Advanced Model-Based Systems Engineering

Guest Editors:

Dr. Jinzhi Lu

Prof. Dr. Guoxin Wang

Dr. Xiaochen Zheng

Dr. Foivos Psarommatis

Deadline for manuscript submissions:
15 November 2024

Message from the Guest Editors

Dear Colleagues,

Since systems engineering has been widely used in complex system development, advanced model-based systems engineering (MBSE) has emerged as a crucial methodology for managing the complexities of systems which become more and more complex. By employing models as primary artifacts throughout the system lifecycle, MBSE enables a more integrated, efficient, and reliable approach to system design, analysis, and verification. Currently, model-based systems engineering has been proposed with different meanings and definitions and with different modeling languages and frameworks. Thus, this Special Issue aims to identify the nature of model-based systems engineering to explore recent advancements in MBSE methodologies, techniques, tools, and applications, as well as their impact on various domains. Topics of Interest:

- Advanced modeling languages and notations for MBSE.
- Model-based requirements engineering and management.
- …
- Model-based system architecture and design.
- Digital engineering.

For more information, please visit: mdpi.com/journal/systems/special_issues/NF196MSHD3

Special Issue

Editor-in-Chief

Prof. Dr. William T. Scherer
Chair, Department of Systems
and Information Engineering,
University of Virginia,
Charlottesville, VA 22904, USA

Message from the Editor-in-Chief

Systems is a leading venue for the quick and global dissemination of results of cutting-edge research in various areas of systems science and systems-related fields. An increasing number of researchers are realizing the enormous potential of systems thinking in managing the many unprecedented and complex issues in all areas of need. The *Systems* journal provides a home of exceptional quality for the manuscripts of these researchers who often find it difficult to publish their work in conventional discipline focused journals.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SSCI (Web of Science), dblp,
and other databases.
Journal Rank: JCR - Q1 (Social Sciences, Interdisciplinary) / CiteScore - Q2 (*Modeling and Simulation*)

Contact Us