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Intelligent Aircraft-from Navigation to Control, from Fault Diagnosis to Prognostics

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Deadline for manuscript submissions:
closed (20 October 2023)

Message from the Guest Editors

In recent decades, aircraft have witnessed tremendous improvements in terms of their geometric structure, flying mechanism, sensing and vision ability, aviation quality, path planning, intelligent behaviour and adaptability, working methodology, flying features, and navigation control. For space and aviation missions, optimization of flight conditions and safe operation is intrinsically related to guidance, navigation and control systems of the aircraft and includes sensors and actuators monitoring. For upcoming and future aircraft, how the early and robust diagnosis of some small and subtle faults contributes to the overall optimization of aircraft design has become a similar issue. Authors are invited to submit full research articles and review manuscripts addressing (but not limited to) the following topics: Aircraft fault sensing, test, and diagnosis; Aircraft fault prognostics; Intelligent monitoring for aircraft; Aircraft flight control; Aircraft navigation; Intelligent unmanned aerial vehicles; Air transportation networks; Guidance, navigation, and control; Aircraft safety engineering and maintenance; Big data for aircraft safety sensing.

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Message from the Editor-in-Chief

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