



## 7<sup>th</sup> IEEE Globecom Workshop on Optical Wireless Communications (OWC'17)

<http://yamazato.ilas.nagoya-u.ac.jp/owc/>

### Organizers

Steve Hranilovic, McMaster University, Jean Armstrong, Monash University, Takaya Yamazato, Nagoya University

### Important Dates

Submission due: ~~July 1, 2017~~ **Extended to 23 July 2017 (Hard deadline. There will not be any further extensions.)**

Decision notification: September 1, 2017

Camera-ready and registration due: October 1, 2017

### Submissions Requirement

IEEE OWC Workshop accepts only novel, previously unpublished papers in the area of optical wireless communications. Prospective authors are encouraged to submit a 6-page IEEE conference style paper (including all text, figures, and references) through EDAS via <https://edas.info/newPaper.php?c=23469&track=85950>

### Main Topics of Interest

The workshop plans to focus on short to medium range optical wireless communications, from indoor to outdoor, from atmosphere to ground and underwater. Topics of interest include, but are NOT limited to:

- Mobile-to-infrastructure and mobile-to-mobile optical communication
- Vehicle-to-vehicle and vehicle-to-traffic light optical communication
- Communication characteristics of single-chip and multi-chip lighting LEDs
- Impact of lighting in concurrent VLC design
- Modeling of indoor diffused and reflected light beams
- Modulation, coding and detection for different optical spectra
- Multi-input multi-output optical communication techniques
- VLC transceiver design and optimization
- VLC link duplexing and multiple access techniques
- UVC atmospheric scattering and absorption channel modeling
- UVC system design perspectives
- UVC range/rate/BER performance tradeoffs
- Beam diverging and concentrating techniques
- New aspects of IRC and applications
- Modeling of various noises in optical wireless communication
- Underwater optical channel modeling and system design
- LED pointing, acquisition and tracking in mobile scenarios
- Navigation and sensor networks by LEDs
- Wavelength planning in optical communication techniques
- Optical wireless interconnect in the datacenter
- Centralized and distributed optical wireless network designs
- Mobility, tracking and steering in indoor environment
- Fading mitigation in FSO links: spatial, temporal, polarization, coding, and adaptive approaches
- Optical wireless sensor networks
- Optical wireless positioning
- Optical wireless communications in 5G networks