

Special Issue

Challenges and Recent Advances in Model-Based Engineering for Aerospace

Message from the Guest Editors

The aerospace industry stands at the forefront of technological innovation, continually pushing the boundaries of design, reliability, and performance. One of the most transformative methodologies driving this evolution is model-based engineering (MBE). MBE shifts the traditional approach to system design, enabling engineers to conceptualize, simulate, validate, and optimize complex systems digitally before physical prototypes are ever constructed—the digital twin (DT) concept. This approach enhances collaboration across disciplines, improves design quality, and shortens development cycles—critical benefits in an industry where precision and timeliness are paramount.

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