

Special Issue

Designing Integrated UAV and Road Transportation Systems for Enhanced Logistics, Safety, and Disaster Resilience

Message from the Guest Editors

The integration of Unmanned Aerial Vehicle (UAV) technology with traditional road transportation is transforming mobility and logistics. UAVs offer unmatched capabilities for rapid response, bypassing obstacles and reaching remote areas, addressing last-mile logistics, emergency supply delivery, and infrastructure monitoring. However, seamless integration into existing systems requires innovative solutions in vehicle engineering, road safety, traffic management, and intelligent systems. This Special Issue invites research on the design, modeling, and implementation of integrated UAV-road systems. We welcome studies focusing on the interaction between aerial and ground vehicles, enhancing network performance, safety, and resilience. We are particularly interested in research using computational methods like Digital Twins, hybrid simulation, AI-driven optimization, and multi-objective decision-making to optimize these systems under uncertainty. We encourage original research, reviews, and case studies with theoretical and practical design implications, especially those with computational experiments, simulation validations, or real-world pilot studies.

Guest Editors

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Message from the Editor-in-Chief

Designs (ISSN 2411-9660) is a peer-reviewed and open access journal which provides a unifying research framework for a wide range of engineering designs of disciplines and industrial applications, including mechanical engineering, electrical engineering, civil engineering, mechatronics, aerospace engineering, bioengineering, energy engineering, industrial engineering and manufacturing systems are of interest. We would like to invite you to contribute to the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

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