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Decision Making with Model-Based Systems Engineering

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Message from the Guest Editors

Dear Colleagues,

Model-based systems engineering (MBSE) is an approach to systems engineering that emphasizes the use of models to facilitate system design, analysis, and decision making throughout a system's life cycle. Decision making is a critical aspect of MBSE, as it enables engineers to make informed choices based on the models that they have created.

The role of decision making in MBSE is to use models to evaluate different alternatives and select the best course of action. MBSE models can represent a wide range of system elements, including system requirements, functions, behavior, and performance. By modeling and simulating a system's behavior and performance under different conditions, engineers can use MBSE to evaluate trade-offs and make decisions concerning the best design choices.

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