



## Special Session:

### ***Machine Learning for Communication Networks***

The Special Session will be part of the 14th International Symposium on Wireless Communication Systems (ISWCS 2017), technically co-sponsored by the IEEE Communications Society (ComSoc), to be held in Bologna, Italy, on August 28-31, 2017. Paper submissions are invited on the Special Session topic.

**Special Session papers will be reviewed by the TPC of ISWCS 2017; they will be part of the Conference Proceedings, and they will be uploaded to IEEE Xplore.**

## Call for Papers

### *Special Session Motivation and Background*

*Machine Learning allows devices to learn from data so as to improve the strategy for the future actions, in either continuous (regression) or discrete (classification) mode. Recently, Machine Learning has evolved into one of the most active research fields due to its impressive success in a wide range of domains (such as image processing, robotics, medical diagnosis, finance, and many more) where it has often revolutionized the state of the art. Yet, its impact on communication networks has so far been very limited despite a wide array of anticipated application scenarios, from PHY layer optimization, to the optimization of flying access networks to predictive resource allocation and automated network orchestration, to name just a few examples. Such problems will form the core of this Special Session, helping us to understand how Machine Learning will impact (for the better) future communication networks.*

*Submissions presenting the most recent progresses related to the use, the analysis, or the optimization of Machine Learning algorithms into any aspect of future communication networks are encouraged.*

**Special Session Organizers: Paul de Kerret (EURECOM) and David Gesbert (EURECOM)**

## Submission Guidelines

Prospective authors are invited to submit high-quality technical papers (max 6 pages) using standard IEEE conference templates that can be downloaded from the link <http://iswcs2017.org/call-for-papers/>. The proposal should be submitted by the deadline, via the EDAS link: <https://edas.info/newPaper.php?c=23468&track=85444>

## Key Dates

- Paper submission: Thursday, May 4, 2017
- Acceptance notification: Friday, June 16, 2017

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