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

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# **Message from the Guest Editors**

Dear Colleagues,

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.

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









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## **Editor-in-Chief**

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# **Message from the Editor-in-Chief**

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