ICTON 2027

27th International Conference on Transparent Optical Networks

17th Sub-Wavelength Photonics Conference (SWP)

7th Conference on Advanced Fibre Lasers and Coherent Sources (AFLaser)

ISCHIA ISLAND, NAPLES, ITALY

4–8 JULY 2027

IEEE

CALL FOR CONTRIBUTIONS

ORGANIZERS

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ICTON Originator

Marian Marciniak

IMPORTANT DATES

31 March 2027
Paper Submission

20 April 2027
Acceptance Notification

1 June 2027
Full camera-ready IEEE-Xplore compliant PDF file submission

PAPER SUBMISSION

Regular and poster contributions: recommended length 4 A4 pages. IEEE conference style preferred; traditional ICTON style accepted. Submit editable Word or LaTeX files with a PDF to icton@itl.waw.pl.



PHOTONICS & ALL-OPTICAL TECHNOLOGIES

The scope of the Conference ICTON2027 and co-located events is focused on the applications of transparent and all-optical technologies in telecommunications, computing, sensing, imaging, and quantum applications.

WORKSHOPS

All the workshops co-located with ICTON 2027 are listed in ICTON 2027 - Instytut Łączności - Portal Gov.pl

CONFERENCE TOPICS

Photonics, Nanophotonics
Molecular photonics, Biophotonics
Nonlinear optics
Digital all-optical networks
Ultra-dense wavelength-division multiplexing
Ultra-fast optical time domain multiplexing
Next generation networking
Optical switching and routing
Optical packet networks and services
Optical memories and data storage
Optical transparency and network scalability
Network reliability and availability
Free-space optical communications
Radio-over-Fibre transmission
Broadband metro and access networks
Merging of optical and microwave technologies
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
Quantum photonics
Quantum communications
Quantum computing
VCSELs and other novel light sources
Fibre lasers
High power lasers
Novel glasses and photonic materials
New transmission windows
Polarisation Mode Dispersion
Photonic component integration
Network planning and design tools
Big data analytics and network optimization
Non-conventional optical communications
Sub-wavelength photonic devices
Communication in transportation systems
Optical microscopy and nanoscopy techniques and applications
Optical inspection of transparent samples: quantitative phase imaging
3D optical imaging and display
Polarization-resolved optical microscopy
Image processing
Label-free super-resolution and sensing
5G to 6G communications
Space communications
Programmable photonics
Other relevant topics

Conference Venue: HOTEL CONTINENTAL ISCHIA
Via M. Mazzella 70, Ischia

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Call for Papers link