

Title: International Workshop on Visible Light Communications at ACP

2017

General Co-Chair:

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Sponsors of Workshop: To be determined.

Technical scope of the workshop:

With the increasingly scarce of wireless spectrum resources and the urgent demands of high speed, safe, environmentally friendly means of communication in nowadays, visible light communication emerges at a historic moment. In recent ten years, VLC technology has been developed rapidly. Governments worldwide have paid great attentions on it. By using a LED as the signal transmitter, VLC is expected to integrate communication functions on the existing lighting facilities, which can provide a new wireless communication access to make full usage of resources. VLC can be used for many applications and areas,

such as indoor and outdoor information network, indoor positioning systems, and security network systems.

The goal of this workshop is to provide a technical forum to present the latest research in in VLC and exchange ideas in this emerging green post-radio frequency technology. We welcome contributions from both academic and industry covering a range of topics in VLC including but not limited to the following:

- Indoor and outdoor optical channel modeling and characterization
- Enabling technologies on the physical layer: new LED and detectors, advanced modulation methods, equalization and estimation, new signal processing algorithms, etc.
- Topology control, routing and VLC network architecture
- Integration of VLC with PLC, Ethernet, WiFi and Mobile Communication
- Versatile applications of VLC systems/networks: Optical Camera Communications, under water wireless communication, navigation and localization, application in vehicular communications, etc.