



Recent Advances in Petri Nets Modeling

Guest Editors:

Dr. Luis Gomes

Department of Electrical and
Computer Engineering, NOVA
School of Science and
Technology, NOVA University
Lisbon, Caparica, Portugal

Prof. Dr. João Paulo Barros

Department of Engineering,
Polytechnic Institute of Beja,
7800-309 Beja, Portugal

Deadline for manuscript
submissions:

closed (31 May 2022)

Message from the Guest Editors

Dear Colleagues,

Petri nets are very suitable to support this interaction as they can graphically specify sequence, concurrency, conflicts, and synchronizations. Petri nets provide a mathematically rigorous language for the construction of models with precise semantics, which can then be simulated and verified with modern computing tools.

This has made Petri nets a well-known formalism widely used in different application areas. In order to tune the models to specific application areas, several extensions of Petri nets have been defined, originating from different classes of Petri nets (e.g., synchronized, colored, timed, object-oriented, continuous).

The main aim of this Special Issue is to seek high-quality submissions addressing original research on Petri net modeling, as well as on topics relevant to distributed and concurrent systems.

The topics of interest include but are not limited to:

- System design and model-driven development using nets;
- Structuring and composability in Petri nets modeling;
- Verification and model checking using nets;
- Others

Website:

https://www.mdpi.com/journal/applsci/special-issues/Petri_Nets





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)