

## Special Issue

# Machine Learning and Software Intensive Systems: Theory, Methods and Applications

### Message from the Guest Editor

This Special Issue calls for innovative contributions in the theory, methods, and application of machine learning for software-intensive systems (SIS). Topics of interest include but are not limited to the following:

- Challenges of developing, testing, deploying, and maintaining ML-driven SIS;
- Quality requirements for ML-driven SIS;
- Methods and techniques for improving the development process of ML-driven SIS (including ML-based methods and techniques);
- Verification and validation techniques for ML-driven SIS;
- Data(sets) for training ML-based SIS;
- Experiences from developing, testing, deploying, and maintaining ML-driven SIS;
- Risks associated with ML-based SIS;
- Trustworthy ML.

### Guest Editor

Dr. Dusica Marijan

Department of Validation Intelligence for Autonomous Software Systems, Simula Research Laboratory, 0164 Oslo, Norway

### Deadline for manuscript submissions

closed (10 March 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/78197](https://mdpi.com/si/78197)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls-ci@mdpi.com](mailto:appls-ci@mdpi.com)

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





# 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, CAPlus / SciFinder, and other databases.

#### Journal Rank:

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