

Call for papers

Optical and Grid Networking Symposium (OGN)

IEEE ICNC 2023

Honolulu, Hawaii, USA, Feb 20-22, 2023

<http://www.conf-icnc.org/2023>

Symposium Co-Chairs

Martin Maier, Institut National de la Recherche Scientifique (INRS), Canada (martin.maier@inrs.ca)

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Scope

The Optical and Grid Computing Symposium focuses on state-of-the-art research topics related to all aspects of optical communications, networking, experiments, demonstrations, field trials, and applications in support of backbone/wireless/grid/cloud/fog/edge computing. To ensure a complete coverage of the advances in optical communication and networking related technologies, the Optical and Grid Computing Symposium aims at presenting original contributions in, but not limited to the following topical areas:

- Optical networks to support cloud, grid, and edge computing
- Network function virtualization (NFV) in optical networks
- Software defined networking (SDN) for optical networks
- Machine learning for technology in optical networks
- Optical networks and systems for IoT and smart grids
- Optical networking in 5G and 6G systems
- Convergence of optical and wireless networks
- Visible light communications and networks
- Free space optical communications and networking
- Optical network architectures and cloud-native networking
- Optical communications and networking for deep space networks
- Quantum communications and their applications in future optical networks
- Elastic/flexible-grid optical networks
- Multi-layer and multi-domain optical networks
- Optical access networks
- Optical inter and intra-datacenter networks
- Optical network design and reconfiguration
- Optical network control and management
- Optical network virtualization
- Routing and spectrum assignment
- Protection and restoration
- Traffic grooming and traffic engineering in optical networks
- Impact of the physical-layer impairments on optical network design and traffic engineering
- IP-WDM integration
- Multicasting in optical networks

- Optical network security
- Optical switching technologies, devices, and architectures
- Multi-granularity switching
- Field trials, new applications and experiments
- Energy-efficient/green optical networks and systems
- Zero Touch and Zero Trust Optical Networks
- In network computing

Submission Guidelines

Perspective authors should follow the instructions at <http://www.conf-icnc.org/2023/author.htm> to prepare their manuscripts. All papers should be submitted via EDAS. Submission information can be found at <http://www.conf-icnc.org/2023/cfp.htm>.

Short Biographies of Co-Chairs

Martin Maier is a Full Professor with the Institut National de la Recherche Scientifique (INRS), Montréal, Canada. He was educated at the Technical University of Berlin, Germany, and received M.Sc. and Ph.D. degrees (both with distinctions) in 1998 and 2003, respectively. He was a co-recipient of the 2009 IEEE Communications Society Best Tutorial Paper Award. Further, he was a Marie Curie IIF Fellow of the European Commission from March 2014 through February 2015. In March 2017, he received the Friedrich Wilhelm Bessel Research Award from the Alexander von Humboldt (AvH) Foundation in recognition of his accomplishments in research on FiWi enhanced mobile networks. In May 2017, he was named one of the three most promising scientists in the category "Contribution to a better society" of the Marie Skłodowska-Curie Actions (MSCA) 2017 Prize Award of the European Commission. In winter 2019/20, he held a UC3M-Banco de Santander Excellence Chair at Universidad Carlos III de Madrid (UC3M), Madrid, Spain. He is co-author of the book "Toward 6G: A New Era of Convergence" (Wiley-IEEE Press, January 2021).

Luca Valcarengi is an Associate Professor at the Scuola Superiore Sant'Anna of Pisa, Italy, since 2014. He holds a Laurea degree in Electronics Engineering (1997) from the Politecnico di Torino, Italy, a M.S. in Electrical Engineering (1999), and a Ph.D. in Electrical Engineering-Telecommunications (2001) both from The University of Texas at Dallas (UTD). Dr. Valcarengi received a Fulbright Research Scholar Fellowship in 2009 and a JSPS "Invitation Fellowship Program for Research in Japan (Long Term)" in 2013. Dr. Valcarengi is an IEEE Senior Member since 2014. He actively participated in the TPC and organizing committee of several IEEE-sponsored conferences, such as Globecom, ICC "Optical Network and System Symposium" and "Next-Generation Networking & Internet Symposium", Symposium on High Performance Interconnects (Hot Interconnects), International Conference on Optical Network Design and Modeling (ONDM), International Conference on Transparent Optical Networks (ICTON). He has been TPC co-chair of the "Optical Network and System Symposium" at IEEE ICC 2011 (Kyoto, Japan) and IEEE ICC 2015 (London, UK). He published almost three hundred papers (source Google Scholar, July 2022) in International Journals and Conference Proceedings. His main research interests are optical networks design, analysis, and optimization; communication networks reliability; energy efficiency in communications networks; optical access networks; zero touch network and service management; experiential networked intelligence; 5G technologies and beyond.

Zuqing Zhu received his PhD degree from the Department of Electrical and Computer Engineering, University of California, Davis, in 2007. From July 2007 to January 2011, he worked in the Service Provider Technology Group of Cisco Systems, San Jose, California, as a senior engineer. In January 2011, he joined the University of Science and Technology of China, where he is currently a Full Professor and vice dean of School of Information Science and Technology. He has published more than 300 papers in peer-reviewed journals and conferences. He is currently the Area Editor of Optical Communications and Networking of the IEEE Open Journal of the Communications Society, an Associate Editor of IEEE Transactions on Network and Service Management, Optics Express, IEEE Systems Journal and others, and has been the Lead Series Editor of the Optical Communications Series in IEEE Communications Magazine. He is the Steering Committee Chair of the IEEE International Conference on High Performance Switching and Routing (HPSR), a Member-at-Large of GLOBECOM/ICC Technical Content (GITC) Committee, the Chair of the Optical Networking Technical Committee of IEEE ComSoc, and has been an IEEE ComSoc Distinguished Lecturer with the term of 2018-2021. Together with his students, he has received Best Paper Awards from ICC 2013, GLOBECOM 2013, ICNC 2014, ICC 2015, and ONDM 2018. He is a Senior Member of IEEE and a Senior Member of Optica (former OSA).