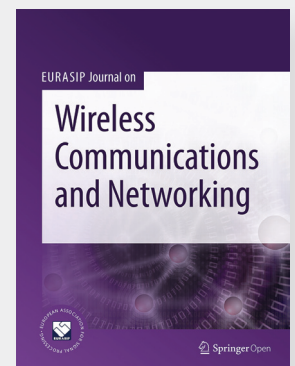


# EURASIP Journal on Wireless Communications and Networking

## Special Issue on System Level Modeling in Future Wireless Communications

System level abstraction is a central tool to model highly complex systems, such as, cellular networks and to efficiently analyze and evaluate the performance of novel technologies as well as developed signal processing algorithms. Furthermore, system level simulations enable the incorporation of realistic and practical constraints/restrictions, which in many cases significantly alter the picture drawn by purely analytic investigations.

This special issue brings together research results on beyond 4G (LTE-A) and 5G contender technologies, which assess the system performance of novel methods based on thorough system level modeling and abstraction. Methods and technologies of interest embrace, but are not restricted to, novel waveform designs, massive random access, heterogeneity in radio access technologies (RATs), robust cooperative designs as well as performance evaluation of massive MIMO and ultra-dense cellular networks. We expect the papers to have a clear problem statement and to explicitly outline the evaluation methodologies employed for system performance assessment.



Call for  
Papers

## Papers are accepted based on their originality and quality of presentation. In particular the following issues should be addressed properly:

- Novel results on the system level performance of beyond 4G and 5G technologies
- Evaluation methodologies for efficient system level modeling and abstraction of beyond 4G and 5G technologies, particularly with respect to new 5G waveforms
- Reliability and latency modeling and definitions for different services
- Invalidity of commonly used assumptions that can significantly affect the system level performance of cellular networks
- Any findings contradicting the conventional wisdom, e.g. due to the consideration of realistic practical constraints in the system level investigation

## Potential topics include, but are not limited to:

- System level modeling and evaluation of novel waveform designs
- Massive random access
- Robust cooperative designs
- Performance evaluation of massive MIMO and ultra-dense cellular networks
- Multi radio access technology network design

## Submission Instructions:

Before submission authors should carefully read over the Instructions for Authors, which are located at [jwcn.eurasipjournals.com/authors/instructions](http://jwcn.eurasipjournals.com/authors/instructions). Prospective authors should submit an electronic copy of their complete manuscript through the SpringerOpen submission system at [jwcn.eurasipjournals.com/manuscript](http://jwcn.eurasipjournals.com/manuscript) according to the submission schedule. They should choose the correct Special Issue in the “sections” box upon submitting. In addition, they should specify the manuscript as a submission to the “Special Issue on System Level Modeling in Future Wireless Communications” 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.

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## Submission Schedule

Manuscripts due:

August 15, 2015