

Special Issue

Advanced Model-Based Systems Engineering

Message from the Guest Editors

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. - Integration of MBSE with other engineering disciplines. - Model-based simulation and verification techniques. - Model-based system architecture and design. - AI enabling techniques for MBSE. - Digital engineering. For more information, please visit: mdpi.com/journal/systems/special_issues/NF196MSHD3

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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.

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