recent years have created new and innovative opportunities for new health care mechanisms and delivery services. Since the definition and the introduction of this emerging concept in the special issue the IEEE Transaction on Information Technologies in Biomedicine in 2004, it became since then one of the key domains within the e-health and wireless telemedicine bringing together major academic research and industry disciplines worldwide.

The recent emergence of long term evolution (LTE) communications and beyond 3G mobile and networks technologies in recent years and their potential impact on next generation of m-health systems, warrant a new and yet another special call to address the evolution of this domain and the new research challenges and applications within a new paradigm of 4G health. It is expected that the convergence of these emerging communication and network systems around mobile health applications will enable global and cost effective connectivity solutions that will have powerful impact on the way different healthcare services are designed delivered in the future. However, the introduction and the integration of these technologies into m-health domain need to be evaluated and validated in a systematic and detailed way. It is therefore timely to address these issues and challenges in this special section.

The purpose this call is to assemble original and innovative papers and contributions in the area of emerging future wireless and network technologies for next generation of m-health systems. We welcome especially applications that leverage the new broadband technologies such as WiMAX and other LTE communication systems. The relevant challenges of medical quality of services in different healthcare domains and novel studies of emerging low power short range communications and localization technologies for assisted living and wearable systems are also encouraged. We invite authors to submit their original papers and contributions addressing (but not limited to) the following topics:

- Beyond 3G based and long term evolution (LTE) of m-health systems and applications.
- Emerging wireless broadband and multimedia networks for health care.
- Next generation of home care and assist living systems.
- Next generation of low power short communications and localizations for healthcare.
- Future advances in wearable systems and body area networks.

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SUBMISSION OF MANUSCRIPTS

Manuscripts must be prepared according to the format of the IEEE Transactions (bme.ee.cuhk.edu.hk/TITB/instr4authors.html) and electronically submitted through the web-based Manuscript Central (embs-ieee.manuscriptcentral.com). When submitting, authors are requested to choose “4G Health; The Long Term Evolution of m-health- Due date: 1 October 2010)” in the manuscript type to indicate that the paper is intended for this special issue.

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