



Guest Editor:

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Important Dates:

Paper submission:
15 October, 2009
Acceptance notification:
15 January, 2010
Final papers:
15 February, 2010
Publication:
Second Quarter 2010

Submission Guideline:

All manuscripts and any supplementary material should be submitted through Elsevier Editorial System (EES). The authors must select "Special Issue: Wireless Mesh Network" 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 *"Efficient and Robust Security of Wireless Mesh Networks"*

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

Scope:

Wireless Mesh Network (WMN) is an emerging next generation wireless broadband provisioning technology which is gaining significant interest from academia and industry. WMNs have been considered as a city-wide community-based approach to support and ensure high-speed last mile unrestricted ubiquitous broadband access. In spite of many great features in WMNs such as self-organizing, self-healing, easy and cost effective deployment and maintenance, high scalability of services yet a lot needs to be done in terms of efficient and robust security solutions, and reliable access to user. Some of the inherent characteristics of WMN such as large-scale coverage, decentralized and multi-hop architecture, multi-radios, multi-channel assignments, ad hoc connectivity, dynamic topology and support the maximum freedom of users to join or leave the network from anywhere and at anytime has made the situation far more complex. As a result broadband resources are exposed to various kinds of security attacks.

This special issue aims to gather recent advances in the area of security aspect of WMNs. It welcomes survey/review articles that focus on the challenges and the state-of-the-art solutions. The papers will be peer reviewed and will be selected on the basis of their quality and relevance to the topic of this special issue. Topics include, but are not limited to:

- Secure multimedia communication and streaming
- Secure neighbor discovery, localization and mobility
- Security architectures, deployments and solutions
- Denial of service attacks and countermeasures
- Intrusion detection and prevention techniques
- Distributed security and adaptive defense systems
- Confidentiality, integrity, availability, trust establishment and privacy
- Authentication and Access control
- Cryptography, encryption algorithms and Key management schemes
- Experimental validation and experiences with WMN testbed and/or deployment

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 Atiqzaman (atiq@ou.edu)