

Special Issue

Advanced Applications in Wireless Optical Communications

Message from the Guest Editors

In recent years, a staggering growth of mobile data traffic due to the widespread use of wirelessly connected mobile devices. Due to the nearly exhausted radio frequency (RF) spectrum resource, it becomes challenging to support the ever-increasing mobile data traffic using conventional RF technology. As an emerging technology, optical wireless communications (OWC) have attracted tremendous attention lately, due to its inherent advantages such as license-free spectrum, large capacity and high security. OWC can be implemented by using various wavelength regions including infrared (IR), visible light (VL) and ultraviolet (UV), and can be applied in various scenarios including indoor, outdoor and underwater environments. Nevertheless, the massive deployment of OWC systems faces several key challenges such as high transmission rate, low energy consumption, low latency, and flexible/robust system design. The Special Issue aims to attract contributions in all areas of OWC and publish high-quality research articles as well as review articles that seek to address the challenges of OWC systems, and in particular, that provide distinctive applications for future deployments.

Guest Editors

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Deadline for manuscript submissions

closed (15 July 2025)



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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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