

# The 3<sup>rd</sup> West Asian Symposium on Optical & Millimeter-wave Wireless Communications (WASOWC2020)

## CALL FOR PAPERS

21-22 April 2020

Tarbiat Modares University, Tehran, Iran

<http://wasowc2020.modares.ac.ir>



The 3<sup>rd</sup> West Asian Symposium on Optical and Millimeter-wave Wireless Communications (WASOWC2020) is hosted at the Tarbiat Modares University (TMU), Tehran, Iran. It follows the successful previous events held in Isfahan University of Technology (2018) and Shahid Beheshti University (2019). WASOWC2020 aims to bring together researchers from academia and industry to share their latest findings in the field of optical & millimeter-wave wireless communications as part of the 5<sup>th</sup> Generation and beyond wireless networks. The 3<sup>rd</sup> Symposium will also include workshops, invited and keynote speakers. High quality and original technical papers are welcome to be presented at WASOWC2020.

### Important Dates

- Paper submission deadline: 15 Dec. 2019
- Notification of acceptance: 25 Feb. 2020
- Submission of final papers deadline: 10 March 2020

### Conference Topics

Contributions including but not limited to the following:

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• All organic visible light communications (VLCs)</li> <li>• Channel modelling and characterisation, channel capacity analysis</li> <li>• Diversity techniques, dimming, data communications and localisation in VLCs</li> <li>• Free space optics (FSO), outdoor and under water – Last meter to last mile</li> <li>• Hybrid millimetre-wave (MMW)- optical wireless communications (OWC) links</li> <li>• Hybrid IR/VLC technology</li> <li>• Modelling of various noises in MMW/OWC systems</li> <li>• Modulation, coding and detection schemes</li> <li>• Mobile-to-infrastructure and mobile-to-mobile communications</li> <li>• OWC, MMW, and THz novel devices and components</li> </ul> | <ul style="list-style-type: none"> <li>• OWC and MMW networks: architecture, PHY/MAC design, cross-layer design</li> <li>• Applications of OWC (VLC, FSO) and MMW for: Device-to-device communications, e-Health, e-Commerce, Intelligent transportation systems (e.g. vehicle-to-vehicle and vehicle-to-infrastructure communications, trains, aircrafts, etc.), Underwater, Indoor positioning, Inter and intra chip communications, Internet-of-Things (IoT), Medical, Space, Manufacturing, Wireless sensor networks</li> <li>• Next generation OWC and MMW networks</li> <li>• OWC and MMW transceiver design and optimization</li> <li>• Ultraviolet communications</li> <li>• Massive MIMO for optical and MMW links</li> <li>• Others</li> </ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Steering Committee

- Prof. Zabih Ghassemlooy, Northumbria University, UK, **General Chair**
- Prof. Vahid Ahmadi, TMU, Tehran, Iran, **Chair of LOC & Scientific Committee**
- Prof. Stanislav Zvanovec, Czech Technical University in Prague, Czech Republic
- Dr. Mohammad Ali Khalighi, Ecole Centrale Marseille-Institut Fresnel, France
- Dr. Asghar Gholami, Isfahan University of Technology, Iran.
- Dr. Seyed M. Sajad Sadough, Shahid Beheshti University, Tehran, Iran
- Prof. Luis N. Alves, Instituto Politecnico de Leiria, Portugal

### Local Committee

- Prof. Vahid Ahmadi, TMU, Tehran, Iran
- Prof. Mohammad Kazem Moravvej-Farshi, TMU, Iran
- Dr. Farzaneh Arabpour, TMU, Iran
- Dr. Maryam Alidaee, TMU, Iran
- Dr. Hossein Taleb, TMU, Iran
- Dr. Mohsen Samadi, TMU, Iran
- Dr. Saeed Pahlavan, TMU, Iran

