SCOPE

With the developments and applications of wireless communications, more and more applications require advanced radio transmission technologies (RTT) to reach the goal of high power and spectrum efficiencies as well as flexibility and adaptation to multiple scenarios such as mobile broadband, ultra reliable communications, the internet of things, etc.

Recently, intelligent optimization and self-learning algorithms have been widely studied as potential solutions. Among the latter, the very promising evolution algorithms aim to find the optimal operating point of complex non-continuous cost functions using biologically inspired techniques such as genetic algorithms and particle swarm optimization.

Self-learning algorithms are lighted up with the success of machine learning in the artificial intelligence field. Given the strong requirements expected from RTT and the fruitful achievements in evolution and self-learning algorithms (ESLA), it is foreseen that applying ESA to RTT may solve some of the most daunting challenges in wireless communications.

TOPICS

This workshop will provide a forum for both industry and academia to exchange views and visions. Topics of interest include but are not limited to the following:

- Channel coding and decoding with ESA
- Channel estimation and tracking with ESA
- Massive MIMO with ESA
- Overview of intelligent optimization
- Overview of machine-learning algorithms
- Position/location estimation with ESA
- Power control with ESA
- Radio resource management with ESA
- Signal detection with ESA

EDAS submission link: https://edas.info/N23914

Accepted and presented papers will be published in the IEEE PIMRC 2017 Conference Proceedings and submitted for inclusion in IEEEXplore®.

IMPORTANT DATES

Review paper submission: 04 August 2017
Notification of acceptance: 18 August 2017
Camera-ready submission: 25 August 2017

WORKSHOP WS-10 CO-CHAIRS

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MORE INFO

E-mail: workshop.ws-10.co-chairs@pimrc2017.org
Workshops webpage: http://pimrc2017.ieee-pimrc.org/authors/call-for-workshop-papers/