Call for papers

1st workshop on

Multi-band Open Optical Networks (MOON)

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

5G access and cloud computing are expected to drive a dramatic increase in IP traffic over the next years. Contrary to access, backbone networks are already carrying massive amount of data and it will be required to push their capacity even further. Telecom operators aim at exploiting the existing infrastructure to maximize their returns on CAPEX. Consequently, the favored solution is moving-on in exploiting the available bandwidths beyond the C-band, rather than deploying novel optical networks based on multi-core/-mode fibers. The starting point will coincide with the upgrade to L-band systems – for data transport and opening-up network controlling and management down to layer-0. Furthermore, the market is shifting towards multi-vendor interoperability networks, and as consequence several vendor-agnostic initiatives are currently in progress. The Telecom Infra Project (TIP) and the Open ROADM are just two examples.

This workshop has been organized also in collaboration with the European Union's Horizon 2020 research and innovation program under the Marie Skłodowska-Curie ETN WON, grant agreements 814276, and with the Telecom Infra Project (TIP).

The MOON workshop aims at being a window for these topics, addressing the following investigation fields:

- Data transport abstraction through quality of transmission estimation (QoT-E) by modeling and simulating multi-band open optical transmission, also in presence of legacy channels and non-data services
    - Multi-band transmission modeling
    - Multi-band simulation
    - System design issues
    - Open application programming interface (API) for QoT-E
    - Open data structures
- Telemetry and failure recovery, including machine-learning-aided (ML-A) solutions

- Physical-layer-aware network orchestration
- Network / control planning, including ML-A solutions

MOON Technical Program Committee

Chair: Vittorio Curri (Politecnico di Torino)
Co-chair: Antonio Napoli (Infinera, Munich), Victor Lopez (Telefonica)
Mark Filer (Microsoft)
Mattia Cantono (Google)
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Wladek Forysiak (Aston Institute of Technology)
Robert Killey (UCL, London)
Johannes Fischer (Fraunhofer Institut Berlin)

Paper submission

According to ICTON submission rules at http://www.icton2019.com (4 pages in electronic form, MS Word version accompanied by a PDF version), please write MOON in the subject line when submitting your contribution. All accepted MOON papers will be included in ICTON 2019 Proceedings (published on IEEEXplore).

Important dates

Submission deadline:	March 31st, 2019
Notification of acceptance:	April, 30th 2019

Post-deadline papers with very recent results are requested by June 1, 2019