

# Special Issue

## Micro Air Vehicles

### Message from the Guest Editors

This Special Issue welcomes high-quality scientific contributions based on theory and experiments in the domains of novel designs for MAVs, innovative strategies for aerial manipulation, localization, control mechanisms for guidance and navigation of single and multi-MAVs, multi-MAVs collaboration, propulsion mechanisms of MAVs, trajectory planning and tracking, stability characteristics, aerodynamic aspects, and charging methods. Topics of interest include, but are not limited to, the following subject areas:

- Integration of MAVs with other key enabling technologies;
- Dexterous aerial manipulation;
- Propulsion mechanisms of MAVs;
- Mapping, localization, and autonomous navigation;
- Trajectory planning and coverage strategies;
- Obstacles avoidance mechanisms;
- Object detection and tracking, 3D vision methods;
- Reinforcement learning to perform autonomous task;
- Flight test, control, guidance, and stability;
- Robust and adaptive control of MAVs;
- Machine learning for MAVs;
- Structural analysis of MAVs;
- Charging techniques for MAVs;
- Aerodynamic optimization;
- Sensitivity and performance analysis;
- Applications, challenges, and security issues of MAVs.

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### Guest Editors

Dr. Syed Agha Hassnain Mohsan

Dr. Mumtaz Karatas

Dr. Muhammad Asghar Khan

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### Deadline for manuscript submissions

closed (30 November 2022)



## Micromachines

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