

Special Issue

Vehicle Design Processes, 3rd Edition

Message from the Guest Editors

Vehicle design remains one of the most challenging engineering tasks due to high consumer expectations and global competition. Cost-effective and sustainable design is essential, requiring attention to production, operation, recycling, and vehicle dynamics. Lightweight structures, functional performance, high quality, appealing appearance, reliability, and intuitive user interfaces are all demanded. Additional services are increasingly integrated, making design processes complex and multi-domain, with most critical decisions made early. Flaws at this stage can lead to high costs and suboptimal products. Design involves global teams, multiple variants, and legal, safety, and ergonomic considerations. Digital tools for synthesis, analysis, and optimization are crucial, though data diversity and size pose challenges. Design is also linked to scheduling and project management. This Special Issue presents recent research on enhancing tools, integrating digital workflows, and applying AI and big data. We look forward to your contributions.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

In response to economic, political, and environmental pressures, the automotive vehicle community is expanding its research, development, and production of more energysaving, environmentally friendly, and safer ground vehicles through vehicle electrification, powertrain hybridization, high-efficiency drivetrain, autonomous or automated driving, vehicle connectivity, and infrastructure.

Vehicles is a new open access and peer-reviewed international journal that will facilitate rapid publication of scholarly articles on studies related to ground vehicles. Its mission is to publish cutting edge articles, conference proceedings, and to organize Special Issues which highlight outstanding research on specific topics regarding all landbased vehicles with regards to the design, modeling and simulation, manufacture, testing, and operation and modification of those vehicles and their engineering systems.

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