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Editors-in-Chief: I.F. Akyildiz, H. Rudin

Special issue on

Recent Advances in Physical-Layer Security

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Physical-layer security is emerging as a promising approach for supporting new and existing security services. Aspects of the physical layer have the potential to provide security services that challenges the capabilities of conventional cryptographic mechanisms, such as relay attacks, ad-hoc key establishment and key-less secure communication.

This special issue aims to further scientific research into both theoretical and practical approaches to physical-layer security. It will accept original research papers that report latest results and advances in this area, and will also invite review articles that focus on the state-of-the-art, highlighting trends and challenges. 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. We would particularly like to encourage submissions that present strong experimental and/or practical implementation results. Topics include (but are not limited to):

- **Determining physical proximity of devices (distance-bounding protocols, location limited channels, etc.)**
- **Device fingerprinting based on communication features (frequency/data clock skew/transients, etc.)**
- **Noisy channels ('friendly' jamming) approaches for security**
- **Jamming ('unfriendly') resistance**
- **Secret-key generation and agreement over wireless channels**
- **Cross-layer security mechanisms incorporating cryptography and physical layer aspects for low-resource devices like RFID (efficient schemes, simplified signal processing requirements, etc.)**
- **Experimental results on practical implementations of physical layer security techniques**

Submission Guidelines

All received submissions will be sent out for peer review by three experts in the field and will be evaluated with respect to the relevance to this special issue, level of innovation, depth of contribution, and quality of presentation. The Guest Editors will make an initial determination of the suitability and scope for all submissions. Papers that either lack originality or clarity in presentation will not be sent for review and the authors will be promptly informed in such cases. Submitted papers must not be under consideration by other journals, publications or conferences.

Authors should follow the Computer Networks manuscript format described below at the journal site: http://www.elsevier.com/journals/computer-networks/1389-1286/guide-for-authors. The submission must be clearly written and in excellent English, with a maximum page limit of 20 pages. If an earlier version of the paper was published in a conference, the submitted manuscript must be a substantial extension of the conference paper. In this case, authors are also required to submit their published conference articles and a summary document explaining the enhancements made in the journal version.

Manuscripts should be submitted on line through http://ees.elsevier.com/comnet/ and "Physical Layer Security" selected as the article type.

Important Dates	***Guest Editors***
Paper Submission Due: October 15, 2015	**Gerhard Hancke**, City University of Hong Kong, Hong Kong, Email: gp.hancke@cityu.edu.hk (Lead Guest Editor)
First Round Notification: January 15, 2016	**Aikaterini Mitrokotsa**, Chalmers University of Technology, Sweden, Email: aikmitr@chalmers.se
Revised Paper Submission Due: February 15, 2016	**Reihaneh Safavi-Naini**, University of Calgary, Canada, Email: rei@ucalgary.ca
Second Round Notification: April 15, 2016	**Damien Sauveron**, XLIM (UMR CNRS 7252), University of Limoges, France, Email: damien.sauveron@unilim.fr
Tentative Publication Date: 3rd Quarter, 2016	