



**drones**

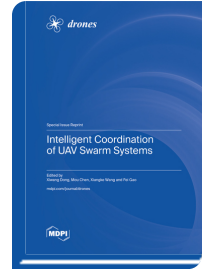


*Special Issue Reprint*

## **Intelligent Coordination of UAV Swarm Systems**

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The reprint delves into the fascinating world of unmanned aerial vehicle (UAV) swarm systems and their intelligent coordination. This comprehensive collection of research papers explores advancements in UAV swarm systems, such as intelligent perception and cognition, swarm navigation and localization, autonomous decision and planning, cooperative guidance and control, and swarm intelligence. UAV swarm systems have gained significant attention in recent years due to their potential for revolutionizing various domains, including surveillance, search and rescue, environmental monitoring, and disaster response. Intelligent perception and cognition play a crucial role in enabling UAV swarm systems to perceive and understand their environment. Swarm navigation and localization techniques ensure precise positioning and effective movement coordination within the swarm. Autonomous decision and planning algorithms empower UAV swarm systems to make intelligent choices in real-time. Cooperative guidance and control strategies facilitate seamless collaboration among individual UAVs within the swarm. Swarm intelligence, inspired by the collective behavior of social insects, offers valuable insights into designing robust and scalable UAV swarm systems.



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