Special Issue

Robust Control of Aircraft under Exogenous Disturbances or System Uncertainties

Message from the Guest Editors

Aircraft control has been a subject that has been investigated for years by the researchers of several fields, including airspace, mechanical engineering, computer science, electrical engineering and control. However, interest in developing state-of-the-art techniques to stabilize aircrafts susceptible to realistic uncertainties has grown in recent years. Examples of state-of-the-art cases are multi-rotors with manipulator devices, VTOLs stabilization in hover or even during transition flight mode, fixed-wing under windy conditions and tail-sitters in delivering tasks where the payload considerably changes its flight dynamics. Such novel applications and needs demand a new generation of robust algorithms capable of coping with parameter uncertainties, variation in aerodynamics under different flight regimes, exogenous disturbances and even faulty systems.

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