Special Issue

Advances in Hybrid Radio Frequency (RF) and Optical Wireless Communication (OWC) Systems

Message from the Guest Editors

The purpose of this Special Issue is to showcase contributions that address fundamental and practical challenges for the efficient design, analysis, and evaluation of hybrid RF-OWC networks. We would like to invite you to submit original papers, case studies, and reviews that address the challenges and potential of hybrid wireless networks. The topics relevant for this Special Issue include (but are not limited to) the following:

- Network structure design, technical enablers, and business models
- Experimental demonstrations and prototyping
- Mobility-aware access point selection and load balancing
- Multi-user access and handover techniques
- Hybrid MIMO and massive MIMO
- Physical layer security design and evaluation
- Machine learning-enabled physical layer design and re-configuration
- The integration of intelligent reconfigurable surfaces with hybrid networks
- Integration of THz and mmWave communications
- Integration of multiple access techniques with hybrid networks
- Hybrid RF/FSO backhaul in UAV-assisted cellular networks
- Hybrid RF/FSO non-terrestrial networks
- Simultaneous lightwave and RF power transfer

Guest Editors

Dr. Lina Mohjazi

Dr. Hanaa Abumarshoud

Prof. Dr. Sami Muhaidat

Dr. Panagiotis D. Diamantoulakis

Dr. Hany Elgala

Deadline for manuscript submissions

Network

an Open Access Journal by MDPI

Indexed in Scopus
Tracked for Impact Factor

mdpi.com/si/78716

Network
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
network@mdpi.com

mdpi.com/journal/network

Network

an Open Access Journal by MDPI

Indexed in Scopus
Tracked for Impact Factor

mdpi.com/journal/network

About the Journal

Message from the Editor-in-Chief

Network provides full coverage of all topics of interest involved in the networking area. The purpose of this journal is to bring together researchers, engineers, and students from academia and industry to present novel ideas and solid research about the theoretical and practical aspects in the application domains of communications and networks. The primary focus of the journal is on the analysis, modeling, design, simulation, and implementation of networks. This journal will also serve to attract research concerning applying networking architectures and scenarios to emerging research topics such as Internet of Things (IoT), edge computing, distributed ledger technology, among others.

Editor-in-Chief

Prof. Dr. Alexey Vinel
School of Information Technology, Halmstad University, 301 18 Halmstad, Sweden

Author Benefits

Open Access:

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

High Visibility:

indexed within ESCI (Web of Science), Scopus, EBSCO, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 25.9 days after submission; acceptance to publication is undertaken in 4.6 days (median values for papers published in this journal in the second half of 2024).

MDPI