



**Call for Papers for the Special Issue of the  
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**On “Key Technologies for 5G, the Next Generation of Mobile Networks and Services”**

**Edited By: Professor Mohammad S. Obaidat, Fellow of IEEE and Fellow of SCS**

Following the great success of 2G and 3G mobile networks and the fast growth of 4G, the 5th generation mobile networks or 5th generation wireless systems (in short 5G) were proposed to offer “infinite” networking capability and unrivalled user experiences for mobile users at any time and in any places and situations. 5G systems aim to involve and benefit from many current technical advances including massive dense networks, Software-Defined Networking (SDN), Network Functions Virtualization (NFV), data mining, mobile ad hoc networks (MANET), cognitive radio, and so on. Their development and deployment will also stimulate the evolution of many existing technologies, such as social networking and cloud computing, as well as Internet of Things (IoT). What are the key technologies to make 5G fly? How can 5G stimulate our innovation? Without any doubt, 5G systems introduce tremendous challenges in both research and development. This special issue aims at providing a forum to discuss the perspective of 5G, explore key 5G technologies, innovate new techniques and solutions for 5G 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
- Software defined networking and network functions virtualization
- 5G communication and network interoperability
- High speed transmission collaboration
- MANET and pervasive computing for 5G
- 5G security and trust technologies
- Privacy preservation and enhancement in 5G
- 5G identity management
- IoT technologies in 5G
- Mobile cloud computing/social computing and 5G
- Data mining and its applications in 5G
- Innovative 5G service platforms
- Energy efficiency and 5G QoS
- Cognitive radio with artificial intelligence and evolution
- 5G terminals
- Experimental prototypes and results related to the above topics
- Performance evaluation studies

***Submissions***

Concerning the preparation of manuscripts, please refer to the “Author Guidelines” page at the journal website, <http://www3.interscience.wiley.com/cgi-bin/jhome/5996>. Manuscripts must be submitted through the online submission system: <http://mc.manuscriptcentral.com/IJCS> by selecting the “Special Issue Title” “5GKeyTech”. Contributing authors may also be asked to review some of the papers submitted to this special issue. All papers will be rigorously reviewed by at least three international experts.

***Important Dates***

Paper submission due: December 1<sup>st</sup>, 2014  
Notification of decision: March 1<sup>st</sup>, 2015  
Revision due: April 1<sup>st</sup>, 2015  
Acceptance notification: July 1<sup>st</sup>, 2015  
Approximate publication date: Second half of 2015, subject to journal publication schedules

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