## International Technical Committee

- Prof. George K. Karagiannidis, *Aristotle University of Thessaloniki, Greece*
- Prof. Mohammad Kazem Moravvej-Farshi, *Tarbiat Modares University, Iran*
- Prof. Vahid Ahmadi, *Tarbiat Modares University, Iran*
- Prof. Asghar Asgari, *University of Tabriz, Iran*
- Dr. Gholamreza Baghersalimi, *University of Guilan, Iran*
- Dr. Hamzeh Beyranvand, *Amirkabir University of Technology, Iran*
- Dr. Sara Darbari, *Tarbiat Modares University, Iran*
- Prof. Yeon-Ho Chung, *Pukyong National University, Korea*
- Dr. Mohammad Reza Pakravan, *Sharif University of Technology, Iran*
- Dr. Bijan Ghafary, *University of Science and Technology, Iran*
- Dr. Saeed Golmohammadi, *University of Tabriz, Iran*
- Prof. Nosrat Granpayeh, *K. N. Toosi University of Technology, Iran*
- Dr. Paul Haigh, *University College London, UK*
- Dr. Rafael Perez Jimenez, *Universidad de las Palmas de Gran Canaria, Spain*
- Dr. Thomas Kamalakis, *Harokopio University, Greece*
- Dr. Majid Safari, *University of Edinburgh, Edinburgh, UK*
- Dr. Salman Khan, *University of Engineering and Technology, Pakistan*
- Prof. Ali Rostami, *University of Tabriz*
- Dr. Kyesan Lee, *Kyung Hee University, Korea*
- Dr. Mohsen Ghaffari, *Tarbiat Modares University, Iran*
- Dr. Refik Caglar Kizilirmak, *Nazarbayev University Astana, Kazakhstan*
- Dr. Manav Bhatnagar, *Indian Institute of Technology - New Delhi, India*
- Prof. Shien-Kuei Liaw, *National Taiwan University of Science and Technology, Taipei*
- Dr. Tran The Son, *Vietnam-Korea Friendship ITC, Vietnam*
- Dr. Wasiu O. Popoola, *University of Edinburgh, UK*
- Dr. Zahra Atlasbaf, *Tarbiat Modares University, Iran*
- Dr. Anna Maris, *Roma Tre University, Italy*
- Prof. Abdolali Abdipour, *Amirkabir University, Iran.*
- Prof. Masoumeh Nasiri Kenari, *Sharif University of Technology, Iran*
- Dr. Saeid Olyae, *S. Rajaee Teacher Training University, Iran*
- Dr. Anh T. Pham, *The University of Aizu, Japan*
- Dr. Sujana Rajbhandari, *University of Coventry, UK*
- Prof. Mahmoud Shahabadi, *University of Tehran, Iran*
- Prof. Anthony C. Boucouvalas, *University of Peloponnese, Greece*
- Prof. Min Zhang, *Beijing University of Posts and Telecommunications, China*
- Prof. Jawad Salehi, *Sharif University of Technology, Iran*
- Prof. Xuan Tang, *Chinese Academy of Sciences, China*
- Dr. Hsin-Mu Tsai, *National Taiwan University, Taiwan*
- Prof. Murat Uysal, *Ozyegin University, Turkey*
- Dr. Kyujin Lee, *Semyung University, Korea*
- Dr. Mohammad Hassan Yavari, *Shahed University, Iran*
- Prof. Amir Ahmad ShisheGar, *Sharif University of Technology*

## Sponsors



OPS of Iran



IAEEE



SBU



Iranian Space Agency



National Research Institute for Science Policy (NRISP)



CSNDSP



ISRC  
پژوهشگاه فضایی ایران  
Iranian Space Research Center



Wireless Fiber Optics



OCR Group



MSRT



Chinese Academy of Sciences



Tavanir Company



ISAC MSRT



Tarbiat Modares University



Kharazmi University



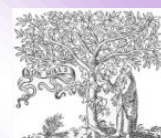
K. N. Toosi University of Technology



Tabriz University



Presidency of IRI  
Vice-Presidency for Science & Technology



ELSEVIER



MINISTRY OF I.C.T



For further details: WASOWC 2020 secretariat, [wasowc2020@modares.ac.ir](mailto:wasowc2020@modares.ac.ir), Tel/Fax: +98(0)21-82884906