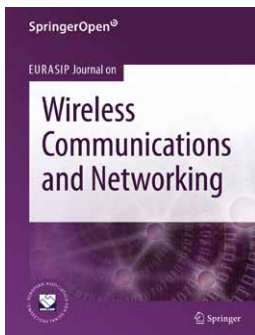


EURASIP Journal on Wireless Communications and Networking

Special Issue on Advanced Technologies for LTE Advanced

**CALL
FOR
PAPERS**

SpringerOpen[®]



As the first release (release 8) of the long-term evolution (LTE) standard was coming to an end, 3GPP has been discussing further evolution of the LTE, which is referred to as LTE Advanced (release 10 and beyond). The LTE Advanced is targeted to fulfill or even surpass all the requirements of IMT-Advanced, which was defined by ITU in 2008. These requirements include peak data rates, peak spectral efficiency, cell spectral efficiency, and scalable bandwidth. In September 2009, the 3GPP partners made a formal submission to the ITU proposing that the LTE Advanced be evaluated as a candidate for IMT-Advanced.

There are a lot of technical challenges for successful standardization of the LTE Advanced that meets the ITU requirements and supports backward compatibility with the LTE. The key features of the LTE Advanced differentiated from the LTE shall include support for wider bandwidth, improved uplink performance, better energy efficiency, advanced multiantenna technology, advanced interference management, and self-organizing network. Accordingly, from the perspective of PHY and MAC layers, multihop relay, multicell MIMO, and carrier aggregation are challenging areas to be explored. Intelligent interference management will also be an important topic. Network aspects to be considered are Het Nets, fem to cell optimization, and self organizing network.

The aim of this special issue is to bring out recent original advances in enabling technologies for the LTE Advanced. Both theoretical and practical papers are solicited on related aspects: algorithms, system design, performance analysis, and experimental studies. The potential topics of interest include, but are not limited to:

- ▶ Co-operative Multipoint (Co MP) transmission and reception
- ▶ Multi hop relay
- ▶ Advanced MIMO techniques
- ▶ Spectrally efficient multiple access
- ▶ Inter cell interference management and interference alignment
- ▶ Carrier aggregation
- ▶ Het Nets (outdoor pi co cells and indoor fem to cells)
- ▶ Femtocell optimization

Submission Schedule

- ▶ **Manuscript Due:**
September 15, 2011
- ▶ **First Round of Reviews:**
December 15, 2011
- ▶ **Publication Date:**
March 1, 2012

Submission Instructions:

Before submission authors should carefully read over the Instructions for Authors, which are located at <http://jwcn.eurasipjournals.com/authors/instructions>. Prospective authors should submit an electronic copy of their complete manuscript through the SpringerOpen submission system at <http://jwcn.eurasipjournals.com/manuscript> according to the submission schedule. They should specify the manuscript as a submission to the “Special Issue on Advanced Technologies for LTE Advanced” in the cover letter. All submissions will undergo initial screening by the Guest Editors for fit to the theme of the Special Issue and prospects for successfully negotiating the review process.

Lead Guest Editor

Oh-Soon Shin, School of Electronic Engineering, Soongsil University, 511 Sangdo-Dong, DongjakGu, Seoul 156743, Republic of Korea, Email ▶ osshin@ssu.ac.kr

Guest Editors

Salah Eddine Elayoubi, Orange Labs, 38 rue du Général Leclerc, Issy les Moulineaux, 92794 Paris, France, Email ▶ salaheddine.elayoubi@orange-ftgroup.com

Y. K. Jeong, Qualcomm Inc., Boulder, CO 80301, USA, Email ▶ yjeong@qualcomm.com

Yoan Shin, School of Electronic Engineering, Soongsil University, Sangdo-dong, Dongjak-gu, Seoul 156743, Republic of Korea, Email ▶ yashin@ssu.ac.kr