

Special Issue

Intelligent Autonomous Control and Decision-Making for Spacecraft

Message from the Guest Editors

In recent years, the growing complexity and diversity of space missions have posed significant challenges to the safety, robustness, and efficiency of spacecraft operations. Traditional ground-in-the-loop control paradigms are struggling to meet the demands for real-time responsiveness and adaptability in unpredictable and dynamic space environments. Consequently, it is imperative to develop advanced capabilities in intelligent perception, autonomous decision-making, and adaptive control, enabling spacecraft to operate with high precision and resilience. The integration of computational intelligence techniques, such as machine learning, deep reinforcement learning, evolutionary computation, and data-driven modeling, into spacecraft guidance, navigation, and control (GNC) systems has emerged as a critical research area.

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