A new Demo experience

14TH EAI INTERNATIONAL CONFERENCE ON COGNITIVE RADIO ORIENTED WIRELESS NETWORKS (June 11-13, 2019 | Poznan, Poland) invites demo proposals that address innovative and important topics related to cognitive radio systems.

Share your innovation idea, get instant feedback from an expert audience, and transform your research project into a business idea, showcasing your demo to an audience beyond the Summit!

Submission Instructions

In order to be considered for on-site demonstration at CROWNCOM 2019, a PDF containing a 2-page abstract describing the demo should be submitted via confy, in accordance with Springer LNICST guidelines (http://crowncom.org/authors-kit/).

Submission deadline: February 18, 2019

Demo submissions should describe the technology that will be showcased as well as the reasoning behind it. You may find the full list of topics in the Topics section below. The demo abstracts will be included in the CROWNCOM 2019 proceedings, but will not be indexed in SpringerLink Digital Library.

Authors willing to have the demo published in SpringerLink Digital Library should submit the demo description as a regular paper with the submission deadline of **January 29, 2019**.

Topics

- Machine learning algorithms and solutions for 5G and beyond
- Usage of Context Information in future wireless system
- Spectrum and resource virtualization
- Spectrum, infrastructure and resource management in future wireless networks
- New applications of cognitive radio based technologies in future wireless networks
- Deep learning and data mining in wireless networks
- Spectrum sharing and cognitive networks, including DSA, LSA, LAA, CBRS-SAS
- Coexistence in unlicensed bands (including offload mechanisms)
- Cognitive Radio Related Standards and initiatives
- Spectrum efficiency optimisation at any layer level perspective (at PHY, MAC, networking and application level)
- Radio resource slicing and radio virtualization techniques
- Spectrum for digital inclusion
- Application of cognitive radio and sharing for the IoT
- Cognitive radio technology for V2V and V2X applications
- Sharing and coexistence in mmWave bands and satellite communications
- Experimental results on spectrum efficiency of end-to-end wireless systems and trials

- Spectrum sharing and security
- Business aspects and new opportunities related to spectrum sharing models and deployments
- Fundamentals of cognitive radio, e.g., advances in spectrum sensing, dynamic spectrum access
- RAN Slicing
- Heterogeneous network coexistence
- Spectrum usage in high frequency bands (mmWave, VLC, THz)
- Backhauling aspects in future networks

Publication

The demo abstracts will be included in the CROWNCOM 2019 proceedings, but will not be indexed in SpringerLink Digital Library.

Selection

Submissions will be evaluated and selected based on their quality, originality, and significance to the areas of interest for CROWNCOM 2019. Submissions outside of the conference's Scope should justify their relevance to the main area of interest.

The EAI CROWNCOM 2019 Demonstration Committee will evaluate the proposals based on the four criteria:

- technical significance: how important and novel is the demonstration to the community,
- originality: how the work offers unique and substantial contribution beyond what has already been published or submitted,
- demonstration maturity: the demonstration must be mature enough "to leave the lab"
- demonstration supportability: how the intended demonstration will fit to the EAI CROWNCOM program, and will it be possible to conduct such demonstration given regulatory and physical constraints. Demonstrations involving RF transmissions must include a priori or in situ risk mitigation measures to ensure regulatory compliance and coexistence with other spectrum users.

Confidentiality of submissions is maintained during the review process. Authors name and affiliation must be on the paper. All rejected submissions will be kept confidential in perpetuity. All submitted materials for accepted submissions will be kept confidential until the start of the conference. Submissions will be evaluated based on their originality, significance of the contribution to the field, technical correctness and presentation, as well as the potential to include participation by conference attendees. The submission should make explicit.

Presentation

Accepted and registered Demos will be showcased at the venue open to the conference participants. Authors will need to be available for installation, and for facilitating interaction with their work at scheduled times during the conference.

Attendance

At least one author of an accepted Demo must register at full demo rate and present the demo at the conference venue. Specific requirements will be arranged with presenters of accepted demos, however, demos should be self-supporting as the organizers will only be able to provide space, electricity and an internet connection. It is also the responsibility of each demonstration participant to secure shipping and handling of their equipment to and from the demonstration site.

Questions

If you have questions about the CROWNCOM 2019, please contact the please contact the Demo Chair: Pawel Sroka at pawel.sroka@put.poznan.pl