Special Issue

Knowledge-Defined Cloud-Native Networks: Applying AI and Cloud-Native Principles to Next-Generation Wireless Networks

Message from the Guest Editors

The adaption of cloud-native virtualization techniques for wireless network functions using containerization technology such as Docker and the evaluation of AI-enabled microservices networking architecture for next-generation wireless networks, e.g., 5G and beyond, remains unexplored. In other words, minimal research is available. This Special Issue encourages authors from academics and industry to submit their novel contributions related to advancements made in using AI and cloud-native techniques for next-generation wireless technologies.

The topics of interest include but are not limited to:

- Integration of network slicing and MEC
- Application of AI to manage next-generation wireless networks
- Adaption of cloud-native principles for next-generation wireless networks
- Advanced virtualization techniques for wireless networks
- Novel networking architectures
- Cloud-native 5G core
- Application of containers in 5G and beyond wireless networks
- AI for the management of 5G network functions
- MEC services migration
- Network slice mobility
- Connected and autonomous vehicles
- Computational offloading

Guest Editors

Dr. Syed Danial Ali Shah

Dr. Fontes Ramon Dos Reis

Dr. Mark Gregory

Deadline for manuscript submissions

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/162854

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

mdpi.com/journal/sensors

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/journal/sensors

MDPI

About the Journal

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, 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), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)