

10th Workshop on 6G Network Operation (6GNeO)

Overview

It is a pleasure to announce the **10th Workshop on 6G Network Operation (6GNeO)**, formerly NeO, BigNeO, B5GNeO), collocated with the 25th International Conference on Transparent Optical Networks (**ICTON 2025**), which will be hosted in **Barcelona**, Spain, from July 6th to 10th, 2025. We are happy to celebrate the 10th Anniversary of this workshop in Barcelona and specially, at Universitat Politècnica de Catalunya. To celebrate the special occasion, we will present a brief retrospective of the workshop, aiming at illustrating the evolution of the workshop topics and contributions along the years.

The 6GNeO Workshop is open to receive **invited and regular contributions** covering a wide range of research and innovation topics on the secure and intelligent operation of complex 6G networks and systems involving multiple domains and technologies.

Scope

Topics and technologies within the scope of 6GNeO are (not restricted to):

- E2e packet-optical network optimization and operation
- Multi-domain and multi-segment network operation
- Programmable networks for supporting 6G services
- Intelligent control of e2e connectivity services
- AI/ML methods and models for intelligent operation of optical systems and devices
- Digital Twinning for optical and/or packet networks
- Multi-agent systems for near-real time control
- Enhanced security of packet-optical networks
- Secure AI methods for operator network use cases
- Planning and operation of deterministic networks

Chairs

Marc Ruiz, Ph. D. – Universitat Politècnica de Catalunya

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