



CALL FOR PAPERS

The 1st Vision Workshop on Optical Wireless Communications in conjunction with 15th International Conference on Telecommunications (ConTel), 3 July 2019, Graz, Austria

Website: <http://www.contel.hr/2019/>

Technical Co-sponsor of ConTel2019: **IEEE**

In the last decade, we have seen a growing trend in research and development activities in the emerging field of Optical Wireless Communications (OWC) covering Visible-Light Communications (VLC) and free space communications (FSO) for indoor and outdoor application including as well underwater communications. **Visible light based Interoperability and Networking (VisIoN)** is a European project (grant agreement n° 764461) funded by the European Union's Horizon 2020. The project is a Marie Skłodowska-Curie Innovative Training Network (MSCA ITN); a joint research training and doctoral programme, implemented by a partnership of high profile universities, research institutions and industrial research partners that are located in 7 different countries (see www.vision-itn.eu). It aims to train a new generation of early-stage researchers in the emerging area of VLC covering Smart Cities, Offices and Homes, Smart Transportation, and Manufacturing and Medical. As part of the Vision, there will be a number of technical Workshops on the Topic of OWC and in particular VLC and its application. The aim is to bring together researchers from Vision, academia and industry working in the field of OWC to present, share and discuss their latest research findings. High technical quality papers are solicited to be presented at the Workshop.

TOPICS OF INTEREST - includes (contributions are not limited to the following):

- *All organic based VLC*
- *Channel modelling and characterisation*
- *Channel capacity analysis*
- *Diversity techniques*
- *Dimming and communication in VLC*
- *OWC-based localisation*
- *Free space optics*
- *Hybrid RF/VLC/FSO*
- *MIMO for VLC/FSO*
- *Modelling of various noises in optical wireless communications*
- *Modulation, coding and detection schemes*
- *Mobile-to-infrastructure and mobile-to-mobile optical communication*
- *Novel (photonic) devices and components*
- *VLC and FSO networks: architecture, PHY/MAC design, cross-layer design etc.*
- *OWC applications*
- *Transceiver design and optimization*
- *Duplexing and multiple access techniques*
- *OWC for the space industry*
- *Underwater OWC communications*
- *Ultraviolet communications*

ORGANIZING COMMITTEE

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- Dr Asghar Gholami, *Isfahan University of Technology, Iran*
- Dr Majid Safari, *University of Edinburgh, UK*

SUBMISSION PROCEDURE – See <http://www.contel.hr/2019/paper-submission-is-now-open/>

All papers will appear in the IEEE Xplore

KEY DATES:

- Full Papers – 5 April 2019
- Notification of Acceptance -10 May 2019
- Final, Camera Ready Papers. 24 May 2019

For further details, please contact the organising committee members

