Call for Paper
2nd workshop on
Softwarization and Virtualization of Optical Access Networks (OptSoft)
In conjunction with ICTON
23rd International Conference on Transparent Optical Networks,
Bucharest, Romania, July 2-6, 2023
http://icton2023.upb.ro/
http://icton2023.upb.ro/call-for-papers/
Technically (co-)sponsored by the IEEE

Scope of workshop: In evolution of telecommunication networks toward 5G and B5G technologies, optical networks include some unique features such as high-capacity, low-latency and low cost, demonstrate itself as a potential option for backhauling and accessing solutions. To maximize the benefits of the optical networks, besides all other challenges, it's important to address two main issues, namely softwarization and virtualization. Software Defined Networking-SDN and Network Function Virtualization-NFV technologies, are the main enablers for opening the way for an efficient operation and management of networks. They pave the way for an improved management of the resource usage, bandwidth allocation, Quality of Service (QoS) monitoring and enforcement, and power consumption.

The aim of this workshop is to present recent research results targeting the softwarization of the optical communication systems to improve flexibility and efficiency of network operations aligned with 5G networks. Authors are solicited to contribute to the workshop by submitting articles that illustrate research results, projects, surveying works and industrial experiences that describes significant advances in the following areas, but are not limited to:

- Architecture, Protocols and Algorithms in-line with softwarized/virtualized Optical Networks;
- SDN in Open Optical Networks;
- Optical Network Virtualization Techniques;
- Virtualized and Softwarized Optical Network in Cloud Computing and Data-Center;
- Integrated SDN-NFV architecture for Optical Networks;
- Energy-aware SDN/NFV-based architecture in 5G/B5G use cases;
- Optical Networks Virtualization and Slicing in the 5G/B5G era;
- Dynamic Resource Provisioning;
- Innovative Service and Application;

- Spectrally-spatially flexible optical networks – Technology and Optimization;
- P4-based SDN architecture for PONs;
- Advanced Optical Elements for 5G/B5G Communications;
- Management and Orchestration of Optical Networks;
- High Availability and Reliability Techniques.
- Operators and Enterprise-based Environments;

Technical Program Committee:

Chair: Hamzeh Khalili, CTTC, Spain
Members: Fatemehsadat Tabatabaeimehr, CTTC, Spain
                David Rincon Rivera, Universitat Politecnica de Catalunya, Spain
                Josep Sole Pareta, Universitat Politecnica de Catalunya, Spain
                Behnam Shariati, Fraunhofer Heinrich Hertz Institute HHI, Germany

Paper submission: according to ICTON submission rules at here (4 pages in electronic form, MS Word version accompanied by a PDF version), please write OptSoft in the subject line when submitting your contribution. All accepted OptSoft papers will be included in ICTON 2020 Proceedings (published on IEEE Xplore).

Important dates: Submission deadline: 31 March 2023
                    Notification of acceptance: 30 April 2023
                    Post-deadline papers with hot results can be submitted by 1 June 2023