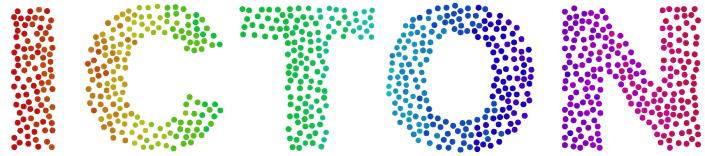


ICTON 2026

Call for Contributions



**26th International Conference on
Transparent Optical Networks ICTON 2026**

and

16th Sub-Wavelength Photonics Conference (SWP)

and

6th Conference on Advanced Fibre Lasers and Coherent Sources (AFLaser)

Prague, Czech Republic, July 12-16, 2026

Co-located with:

- 23rd European Symposium on Photonic Crystals (**ESPC**)
- 23rd Workshop on All-Optical Routing (**WAOR**)
- 21st Global Optical & Wireless Networking Seminar (**GOWN**)
- 20th Anniversary Optical Wireless Workshop (**OWW**)
- 20th Anniversary Photonic Integrated Components & Applications Workshop (**PICAW**)
- 20th Anniversary Reliability Issues in Next Generation Optical Networks Workshop (**RONEXT**)
- 19th Nanophotonics for All-Optical Networking Workshop (**NAON**)
- 19th Workshop on Photonic Microresonators and Resonant Devices (**PMRD**)
- 19th Special Session on **Novel Glasses** for photonic devices
- 16th Workshop on **Broadband Access and Edge Networking**
- 15th Anniversary Workshop on Communication in Transportation Systems (**CTS**)
- 14th Workshop on Green Optical Communications (**GOC**)
- 14th Special Session on Microwave Photonics (**MWP**)
- 11th Workshop on 6G Network Operation (**6GNeO**)
- 10th Anniversary Workshop on Technology for Data Center Interconnects (**DACINT**)
- 10th Anniversary Workshop on Data Center Networks (**DCN**)
- 10th Anniversary Workshop on 5G Transport Networks (**5GT**)
- 9th Workshop on Fiber-Wireless Network Technologies and Architectures towards 5G and Beyond (**FiWi5G**)
- 9th Workshop on Quantum Photonics (**QPhot**)
- 9th Workshop on Multi-Layer Network Orchestration (**NetOrch**)
- 8th Workshop on Novel Optical Amplifiers (**NOA**)
- 8th Workshop on Super-Resolution Imaging and Sensing (**SRIS**)
- 8th Workshop on High Capacity SDM-WDM Optical Networking (**SDM-WDM**)
- 8th Workshop on Flexible and High-Capacity Optical Networks (**Flex-ON**)
- 7th Workshop on Optical Microscopy Techniques (**OMT**)
- 6th Workshop on Integration of Optical and Satellite Communication Systems into 5G Edge Networks (**OSCto5G**)
- 6th Workshop on Quantum Communications (**QC**)
- 6th Workshop on Multi-band Open Optical Networks (**MOON**)
- 6th Workshop on Machine Learning for Optical Communications (**MALOC**)
- 6th Workshop on THz Photonics (**THzPho**)

- 5th Anniversary Workshop on Progress in Nonlinear Photonics and Applications (**PNPA**)
- 5th Anniversary Workshop on Innovative Photonic Technologies for the Future High Capacity Metro Network (**PhotoMAN**)
- 5th Anniversary Workshop on SDN-NFV Challenges and Solutions (**SDN-NFV**)
- 5th Anniversary Workshop on Softwarization and Virtualization of Optical Access Networks (**OptSoft**)
- 5th Anniversary Workshop on Microstructured Optical Fibers (**MOF**)
- 4th Special Session on Space-Division Multiplexing for High-Capacity Transmission (**SDM**)
- 4th Workshop ‘Women in telecommunication and optical networks: Highlighting diverse voices in optical networks’ (**WeInTel**)
- 4th Workshop on Enabling technologies toward 6G Networks (**TECHto6G**)
- 3rd Special Session on Novel Optical Fiber Sensing Techniques (**NOFSeT**)
- 3rd Special Session on **Aerospace Photonics**
- 3rd **ICTON Demo Zone**
- 2nd Workshop on **Photonic Metasurfaces**
- 2nd Workshop on Trustworthiness and Physical Layer Security (**TPLS**)
- 2nd Workshop on **Programmable Photonics and their Applications**
- Workshop on Laser Technologies for Smart Manufacturing, Space and Bio-Tech Applications (**LasApp**)
- **NEW! EWOC final conference on optical-wireless convergence for future 6G networks**
- **NEW! Workshop on Optical Fibre Sensing of Critical Infrastructures**

