Journal of Autonomous Intelligence
Open Access | Online ISSN: 2630-5046
Special Issue

Evolutionary and Collaboration of Human-Computer Interaction for Future Intelligent Aircraft

CITESCORE 1.1 Scopus

Submission Deadline: 2024-01-05

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Dear Colleagues,

Extension of aircraft applications is an emerging research area. Quadrotor is also an extended form of aircraft, through which various applications can be done, like border patrolling, transportation in terrain areas, and healthcare transportation. All such applications require human intervention also to give the feedback to the aircraft in some sense. If the feedback coming from the human is disturbed in some sense like, in case of sensor failure, cyber-attacks, delayed information etc. then the performance of the aircraft will deteriorate. Hence, it is required to have a closed loop robust control system to overcome these drawbacks. Therefore, in this special issue we aim to collect novel ideas on aircraft control using Intelligent control methods. Intelligent control is an emerging area in the field of aircraft control because one can apply this method without knowing the exact dynamics of the system.

Submission to this special issue should demonstrate how human-computer intelligence can be used to control the different types of aircrafts in presence of cyber-attacks, faults, sensor failures etc. Additionally, papers, including the control between different types of aircraft will be appreciated.

Guest Editor
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Keywords:

Fixed Wing Aircraft Control; Vision Augmented Quadrotor Control; Multi-Quadrotor Control; Aircraft Control in Presence of Cyber-Attacks;