

Special Issue

Intelligent Autonomous Decision-Making and Cooperative Control Technology of High-Speed Vehicle Swarms, Volume II

Message from the Guest Editors

Swarm intelligence technology is a new technology combining unmanned system technology, network information technology and artificial intelligence technology, and this has become a research hotspot. Due to the difference in flight dynamics characteristics, the strong uncertainty caused by the large airspace of the flight environment and the fast time-varying cluster topology caused by high dynamics, it is difficult for traditional UAV swarm technology to be directly applied to the cluster system of high-speed vehicles. Therefore, there is an urgent need to study new theories and methods for the cooperative operation of high-speed vehicle swarm systems.

- Swarm distributed situation awareness and cognitive technology;
- Swarm autonomous decision-making method based on decision rule base;
- Swarm collaborative planning technology in a complex environment
- Swarm strike cooperative task planning technology under multiple constraints and strong coupling conditions
- Verification system of key technologies of swarm intelligent planning and autonomous control;
- Other relevant theories, methods, technologies, systems and platforms.

Guest Editors

Prof. Dr. Dong Zhang

School of Astronautics, Northwestern Polytechnical University, Xian 710072, Shaanxi, China

Prof. Dr. Wei Huang

College of Aerospace Science and Engineering, National University of Defense Technology, Changsha 410073, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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