



From Satellite Systems Design, Verification and Testing to Spacecraft Operations

Guest Editor:

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Message from the Guest Editor

The landscape of spacecraft engineering and satellite operations is rapidly evolving, driven by the increasing sophistication and demands of modern space missions. Today, the design and deployment of spacecraft involve a complex workflow—from initial concept development to in-orbit operations—that requires advanced methodologies and technologies to ensure the success of missions.

Our Special Issue seeks to explore the intricacies of this evolving field. We invite scholars and researchers to contribute their insights and innovations across the spacecraft lifecycle.

In this Special Issue, we welcome research focusing on the design of spacecrafts, encompassing not only the initial phases of satellite system design, but also extending to the verification and testing phases. We are particularly interested in submissions that explore innovative approaches to subsystems and on-board software design, and advanced methodologies for verifying and testing both hardware and software components. We encourage the submission of contributions that discuss digital twin facilities, processor-in-the-loop and hardware-in-the-loop test benches, software solutions that aim to automate and





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Message from the Editor-in-Chief

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