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SPECIAL ISSUE ON
Physical Layer Security and Wireless Access Control

Overview:

Wireless networks have become a predominant means of communication. However, the problem of unauthorized access to wireless network has become increasingly severe. Physical-layer security is emerging as a promising approach for supporting new and existing security services. Using properties of physical-layer communication channels in security mechanisms can potentially enhance conventional security services and assist in mitigating threats that challenge the capabilities of conventional cryptographic mechanisms, such as spoofing attack, relay attacks, ad-hoc key establishment and key-less secure communication. However, significant challenges, including security evaluation and guarantees, remain to be solved to realize practical physical-layer security mechanisms.

The aim of this Special Issue is to publish the state-of-the-art research results demonstrating both theoretical and practical approaches to physical-layer security. We particularly feature works that demonstrate strong experimental and/or practical implementation results, which will move this research area towards practical adoption in real systems. Original submissions, not under any concurrent reviews, are solicited in all areas related to advances on applications, methods, and approaches envisioning to address the Physical Layer Security and Wireless Access Control.

Topics

Topics of interest include, but are not limited to, the following scope:

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| <ul style="list-style-type: none">- Applications, methods, and approaches on Physical Layer Information- Wireless security, smartphone privacy, location-based system security and privacy- Mobile Computing & Sensing- Wireless Indoor Localization- Physical Layer Security: user authentication and access control- Advanced signal processing for physical layer security- Hardware fingerprint based security | <ul style="list-style-type: none">- Cross-Layer Design, Optimization and Implementation: spectrum/energy efficiency- New Applications and Communication Technologies: IoTs, cloud, smart grid, and SDN- Heterogeneous Network Security and Access Control- Experimental results on practical implementations of physical layer security techniques |
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Important Dates

- **Manuscript submission deadline: Dec 31, 2017**
- Notification of acceptance: **Mar 31, 2018**
- Submission of final revised paper: **May 31, 2018**

- Publication of special issue (tentative): **Aug 31, 2018**

Submission Procedure

Authors should follow the MONET Journal manuscript format described at the journal site. Manuscripts should be submitted on-line through <http://www.editorialmanager.com/mone/>. A copy of the manuscript should also be emailed to the Guest Editors at the following email address(es) lei.wang@ieee.org. When submitting papers, authors should choose article type as “**Physical Layer Security and Wireless Access Control (QShine 2017)**”. Authors need to register to submit their papers. The "Subject field" of the email must contain "MONET QShine 2017 Paper -". Authors whose selected papers have been accepted and presented at the QShine 2017 (<http://qshine.org/2017/show/home>) are invited to submit an extended and revised version of their papers to this special issue. The papers must have at least 30% new material compared to the conference paper.

Guest Editors:

Lei Wang, Dalian University of Technology

Yang Peng, University of Washington, Bothell

Lei Shu, Guangdong University of Petrochemical Technology, China

Panlong Yang, University of Science and Technology of China

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