

SPIE PHOTONICS EUROPE 2024 BEST STUDENT PAPER AWARDS

Metamaterials

12990-26

Flexible holographic metasurfaces for shape dependent imaging and curvature sensing

Jianling Xiao, Univ. of St. Andrews (United Kingdom)

Nanophotonics

12991-142

Resonant and non-resonant microcavity effects on nitrogen vacancy centres

Debojyoti Ray Chawdhury, Indian Institute of Technology Madras (India)

Advances in Ultrafast Condensed Phase Physics IV

12992-43

Universal valley control with polarization tailored light

Igor Tyulnev, ICFO - Institut de Ciències Fotòniques (Spain)

Quantum Technologies 2024

12993-9

Towards on-chip demonstration of a high-dimensional quantum random number generator

Maddalena Genzini, Technical Univ. of Denmark (Denmark)

Unconventional Optical Imaging IV

12996-57

Inpainting sparse scenes through physics aware transformers for single-photon LIDAR

Luke McEvoy, Stevens Institute of Technology (United States)

Optics and Photonics for Advanced Dimensional Metrology III

12997-58

Towards online monitoring of water pollutants: an optofluidic chip for characterizing microplastics in water

Mehrdad Lotfi Choobbari, Vrije Univ. Brussel (Belgium)

Optics, Photonics and Digital Technologies for Imaging Applications

12998-3

Visible and near infrared LCTF-based hyperspectral dermoscope targeting early detection of skin cancer

Maria Castro-Fernandez, Instituto Univ. de Microelectrónica Aplicada, Univ. de Las Palmas de Gran Canaria (Spain)

Optical Sensing and Detection

12999-35

Integrated photonic interrogators for fiber-optic sensing applications

Aleksandra Bieniek-Kaczorek, Warsaw Univ. of Technology (Poland); Stanislaw Stopinski, Krzysztof Anders, Warsaw Univ. of Technology (Poland)

Specialty Optical Fibres VIII

13001-6

Static and dynamic mode interaction in high-average power polarization maintaining fibers

Gonzalo Palma Vega, Fraunhofer-Institut für Angewandte Optik und Feinmechanik IOF (Germany)

Fiber Lasers and Glass Photonics: Materials through Applications IV

13003-36

Optical properties of Tm-doped glasses for laser fibres

Arni Pratiwi, Leibniz-Institut für Photonische Technologien e.V. (Germany)

Nonlinear Optics and its Applications 2024

13004-19

Travelling-wave optical parametric amplification in gallium phosphide integrated waveguides

Nikolai Kuznetsov, Ecole Polytechnique Fédérale de Lausanne (Switzerland)

Lasers and Photonics for Advanced Manufacturing

13005-5

Ultrafast laser drilling of through vias in soda-lime glass using GHz-burst mode operation

Pierre Balage, Ctr. Lasers Intenses et Applications (France);

AND

13005-46

Axicon-lens-doublet focusing for the fabrication of ultra-high-aspect-ratio structures through silicon with infrared ultrafast lasers

Niladri Ganguly, Aix-Marseille Univ., CNRS (France)

Biomedical Spectroscopy, Microscopy, and Imaging III

13006-3

Advancing hemoglobinopathy screening with Raman spectroscopy and machine learning

Sara Abbasi, Vrije Univ. Brussel (Belgium)

Biophotonics in Point-of-Care III

13008-27

Analysis of infusion solutions using a multisensory approach consisting of Raman spectroscopy, refractometry, and UV/Vis spectroscopy to prevent medication errors

Florian Wieduwilt, Institut für Nanophotonik Göttingen e.V. (Germany)

Tissue Optics and Photonics III

13010-23

Impact of histological processing on the polarimetric properties of healthy and neoplastic brain tissue

Romane Gros, Univ. Bern (Switzerland)

Optics, Photonics and Digital Technologies for Imaging Applications

13015-43

Evaluation of sunflower seed priming with gamma-aminobutyric acid-capped silver nanoparticles produced by the photoreduction method

Isabela Santos Lopes, Univ. Federal de São Paulo (Brazil)

Optics, Photonics and Digital Technologies for Imaging Applications

13016-33

Development and characterization of a hyperspectral LCTF-based colposcopic system

Carlos Vega, Univ. de Las Palmas de Gran Canaria (Spain)

Machine Learning in Photonics

13017-42

Optical neural networks trained in situ with reinforcement learning

Oliver Neill, Univ. of Glasgow (United Kingdom)

PHOTONICS EUROPE 2024 BEST PAPER SPONSORSHIPS:

Real-time Processing of Image, Depth and Video Information 2024

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13000-17

Lithium-niobate photonic integrated circuits for GHz, sub-picojoule/bit optical image processing

Julian Rasmus Bankwitz, Ruprecht-Karls-Univ. Heidelberg (Germany)

Specialty Optical Fibres VIII

BEST PAPER SPONSORED BY:



13001-13

Distributed measurement of gas pressure dynamics in as-drawn hollow-core fibres

Elizaveta Elistratova and Thomas W. Kelly, Univ. of Southampton (United Kingdom)

Liquid Crystals Optics and Photonic Devices

1st place

BEST PAPER SPONSORED BY:



13016-41

Liquid Crystalline Networks for multi-responsive microstructures

Simone Donato, LENS, Univ. of Florence (Italy)

Liquid Crystals Optics and Photonic Devices

2nd place

BEST PAPER SPONSORED BY:



13016-10

Thermal Actuation of topological soliton embedded into liquid crystal coating.

Jacques Peixoto, Technische Univ. Eindhoven (Netherlands)

Liquid Crystals Optics and Photonic Devices

Best Poster

BEST POSTER SPONSORED BY:



13016-56

Faster narrowband multi-spectral liquid crystal-based imaging modules tailored to the specific application

Doron Pasha, Ben-Gurion Univ. of the Negev (Israel)

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***Conferences that have not selected a winner:***

CONFERENCE 12994. Terahertz Photonics III

CONFERENCE 12995. 3D Printed Optics and Additive Photonic Manufacturing IV

CONFERENCE 13000. Real-time Processing of Image, Depth and Video Information 2024

CONFERENCE 13011. Data Science for Photonics and Biophotonics

CONFERENCE 13002. Semiconductor Lasers and Laser Dynamics XI

CONFERENCE 13012. Integrated Photonics Platforms III

***No entries received:***

CONFERENCE 13007. Neurophotonics II

CONFERENCE 13009. Clinical Biophotonics III

CONFERENCE 13013. Organic Electronics and Photonics: Fundamentals and Devices IV

CONFERENCE 13014. Photonics for Solar Energy Systems X