

Call for paper

Workshop on deployment perspectives of Physical Layer Security into wireless public RATs

In conjunction with the 27th Annual IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)

Sunday, September 4th, 2016

Valencia Congress Centre, Valencia, SPAIN

This workshop is supported by the Phylaws project (FP7-ICT-2011-8; Id 317562)

Description:

Taking into account the necessity to strengthen the security of the radio access of cellular networks, MIMO and Massive MIMO, WLANs, machine type radio-communications and Internet of Thing, to keep resilience when facing advanced passive and active attackers (passive, deny, replay, man in the middle, etc. which may have prior knowledge about victim network, user equipment or subscriber), this full-day workshop will receive an exceptional panel, bringing together academic and industrial researchers and members of standardization bodies. The workshop will present keynote speakers and exhibit theoretical, experimental and poster presentations on the Physical layer Security. During the day, networking will be organized as well as interactive discussions on deployment, regulatory and legal implications of key-free secure schemes based on Physical Layer Security.

Scope and Topics of Interest:

To ensure the complete coverage of the advances in Physical layer Security for wireless communications, the Workshop organization committee cordially invites original contributions in, but not limited to, the following areas:

- Security weaknesses of 2/3/4G and WLAN.
- Security threats and countermeasures for 5G and IoT.
- Radio propagation: estimation, equalization and extraction of randomness
- Perspectives of MIMO and multi-antenna communications for secure wireless communications
- Perspectives of Full Duplex RATS and Interference cancellation techniques for secure wireless communications
- Secret Key Generation

- Secrecy Coding
- Key-free Secure pairing and Authentication schemes, Identification Friend or Foe
- Key-free Secure schemes for machine type radio communications
- Key-free Secure schemes for mobile communications
- Regulator implications of new secure schemes at Physical Layer of wireless networks
- Legal / lawful implications of secure schemes at Physical Layer of wireless networks

Accepted papers will lead to presentation during the workshop.

General Chairs:

François Delaveau, Thales Communications and Security, France.

Committee Members:

Christiane Kameni, Thales Communications and Security, France.

Adrian Kotelba, VTT, Finland.

Cong Ling, Imperial College of London, United Kingdom

Alain Sibille, Telecom Paris Tech, France.

Important dates:

Paper submission deadline: April 29th, 2016

Notification of acceptance: June 10th, 2016

Final paper submission deadline: July 1st, 2016

Paper Submission Guidelines:

The workshop accepts novel and previously unpublished papers. All submissions should be written in English with a maximum paper length of Six (6) printed pages (10-point font) including figures without incurring additional page charges (maximum 1 additional page with over length page charge if accepted). Submitted papers will be subject to a peer-review process. All accepted papers will be included in the PIMRC conference program and will be published by the IEEE Xplore. Papers should be submitted through EDAS.

More information:

See <http://www.ieee-pimrc.org/workshops.html> and <https://edas.info/newPaper.php?c=22446>

See <http://www.phylaws-ict.org/> and http://www.phylaws-ict.org/?page_id=21