

## Organising Committee

- Prof Zabih Ghassemlooy - **General Chair** - Northumbria University, UK; [z.ghassemlooy@northumbria.ac.uk](mailto:z.ghassemlooy@northumbria.ac.uk)
- Prof Luis Nero Alves – **Local Chair of CSNDSP2022** - University of Aveiro, Portugal; [nero@ua.pt](mailto:nero@ua.pt)

### Technical Program Chair

- Prof Stanislav Zvanovec - Czech Technical Univ. of Prague, Czech Republic
- Prof Anh T Pham - The University of Aizu, Japan
- Dr Mohammad-Ali Khalighi - Institut Fresnel, France
- Prof Zhengyuan Xu - Univ. of Science & Technology of China, China
- Prof Rafael Perez Jimenez - Universidad de Las Palmas de Gran Canaria, Spain
- Dr Hoa Le-Minh - Northumbria University, UK
- Dr Wasiu O. Popoola - The Univ. of Edinburgh, UK

- Dr Anna Maria Vegni - Roma Tre University, Italy
- Dr Monica Figueiredo - Polytechnic of Leiria, Portugal

### Workshop TPC

- Prof Beatriz Ortega - Universitat Politècnica de València; [bortega@dcop.upv.es](mailto:bortega@dcop.upv.es)
- Dr Luis Manuel Pessoa - University of Porto, Portugal
- Dr Luisa Jorge - Instituto Politécnico de Bragança, Portugal
- Dr Jose Rabadan - Universidad de Las Palmas de Gran Canaria, Spain
- Dr Panagiotis Diamantoulakis - Aristotle University of Thessaloniki, Greece
- Dr Pranciškus Vitta - Vilnius University, Lithuania

## International Technical and Advisory Program Committee

Prof Paulo André, University of Aveiro, Portugal  
 Dr Gholamreza Baghersalimi, Guilian Univ., Iran  
 Prof Silvello Betti, Univ. Tor Vergata, Rome, Italy  
 Dr Manav Bhatnagar, Indian Institute of Technology, Delhi, India  
 Prof Mauro Biagi, Univ. of Rome "Sapienza", Italy  
 Prof Anthony C. Boucouvalas, Univ. of Peloponnese, Greece  
 Dr Julian Cheng, The Univ. of British Columbia, Canada  
 Prof Nan Chi, Fudan Univ., China  
 Prof Yeon Ho Chung, Pukyong National Univ., S. Korea  
 Prof Ngoc Dang, Vietnam P&T Inst. of Techn., Vietnam  
 Prof Izzat Darwazeh, Univ. College London, UK  
 Prof Mónica Figueiredo, Polytechnic Institute of Leiria, Portugal  
 Dr Asghar Gholami, Isfahan University of Technology, Iran  
 Dr Dirk Giggenbach, DLR, Munich, Germany  
 Prof. Steve Hranilovic, McMaster Univ., Canada  
 Dr Lucie Hudcova, Brno University of Technology, Czech Republic  
 Dr Thomas Kamalakis, Harokopio Univ. of Athens, Greece  
 Prof Mohsen Kavehrad, Pennsylvania State Univ., USA  
 Prof Erich Leitgeb, Technische Univ. Graz, Austria  
 Prof Shien-Kuei Liaw, National Taiwan Univ. of Scie. & Tech., Taiwan  
 Dr Pengfei Luo, Huawei, China  
 Prof George K. Karagiannidis, Aristotle Unif. Thessaloniki, Greece

Prof Thomas D Little, Boston Univ., USA  
 Dr Valeria Loscri, Inria Lille - Nord Europe, France  
 Prof Paulo Monteiro, University of Aveiro, Portugal  
 Dr Vuong Mai, Korea Advanced Insti. of Science and Techn. S. Korea  
 Dr Phuc Trinh, National Inst. of Inf.&Comm. Techn., Japan  
 Dr Hector E. Nistazakis, Univ. of Athens, Greece  
 Dr Stephen Patrick, Wireless Excellence, UK  
 Dr Joaquin Perez Soler, Univ. of Valencia, Spain  
 Dr Christina (Tanya) Politi, University of Peloponnese, Greece  
 Dr Sujan Rajbhandari, Bangor Univ., UK  
 Dr Mohammad-Sajad Sadough, S Beheshti Univ., Iran  
 Prof Mohammad S Sajid, FAST\_NU, Lahore, Pakistan  
 Prof. Alexandre Pohl, Universidade Tecnológica Federal do Paraná.  
 Dr Ismael Soto, Univ. of Santiago, Chile  
 Prof Hsin-Mu Tsai, National Taiwan Univ., Taiwan  
 Dr Eszter G. Udvary, Budapest Univ. of Tech & Econ, Hungary  
 Prof Murat Uysal, Ozyegin Univ., Turkey  
 Dr Kostas Yiannopoulos, Univ. of Peloponnese, Greece  
 Prof Changyuan Yu, Hong Kong Polytechnic Univ., PRC  
 Prof Min Zhang, Beijing Post and Telecommun. Univ., China  
 Dr Wende Zhong, Nanyang Technology Univ., Singapore

The 8<sup>th</sup> colloquium on optical wireless communications (OWC), one of the largest event, provides a forum for researchers, product and system engineers and systems developers to present and discuss their latest research results in OWC. Papers are solicited on, but are not limited to, the following topics:

### • Indoor OWC

- Visible light and infrared communications
- Hybrid VLC/IR
- Optical camera communications

### • Outdoor and Space OWC

- Characterization and modeling of FSO links
- Advances in communication system design
- Atmospheric effects on high-data-rate FSO links
- Diversity schemes in FSO links
- Deep space and inter-satellite, optical LEO-downlinks
- Design of flight- and space-worthy OWC
- Energy efficiency
- Hybrid RF/FSO systems
- Radio over fiber and FSO systems
- Multi-input-multi-output techniques

### • Underwater OWC

- Channel modelling
- Water to UAV communications

### • Experiments, sub-system designs and components in OWC

- Optical components
- Novel optical transceivers and architectures
- Novel techniques for rapid target acquisition, beam pointing and tracking
- Infield or laboratory experimental demonstration, test, and performance characterizations for FSO links

### • Applications of OWC

- OWC in 5/6G networks
- Massive IoT
- Vehicular communications
- Deep and machine learning
- Integration of optical links in networking contexts (e.g. inter-UAV communications)
- Optical wireless sensor networks

### • Others

- Quantum Communications in OWC