

Call for papers

1st workshop on

Machine Learning for Optical Communications (MALOC)

In conjunction with ICTON

21th International Conference on Transparent Optical Networks

Angers, France, July 9th-13th, 2019

<http://www.icton2019.com>

Technically (co-)sponsored by the IEEE

Scope of the workshop

Machine learning is a useful tool in communications engineering and may help with tasks such as performance monitoring, resource optimization and physical layer design.

This workshop will bring together researchers from the fields of optical communication, networks and communication theory to identify and address areas where machine learning could be applied to help design next-generation communication networks. The objective is to identify a set of new and important use cases where machine learning offers unique value in improving communication systems or networks. The focus is on optical communications, however contributions from all areas of communications are welcome.

This workshop has been organized also in collaboration with the European Union's Horizon 2020 research and innovation program under the Marie Skłodowska-Curie EIDs REAL-NET an FONTE, grant agreements 813114 and 766115.

Topics of interest are Machine Learning applications for:

- digital signal processing and compensation of channel impairments
- physical layer design
- error-correction code design
- physical layer monitoring
- system programmability
- control loops at the system and subsystem levels

Technical Program Committee

- Mansoor Yousefi (Telecom ParisTech, France)
- Luis Velasco (Universitat Politècnica de Catalunya, Spain)
- Sergei Turitsyn (Aston University, UK)
- Antonio Napoli (Infinera, Germany)
- Danish Rafique (ADVA, Germany)
- Marc Ruiz (Universitat Politècnica de Catalunya, Spain)

Paper submission

The authors should follow instructions for paper submission at ICTON webpage <http://www.icton2019.com>. The authors should submit maximum 4-page papers, include both the PDF and MS Word source files, and mention MALOC in the subject line. Accepted papers will be included in the ICTON 2019 Proceedings and published at the IEEE.

Important dates

Submission deadline: March 31st, 2019

Notification of acceptance: April, 30th 2019

Post-deadline papers with recent results are solicited by June 1, 2019.