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Multi-UAV Systems and Mobile Robots

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Message from the Guest Editors

Nowadays, it is difficult for single-configuration robots to complete efficient tasks in complex multimedia environments. The combination of unmanned aerial vehicle cluster systems and heterogeneous mobile robots such as ocean and land robots has become an important breakthrough in solving the above problems. The combination of multiple unmanned aerial vehicle systems and ocean and land mobile robots has a strong and scalable collaborative ability and a multi-medium and multi-task space.

The implementation of the core functions of the aforementioned intelligent system involves key technologies such as high-performance electronic design, intelligent control, and multi-sensor and multi-information fusion of robot systems, which is closely related to the scope of this journal's submission.

The topics include, but are not limited to the following:

- Advanced modeling and identification of complex robotic systems;
- Ocean/land/air robot system control based on trajectory planning/optimization;
- Mobile robot system control based on intelligent learning;
- Human-robot collaborative control of heterogeneous robot cluster system;

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Message from the Editor-in-Chief

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