Call for Papers for Special Issue of *Mobile Networks and Applications* “Recent Advances on the Next Generation of Mobile Networks and Services”

Following the great success of 2G and 3G mobile networks and the fast growth of 4G, the next generation mobile networks or 5th generation wireless systems (in short 5G) was proposed aiming to provide infinite networking capability to mobile users. Different from 4G, 5G is much more than increased maximum throughput. It aim to involve and benefit from many current technical advances including massive dense networks, interference and mobility management, Internet of Things (IoT), pervasive and social computing, mobile ad hoc networks (MANET), cognitive radio, World Wide Wireless Web (WWWW), cloud computing, IPv6, and so on. How 5G should and will be, what will be the keys for 5G? What is the perspective of 5G architecture and technologies? How to effectively apply and benefit from the above technologies and make them intelligently interoperate together? How can 5G stimulate our innovation for the next generation of mobile networks and services? Obviously, integrating all above existing advanced technologies and innovating new techniques for 5G bring extreme challenges on 5G networks and services in both research and development. This study has just initiated in both industry and academia, but with great fervor all over the world.

This special issue aims at providing a forum to discuss the recent advances on 5G technologies, propose innovations and investigate technology enablers and business aspects for the next generation mobile networks and services. Topics of interest of this special issue include, but are not limited to:

- 5G architecture
- 5G communication and network interoperability
- High speed transmission collaboration
- Heterogeneous 5G networks
- Intelligent 5G service provision
- World Wide Wireless Web (WWWW)
- 5G security and trust technologies
- Privacy preservation and enhancement in 5G
- Cognitive radio with artificial intelligence and evolution
- IoT technologies in 5G
- (Mobile) cloud computing and 5G
- MANET for 5G
- Software Defined Networking and 5G
- 5G intelligent terminals
- Data mining and its applications in 5G
- Social computing and pervasive computing for 5G
- Innovate 5G service platforms
- Adaptive and smart antenna, MIMO
• Energy efficiency and 5G QoS
• D2D communications
• Experimental prototypes and results related to the above topics

Submissions

Concerning the preparation of manuscripts, please refer to the “Author Guidelines” page at the journal website, http://www.springer.com/engineering/signals/journal/11036. Manuscripts must be submitted through the online submission system: https://www.editorialmanager.com/mone/ by selecting the corresponding track. When submitting papers, authors should identify “Manuscript Type” as “Special Issue”, and enter “Running Head” and “Special Issue Title” as “SM 142 – CIT 2014”, respectively. Contributing authors might also be asked to review some of the papers submitted to this special issue. All papers will be rigorously reviewed based on quality: original, high scientific quality, well organized and clearly written, sufficient support for assertions and conclusions, appropriate title, abstract includes important points of the paper, satisfactory presentation in English, pertinent references, clear tables, and figures. Each paper will go through a rigorous peer-review process by at least three international researchers.

Time Schedule

Paper submission due: April 1st, 2015
Notification of decision: August 1st, 2015
Revision due: September 1st, 2015
Acceptance notification: November 1st, 2015
Approximate publication date: subject to journal publication schedules

Guest Editors

Zheng Yan, Xidian University, China
Athanasios V. Vasilakos, University of Western Macedonia, Greece
Laurence T. Yang, St. Francis Xavier University, Canada

Contacts:
Please email inquiries concerning this special issue to:
Prof. Zheng Yan, Email: zhengyan.pz@gmail.com
Prof. Athanasios V. Vasilakos, Email: vasilako@ath.forthnet.gr
Prof. Laurence T. Yang, Email: ltyang@gmail.com