Special Issue

E-VTOL Simulation and Autonomous System Development

Message from the Guest Editors

The E-VTOL is one of the most promising aspects of the aerospace industry. Moving to zero CO2, low noise emitting flights, scheduled on-demand, and fully integrated into ground transportation are the best ways for the rotorcraft industry to support the demanding change needed by our society. The main challenge impeding this revolution is the need for a complete paradigm shift in corresponding E-VTOL design methodologies. The complicated aerodynamics and dynamics features, influences of novel net-zero power units, autonomous systems able to tackle multiple flight scenarios, and potential conflicts in the Air Traffic Management (ATM) system need to be investigated and upgraded to cope with the challenges derived from the E-VTOL. This Special Issue focuses on the development of research related to the E-VTOL, including aerodynamics, dynamics and vibration, flight dynamics, autonomous systems, and corresponding E-VTOL embedded air traffic management system development.

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