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**ACM/Springer Mobile Networks & Applications (MONET)**  
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**SPECIAL ISSUE ON**  
**5G Wireless Communication Systems and Advanced Image Processing**

**Overview:**

Both the mobile data traffic and the number of devices connected to the Internet are expected to increase rapidly in the next few years. Meanwhile, new applications and services with significantly higher expectations from the mobile communication are introduced to the users: busy hour multimedia traffic is expected to grow more rapidly than average traffic; machine type communication services result in spatially and temporally varying demand etc. Therefore, a future wireless network will not only must support a fast growing overall mobile data volume and a significantly increased number of connected devices, but also adapt to dynamically fluctuating traffic demands and a great deal of new requirements of future service portfolios. To satisfy the above trends, mobile stakeholders are already preparing the technology roadmap for “5G”, which promises to meet all sorts of diverse and extreme requirements. The aim of special issue is to bring together researchers to present their latest views and findings on novel wireless networking and image processing techniques: Wireless Networking, New wireless communications, Resource control & management, Future Access Techniques, Novel digital image processing and analysis techniques, Novel pattern recognition and computer vision techniques etc.

**Topics**

Topics of interest include, but are not limited to, the following scope:

<p><b>– New Networking for 5G&amp;Beyond</b></p> <ul style="list-style-type: none"> <li>⌚ Small cell architecture for 5G &amp; beyond</li> <li>⌚ Super density networking</li> <li>⌚ Network slicing</li> <li>⌚ Cloud based 5G architectures</li> <li>⌚ Cloud-RAN</li> <li>⌚ Mobile cloud computing/Mobile edge computing</li> <li>⌚ Fog computing</li> <li>⌚ Device-to-Device Communications and networking</li> </ul> <p><b>– New wireless communications for 5G</b></p> <ul style="list-style-type: none"> <li>⌚ Millimeter wave communications</li> <li>⌚ Massive MIMO</li> <li>⌚ Novel waveform design</li> <li>⌚ Interference management</li> <li>⌚ Modulation &amp; coding</li> <li>⌚ Green Communications</li> <li>⌚ MAC and duplexing</li> <li>⌚ Adaptive TRX schemes</li> </ul> <p><b>– Resource control &amp; management for 5G</b></p> <ul style="list-style-type: none"> <li>⌚ Spectrum utilization and sharing</li> <li>⌚ Dynamic beam forming techniques</li> <li>⌚ Novel mobility management</li> </ul>	<ul style="list-style-type: none"> <li>⌚ QoE/QoS management over 5G</li> <li>⌚ Dynamic QOS framework</li> <li>⌚ Ultra-reliability and low-latency communications</li> </ul> <p><b>– Future Access Techniques</b></p> <ul style="list-style-type: none"> <li>⌚ Non-orthogonal Multiple Access (NOMA)</li> <li>⌚ Cross-layer design and optimization</li> <li>⌚ Cooperative networking/transmission</li> <li>⌚ Content distribution networks &amp; caching</li> <li>⌚ Coexistence of NOMA and OFDMA</li> <li>⌚ Sparse code multiple access</li> <li>⌚ Cognitive spectrum access</li> </ul> <p><b>- Image processing and Computer Vision</b></p> <ul style="list-style-type: none"> <li>⌚ Digital image processing and analysis</li> <li>⌚ SAR target recognition</li> <li>⌚ Image dehazing</li> <li>⌚ Pattern recognition</li> <li>⌚ Computer vision</li> <li>⌚ Tactile Internet</li> </ul>
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**Important Dates**

- **Manuscript submission deadline: Nov. 30, 2018**
- Notification of acceptance: **Dec. 30, 2018**

- Submission of final revised paper: **Jan. 15, 2019**
- Publication of special issue (tentative): **Feb. 15, 2019**

### **Submission Procedure**

Authors should follow the MONET Journal manuscript format described at the journal site. Manuscripts should be submitted on-line through <http://www.editorialmanager.com/mone/>.

A copy of the manuscript should also be emailed to the Guest Editors at the following email address(es): [yebi@hhu.edu.cn](mailto:yebi@hhu.edu.cn) and [song.guo@polyu.edu.hk](mailto:song.guo@polyu.edu.hk).

### **Guest Editors:**

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Prof. Song Guo, Hong Kong Polytechnic University, Hongkong



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