

## **CALL FOR PAPERS**

**IEEE Workshop on Machine Learning and Optimization for Communications Networks (MaLeN-2020)**

**to be held as part of the 27th IEEE Conference of Open Innovations Association FRUCT**

**Trento, Italy**

**September 7-9, 2020**

**URL: <https://fruct.org/cfp27>**

Next-generation computing and networking technologies will allow a wide range of innovative services enabled by means of new high-performance wired and wireless communication networks. These will entail complicated planning, design and management problems that, to be effectively and efficiently solved, will require the development of novel machine learning and mathematical optimization approaches, or the adaptation of existing algorithms to these new problems.

The workshop will focus on the use of machine learning and optimization algorithms (such as exact algorithms, heuristics, or metaheuristics) for planning, design, and management problems associated with computing and networking. We encourage both theoretical and applied contributions.

The areas of interest include, but are not limited to:

- 5G technologies
- Unmanned Aerial Vehicle (UAV) Systems and Networks
- Sensor Networks
- Ad hoc, Mesh and Wireless Networks
- Cloud and Fog Computing
- Network Virtualization
- Internet of Things and Social Web of Things
- Social Computing and Networking
- Vehicular Communications
- Smart Grids
- High data rate and millimeter-wave communications
- Ultra-Reliable Low Latency Communications (URLLC)
- Implementation of Social IoT for Smart Building
- Network planning, capacity analysis, and topology control
- Signal Processing for Communications
- Mobile Edge Computing and Caching
- Cross-layer optimization
- Massive Wireless Access
- Internet Services and Applications