Special Issue

Emerging Cyber-Physical Systems for Industry 5.0

Message from the Guest Editors

Cyber–physical systems (CPSs) are evolving rapidly, propelled by transformative advances in hardware, software, sensing, connectivity, artificial intelligence, and systems engineering. These emerging technologies and methodologies are not only enhancing performance but enabling a fundamentally new generation of CPS—designed to interact seamlessly with humans, adapt intelligently to their environments, and contribute meaningfully to the complex needs of Society 5.0 and Industry 5.0.   This Special Issue focuses on the design, development, and deployment of next-generation CPSs that are human-centric, creative, and resilient. These systems are expected to operate in rich socio-technical environments, supporting applications that go beyond automation—enabling emotional awareness, co-creation, and collaborative intelligence. In this context, special attention is given to CPSs that can engage with emerging trends such as the feeling economy, where emotional intelligence and affective computing become integral to system design and human–machine collaboration.

Guest Editors

Dr. Anikó Costa

Department of Electrical and Computer Engineering, Faculty of Sciences and Technology, NOVA University of Lisbon, Campus de Caparica, 2829-516 Caparica, Portugal

Dr. Sanaz Nikghadam-Hojjati

CTS-UNINOVA, LASI, NOVA University Lisbon, ISTI-CNR Campus de Caparica, 2829-516 Caparica, Portugal

Deadline for manuscript submissions

30 April 2026

Applied Sciences

Applied Sciences

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)

MDPI