

Special Issue

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

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

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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