







an Open Access Journal by MDPI

IoT-Based Cyber-Physical Communication Architecture: Challenges and Research Trends

Guest Editor:

Prof. Dr. Christian Stary

Business Informatics-Communications Engineering, Johannes Kepler University, Altenbergerstraße 69, 4040 Linz, Austria

Deadline for manuscript submissions:

closed (20 February 2023)

Message from the Guest Editor

Internet of Things (IoT) applications and Cyber-Physical Systems (CPS) increasingly propagate into service industries and everyday routines. Their connectivity is key to smart services relying on and controlling cyberphysical devices that enable sensing, collecting, processing, and sharing data. For dynamic and user-centered development, a challenging task is the definition of a communication architecture, as it needs to keep pace with technological progress and transformative needs. The architecture should support a variety of stakeholders, including developers, providers, and consumers. They need to collaborate in design and engineering when trying to meet organizational and technological requirements by a cyberphysical communication architecture.

In this Special Issue, key challenges and opportunities for IoT-based communication architectures and their development are addressed. Of particular interest are cross-cutting concerns, such as privacy, security, distributed intelligence and control, costs, complexity, and explainability. They affect requirement engineering, modeling and design, as well as implementation in distributed sociotechnical settings.













an Open Access Journal by MDPI

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

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.

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 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Contact Us