Special Issue

Digital Twin Strategies for Systems Engineering

Message from the Guest Editors

Digital twins (DT) are defined as virtual models of systems where a combination of sensor-based data, advanced analytics, and modeling and simulation techniques are used to replicate the behavior and performance of a system in real-time. This Special Issue summarizes these advances to inform the systems engineering community. Interested topics for submission to be considered in this Special Issue include, but are not limited to, the following:

- DT for system conceptualization and modeling;
- DT for system performance and diagnosis;
- Strategies for promoting traceability;
- DT strategies for system maintenance, testing, verification, and validation;
- Strategies and lessons learned for integrating digital twin technology across the SE lifecycle;
- DT for system visualization in its operational environment:
- Integration of model-based systems engineering (MBSE) methods;
- Models capturing functional and non-functional aspects of systems;
- Integration of simulation tools and sensors to extend system performance.

Guest Editors

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Deadline for manuscript submissions

closed (29 February 2024)



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About the Journal

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.

Editor-in-Chief

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