



The 2nd EAI International Conference on Future Intelligent Vehicular Technologies
OCTOBER 17–19, 2017 | ISLAMABAD, PAKISTAN

Call for Papers

Special Session: Optical Multicarrier Generation and its Applications

Outline:

The ongoing exponential growth and ever-increasing demand for broadband and triple play applications calls for optical frequency comb generation or optical multicarriers. Optical frequency locked and coherent multicarriers were studied in the past decade for their numerous applications such as reconfigurable optical pulse generator, wavelength division multiplexing, and optical signal processing. Optical frequency comb is deployed in numerous super channel systems due to its supportive property in optical transmissions supporting high data rates in long-distance systems, next generation optical access networks. OMC is to generate many carriers from single light source by deploying different architectures. On the other hand, due to striking demand of high bandwidth communication, next generation optical access networks are highly desired due to provision of high bandwidth. WDM-PON is an attractive solution for next generation access network but it has some problems that includes costs, efficiency/power, and technology support at optical line terminal and optical network unit size. Software Defined Network based elastic PON is an attractive solution to control the uplink and downlink transmission in the optical access networks. Recently most of the researchers are inclined towards the deployment of optical communication for both safety and non-safety applications in VANETS. In conclusion, OMC can be deployed in many research areas in optical communications effectively.

Topics:

Topics include but are not limited to:

- Radio over fiber
- Next generation optical access networks
- Optical multicarrier generation
- Software defined network based optical access network
- Photonic sensor networks
- High capacity coherent communication
- Optical/Electronic Amplifier designing
- MIMO based optical communication
- Utilization of free space optical signals in VANETS

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Important Dates: Full Paper Submission deadline: **1 June 2017**
Notification deadline: **31 July 2017**
Camera-ready deadline: **31 August 2017**



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