



Guest Editors:

Dr. Mieso Denko

University of Guelph, Canada

Dr. Mesut Güneş
(Corresponding editor)

Freie Universität Berlin, Germany

E-mail: mesut.guenes@fu-berlin.de

Dr. Yan Zhang

Simula Research Laboratory and
University of Oslo, Norway

E-mail: yanzhang@ieee.org

Important Dates:

Manuscript due date:

1 August 2010

Notification of acceptance:

1 November 2010

Submission of final manuscript:

15 December 2010

Tentative publication date:

First Quarter 2011

Submission Guideline:

All manuscripts and any supplementary material should be submitted through Elsevier Editorial System (EES). The authors must select “SI: **Simulation and Testbeds-Denko**” when they reach the “Article Type” step in the submission process. The EES website is located at <http://ees.elsevier.com/jnca/>

CALL FOR PAPERS

Special Issue of Journal of Network and Computer Applications
on

Advances in Simulation, Testbeds, and Application of Integrated Wireless Mesh and Sensor Networks

<http://www.elsevier.com/locate/jnca>

Scope:

The *Future Internet* will be particularly characterized that daily objects and appliances will be networked and communication between anything at anytime is possible. To realize such a networked environment plenty of different kinds of networks have to interact and cooperate. In addition to cellular networks like GSM and UMTS new kinds of wireless networks, e.g., wireless sensor networks (WSN), wireless mesh networks (WMN), and wireless personal area networks (WPAN), will play an important role either as an integrator for locally available networks and services or as the perception organs of the Future Internet. Particularly, heterogeneous wireless networks will be in the focus of this research. This special issue will solicit original research papers that report recent advances in simulation design, experimental testbeds, and novel emerging applications of integrated wireless mesh and sensor networks. Topics of interest include, but are not limited to, the following:

- Simulation models for WSN, WMN, and MANET
- Simulation models for integrated WSN, MANET, and WMN
- Parallel and distributed simulation
- Cross-layer based simulation
- Emulation versus simulation
- Testbeds for WSN, WMNs and MANET
- Testbeds integrating heterogeneous wireless networks
- Validation, verification, and metrics for testbeds
- Benchmarking and comparison of experiments
- Testbed based vs. simulation based experiments
- Interoperability of simulators
- Multimedia applications
- Healthcare applications
- Smart homes and intelligent applications

Submission Format:

The submitted papers must be written in English and describe original research which is not published nor currently under review by other journals or conferences. Author guidelines for preparation of manuscript can be found at www.elsevier.com/locate/jnca. For more information, please contact the Editor-in-Chief, Mohammed Atiquzzaman (atiq@ou.edu)