Special Issue

AI/Machine Learning in Aerospace Autonomy

Message from the Guest Editor

This Special Issue focuses on novel methods for applying artificial-intelligence-driven autonomy concepts to the design and execution of guidance, navigation, and control algorithms for aerospace vehicles. Topic areas of interest include the design, application, and implementation of AI technologies towards flight control system design, intelligent path/mission planning, sensor/data fusion and perception, situational awareness, classification and reconstruction, goal-based autonomy, multi-agent tactics development, target-task assignment, human–machine teaming, digital twins and data-driven modelling, model-free guidance and control, AI-driven testing and evaluation, AI hardware and software, dynamic verification and validation, and exploring pathways to the qualification and certification of learning-enabled designs.

Guest Editor

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