

Special Issue

Optical Camera Communications and Applications

Message from the Guest Editor

Recent advancements in display technologies as well as the widespread availability of cameras in handheld devices such as smartphones have made optical camera communications (OCC) a very attractive technology. This Special Issue will provide forum for the latest research and innovations in OCC technologies as well as their applications in multiple domains. Topics including, but not limited to:

- Indoor and outdoor optical camera channel characterization and network modeling;
- Transceiver design and performance;
- Visible light, infrared, and ultraviolet camera communications;
- Information theory and capacity in OCC channels;
- Modulation, coding, OFDM, MIMO, and signal processing techniques for OCC systems;
- Channel access, interference cancellation, and scheduling coordination for OCC systems;
- Topology control and routing for OCC networks;
- OCC-based solutions for vehicular, D2C, human-computer interaction (HCI), and chip-to-chip communications;
- OCC for Beyond 5G (B5G), 6G, and B6G networks;
- Security and privacy issues in OCC;
- IEEE 802.15.7 standardization;
- Deep learning and neural network assistance for OCC systems.

Guest Editor

Prof. Dr. Sung-Yoon Jung

Department of Electronic Engineering, Yeungnam University,
Gyeongsan 38541, Republic of Korea

Deadline for manuscript submissions

closed (20 March 2023)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/112113

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

mdpi.com/journal/

[appls](https://appls.mdpi.com)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)