The National Institute of Telecommunications, Optical Communications Group in Warsaw, Poland, together with the Institute of Photonics and Electronics, Czech Academy of Sciences, and the IEEE Photonics Society Poland Chapter are pleased to announce the **26th International Conference on Transparent Optical Networks ICTON 2026 in Prague, Czech Republic, July 12-16, 2026**. Technical co-sponsorship by the IEEE Photonics Society is foreseen.

Being the capital of Czech Republic, [Prague](#) is filled with historical sites and cultural events. Prague is one of the most attractive cities in Europe, with a number of interesting sites to visit. Prague is easily reachable by plane, [Václav Havel Airport Prague](#) is just around the corner!

ICTON 2026 will be held as an in-person-only meeting.

The scope of the Conference and co-located events is focused on the applications of transparent and all-optical technologies in telecommunications, computing, sensing, imaging, and quantum applications. Conference topics include but are not limited to:

- | | |
|--|--|
| • Photonics, Nanophotonics | • Quantum photonics |
| • Molecular photonics, Biophotonics | • Quantum communications |
| • Nonlinear optics | • VCSELs and other novel light sources |
| • Digital all-optical networks | • Fibre lasers |
| • Ultra-dense wavelength-division multiplexing | • High power lasers |
| • Ultra-fast optical time domain multiplexing | • Novel glasses and photonic materials |
| • Next generation networking | • New transmission windows |
| • Optical switching and routing | • Polarisation Mode Dispersion |
| • Optical packet networks and services | • Photonic component integration |
| • Optical memories and data storage | • Network planning and design tools |
| • Optical transparency and network scalability | • Big data analytics and network optimization |
| • Network reliability and availability | • Non-conventional optical communications |
| • Wireless and optical convergence | • Sub-wavelength photonic devices |
| • Free-space optical communications | • Communication in transportation systems |
| | • Optical microscopy and nanoscopy techniques and applications |

- Radio-over-Fibre transmission
- Broadband metro and access networks
- Microwave Photonics
- Terahertz Photonics
- Photonic band-gap structures
- Photonic crystal fibres
- Optical sensing, Fibre sensing
- Nonlinear and active PBG devices
- Nanoscale and ultrafast photonics
- Photonic microresonators
- Optical inspection of transparent samples: quantitative phase imaging
- 3D optical imaging and display
- Polarization-resolved optical microscopy
- Image processing
- Space communications
- Label-free super-resolution and sensing
- 5G to 6G communications
- Merging of optical and microwave technologies
- Programmable photonics
- Other relevant topics

Authors are cordially invited to submit their contributions preferably in the [traditional ICTON style](#), or alternatively in the [standard IEEE conference style](#) (recommended length four A4 pages in editable MS Word or LaTeX file accompanied by a PDF version) for Regular and Poster Sessions to marian.marciniak@ieee.org by **March 31, 2026**.

The authors will be notified on the acceptance by **April 30, 2026**. **Post-deadline papers** with hot results may be submitted till **June 1, 2026**.

The full **camera-ready IEEE-Xplore compliant papers** will be requested also by **June 1, 2026**.

Students, PhD students and young scientists are especially encouraged to contribute and/or to participate.

We are looking forward to offer a warm welcome to all of you for the 26th Edition of the ICTON Conference, this time in the exciting city of Prague. Traditionally, an ambitious technical programme will be accompanied by an attractive selection of social events!

Pavel Peterka (General Chair)

Jiří Čtyroký (Honorary Chair)

Trevor Benson (ICTON Scientific Committee Honorary Chairman)

Michał Murawski (IEEE Photonics Society Poland Chapter Chairman)

Crina Cojocaru (Student Participation Chair)

Marian Marciniak (ICTON Originator)