



Mechatronic Systems and Control

CALL FOR PAPERS Special Issue



Intelligent Unmanned Systems and Low Altitude Economy

Aim and Scope

The rapid development of artificial intelligence unmanned aerial vehicles (UAVs) and other intelligent unmanned systems has affected applications in the commercial, civil and military fields. This special issue is to provide a forum for the exchange of information on progress, problems, and future possibilities in these modern areas.

Topics of interest include:

- A. New Low-Altitude Infrastructure
 - Low-altitude communication networks, surveillance, navigation, and micro-meteorology.
 - Infrastructure for low-altitude takeoff and landing, new energy aircraft, and energy systems.
- B. Development of Digital Airspace Systems
 - Intelligent operation and control in low-altitude airspace.
 - Traffic flow management, conflict resolution, and autonomous traffic group operations.
 - Integrated urban low-altitude operations, and drone detection and countermeasures.
 - Information security, aerial autopilot systems.
- C. Development and Design of Low-Altitude Aircraft
 - Low-altitude aircraft design, flight dynamics, and flight control for complex environments.
 - Energy power systems, onboard systems, and intelligent environmental perception and obstacle avoidance.
 - Airworthiness certification, inspection, and diagnostics for low altitude aircraft.
- D. Applications in Low-Altitude Economy
 - Rapid logistics, agricultural and forestry plant protection, emergency rescue.
 - Urban management, 3D transportation, professional inspection, entertainment, and sightseeing.

Important Dates

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