

Special Issue

Advancements in Computer Systems and Operating Systems

Message from the Guest Editor

Computer-based systems are increasingly present in almost all aspects of modern society. Everything is dependent on software running on a device, often controlled by a specifically tailored operating system. This trend is increasing, and new application scenarios are continuously being proposed. This leads to a demand for new types of operating systems, which must support new features for new operational requirements, including security, power management, and device control, etc. At the same time, new applications are being developed, addressing new types of system use, leading to new requirements for operating systems. We are interested in papers presenting advancements in topics including, but not limited to, the following:

- Innovative approaches to new security issues
- Novel applications of generic operating systems
- Power management for IoT and edge computing
- New features for emerging scenarios and operational concerns
- Innovative operating system features for modern applications
- Case studies on innovative use of computer-based and operating systems
- Systematic surveys on new trends and open research issues in computer and operating systems

Guest Editor

Prof. Dr. João Durães

ISEC-Coimbra Institute of Engineering, Coimbra Polytechnic, 3030-199 Coimbra, Portugal

Deadline for manuscript submissions

closed (30 June 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/204451

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

[mdpi.com/journal/
appls](https://mdpi.com/journal/appls)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://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, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)