



49th ICT and Electronics Convention MIPRO

Grand Hotel Adriatic Congress Centre & Hotel Admiral, Opatija, Croatia

From ICT Foundations to Intelligent Economies

May 25 - 29, 2026

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Accepted papers presented at the conference will be submitted for inclusion in the IEEE Xplore Digital Library.

TECHNICAL CO-SPONSORSHIP



CALL FOR PAPERS

CONFERENCE ON

OPTOELECTRONICS, PHOTONICS, QUANTUM OPTICS & OPTICAL COMPUTING

SCOPE

The OPEL Conference provides an international platform for the dissemination of research and technological innovation in the fields of optoelectronics, photonics, quantum optics, and optical computing. The conference welcomes original research papers, case studies, and review contributions addressing theoretical foundations, device design and fabrication, modeling and simulation, system-level development, and applied implementations.

INVITED LECTURES



Pushing the Limits of Picosecond Fiber Lasers with Active Tapered Fiber Amplifiers

[Regina Gumenyuk](#) (Laboratory of Photonics, Tampere University, Tampere, Finland)



Phononic Crystal Electromechanics for Commercial and Not-So-Commercial Applications

[Eric Langman](#) (QFactory ApS, Copenhagen, Denmark)



Fiber-Optic Delay-Line for Phase Noise Measurement of Microwave Sources

[Andrej Lavrič](#), [Boštjan Batagelj](#) (Faculty of Electrical Engineering, University of Ljubljana, Ljubljana, Slovenia)



Multiple Frequency Combs in Multicore High Quality Factor Fiber Fabry-Perot Resonators

[Arnaud Mussot](#) (Faculty of Science and Technologies, University of Lille, Villeneuve-d'Ascq, France)



Towards Large Delocalisation of Levitated Nanoparticles

[Massimiliano Rossi](#) (Delft University of Technology, Delft, Netherlands)



Quantum Sensing and Quantum Transduction with Optomechanical Devices

[David Vitali](#) (University of Camerino, Camerino, Italy)



Please forward to your colleagues





Submit your paper for the conference OPEL which will be held at the 49th ICT and Electronics Convention MIPRO 2026.

OPEL

IMPORTANT DATES

Abstract submission

February 9, 2026

Full-paper submission

February 23, 2026

Acceptance notification

March 16, 2026

Camera ready submission

April 6, 2026

Instructions for paper preparation can be found on www.mipro.hr

REGISTRATION / FEES

EARLY BIRD
up to May 11, 2026

REGULAR
from May 12, 2026

Members of MIPRO and IEEE

297 EUR

324 EUR

Students (undergraduate and graduate)

165 EUR

180 EUR

Others

330 EUR

360 EUR

! In order to have your paper published, it is required that you pay at least one registration fee for each paper.

Authors of 2 or more papers are entitled to a 10% discount.

MORE INFO

For all future information please visit www.mipro.hr or contact directly OPEL Chairmen:

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TOPICS

1. Optoelectronics and Semiconductor Devices

- Semiconductor materials and device physics (III–V, II–VI, Si, SiGe, InP, GaAs, GaN, perovskites)
- Light emission and detection principles — LEDs, laser diodes, photodiodes, avalanche photodiodes (APD), single-photon avalanche diodes (SPAD)
- High-speed modulators, drivers, and transimpedance amplifiers (TIA)
- High-frequency optoelectronic circuits (RF photonics, microwave photonics)

2. Integrated Photonics

- Photonic integrated circuits (PICs): design, fabrication, and characterization
- Silicon-on-insulator (SOI), silicon nitride, InP, GaAs, and hybrid material platforms
- Waveguides, couplers, splitters, interferometers, and ring resonators
- Polarization control, dispersion engineering, and mode couplin
- 3D integration and co-packaged optics (CPO)
- Heterogeneous integration with CMOS electronics
- Optical interconnects for data centers and HPC systems

3. Nonlinear, Ultrafast, and High-Field Optics

- Nonlinear optical processes
- Supercontinuum generation, pulse compression, and ultrashort pulse dynamics
- Attosecond and femtosecond optics; ultrafast light–matter interactions
- Ultrafast spectroscopy and pump–probe techniques
- Laser filamentation, solitons, and light bullets
- High-intensity laser–plasma interactions
- Temporal, spatial, and spectral pulse shaping

4. Quantum Optics and Quantum Photonics

- Generation and detection of single and entangled photons
- Quantum secure communication
- Quantum memories, repeaters, and synchronization
- Quantum light sources: heralded, deterministic, and integrated sources
- Quantum imaging and ghost imaging

5. Optical Computing and Neuromorphic Photonics

- Optical and photonic computing architectures (digital, analog, hybrid)
- Optical accelerators for artificial intelligence and machine learning
- Coherent optical logic and photonic memory devices
- Free-space and integrated optical interconnects
- Optical FPGA and reconfigurable photonic hardware
- Optical signal processing and photonic DSP

6. Biophotonics, Optical Sensing, and Imaging

- Optical coherence tomography (OCT), photoacoustic and Raman imaging
- Fluorescence and multiphoton microscopy
- Optical biosensors and lab-on-chip photonics
- Spectroscopic techniques for chemical and biological detection
- Fiber-optic sensors and distributed sensing systems
- Terahertz imaging and spectroscopy
- Biophotonic instrumentation and data analytics

7. Systems, Networks, and Applications

- Optical communications (fiber, free-space, inter-satellite)
- High-speed coherent transceivers and advanced modulation formats
- Optical switching, multiplexing, and routing systems
- Photonic systems for sensing, metrology, and control
- Space optics and satellite optical links
- Optical instrumentation in scientific and industrial applications
- Photonic microwave systems and radio-over-fiber (RoF)
- Optoelectronic and photonic systems for Industry 5.0
- AI-driven photonic systems and self-calibrating instruments

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