Call for Paper

1st workshop on

Enabling technologies toward 6G Networks (TECHto6G)

In conjunction with ICTON

23rd International Conference on Transparent Optical Networks,

Bucharest, Romania, July 2-6, 2023

http://icton2023.upb.ro/

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Technically (co-)sponsored by the IEEE

Scope of workshop: 6G is the next generation of wireless technology, providing higher capacity and lower latency than its predecessor, 5G. It is a critical component of the future digital society, working in conjunction with IoT, AI, and edge computing. To keep pace with our increasingly interconnected world, we must create a unified and open communication and computing architecture that addresses challenges like ultra-low latency, high data rates, extreme mobility, energy efficiency, and sustainability. With continuous innovation and improvement, 6G will enable new applications and services that will revolutionize our lives.

The aim of this workshop is to bring together experts from academia and industry to explore the potential of 6G technology and its impact on the future digital society. Through presentations, discussions, and collaboration, we hope to identify key challenges and opportunities related to 6G and develop strategies to address them. The ultimate goal is to promote innovation and advancement in the field of 6G technology and create a world where everyone has access to fast, reliable, and sustainable connectivity. 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:

- 6G architecture beyond the current service-based architecture capacities.
- Challenge and opportunities in the deployment of 6G networks.
- Emerging Cloud-Native Vertical and Network Applications.
- Distributed computing architectures for deep edge-edge-cloud hierarchy.
- Network management and orchestration in 6G.
- Cross-domain service orchestrator (CDSO) and network slicing.
- Control and planning of optical networks.
- Network Virtualization and Distributed Computing Architectures for 6G
- Software-Defined Networking and in-network compute capacity.
- Computation offloading on edge-to-cloud hierarchy.
- Training data models and tools for distributed AI/ML telecommunications.
- Power consumption models of edge computing and networks.

- Native integration of AI for telecommunications.
- 6G testbeds and applications.

Technical Program Committee:

Chair:	Hamzeh Khalili, CTTC, Spain
Co-Chair:	Josep Mangues-Bafalluy, CTTC, Spain
Members:	Rasoul Nikbakht, CTTC, Spain
	David Rincon Rivera, Universitat Politecnica de Catalunya, Spain
	Sarang Kahvazadeh, CTTC, Spain

Paper submission: according to ICTON submission rules at here (4 pages in electronic form, MS Word version accompanied by a PDF version), please write TECHto6G in the subject line when submitting your contribution. All accepted TECHto6G papers will be included in ICTON 2023 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