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Intelligent Control of Unmanned Vehicles

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Message from the Guest Editors

Intelligent control of unmanned vehicles is a rapidly evolving field empowered by artificial intelligence (AI). AI plays a crucial role in enabling these vehicles to perceive their surroundings. However, the advancements in AI for unmanned vehicles bring about several considerations, including an increase in hardware requirements and power consumption, the need for cost-effective solutions, and safety concerns, to name a few.

This will Special Issue address the current state of the art, demonstrating the effectiveness of intelligent control algorithms, methods, and systems within the target applications above and providing cross-disciplinary ideas to address current and future challenges.

Topics of interest include, but are not limited to:

- intelligent control architectures;
- perception, decision-making, and action execution of unmanned vehicles;
- hardware requirements and optimizations for efficient implementation;
- cost-effective strategies for integrating AI in unmanned vehicles;
- safety considerations and risk mitigation techniques;
- verification and validation for ensuring reliable operations.

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Message from the Editor-in-Chief

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