



# SAE EDGE™ RESEARCH REPORTS

**Explore critical advancements.  
Inform strategy.  
Get an edge.**

New from SAE International, SAE EDGE™ Research Reports examine some of the most significant, emerging topics in mobility engineering. Each report is designed to identify critical issues and stimulate further discussion and research around needed frameworks, practices, and protocols.

## **The Most Critical Issues**

SAE EDGE™ Research Reports consider unsettled topics that pose key challenges in areas such as vehicle automation, electrification, unmanned aircraft, IoT and connectivity, cybersecurity, advanced propulsion, and advanced manufacturing.

## **Informed Discussions and New Viewpoints**

Each SAE EDGE™ Research Report provides a structured framework and methodical approach for thinking about and working with rapidly shifting technologies, helping to inform decision-making and strategy.

## **Trusted Expertise**

Benefit from the widest possible variety of perspectives. Each SAE EDGE™ Research Report provides helpful suggestions about avenues of investigation from a broad knowledge base of subject-matter experts across industry, academia, and government.

## **A Framework to Think Through Emerging Topics**

In SAE surveys, engineers consistently cite the need for resources geared toward directing and prioritizing future research. Amidst new and advancing technologies in mobility engineering, SAE EDGE™ Research Reports help engineers sort through challenges and chart a path forward.

# NOW AVAILABLE

## Published Reports

- Unsettled Topics Concerning Sensors for Automated Road Vehicles
- Unsettled Technology Areas in Autonomous Vehicle Test and Validation
- Unsettled Technology Domains in Industrial Metrology
- Unsettled Issues Concerning the Use of Fuel Cells in Electric Ground Vehicles
- Unsettled Topics Concerning Automated Driving Systems and the Transportation Ecosystem
- Unsettled Issues in Determining Appropriate Modeling Fidelity for Automated Driving Systems Simulation
- Unsettled Topics Concerning the Field Testing of Automated Driving Systems
- Unsettled Issues in Balancing Virtual, Closed-Course, and Public-Road Testing of Automated Driving Systems
- Unsettled Impacts of Integrating Automated Electric Vehicles into a Mobility-as-a-Service Ecosystem and Effects on Traditional Transportation and Ownership
- Unsettled Technology Domains in Robotics for Automation in Aerospace Manufacturing
- Unsettled Technology Domains in Aerospace Additive Manufacturing Concerning Safety, Airworthiness, and Certification
- Unsettled Domains Concerning Electric Propulsion Technology for Commercial Aircraft
- Unsettled Domains Concerning Autonomous System Validation and Verification Processes

## Coming Soon

Unlock your competitive edge with research reports on the following unsettled topics:

### Automated and Connected Vehicle Technologies

- Safety and Human-to-Vehicle Interactions
- User Experience and Acceptance
- Automated Driving Systems and Testing Validation
- Insurance, Policy & Legal Challenges
- Data Sharing, Privacy and the Competitive Edge

### Vehicle Electrification

- Ammonia-Based Fuel Cells

### Aerospace Advancements

- eVTOL Applications
- Aircraft Maintenance Credit Programs
- Certification of e-Aircraft
- New Air Traffic Management Systems

### Advanced Manufacturing

- Additive Manufacturing; metals & ceramics
- Human-Robot Automation & Collaboration
- Smart Assembly Tools

Have a critical topic or issue you would like to see explored in an SAE EDGE™ Research Report?  
Please contact us at [EDGEresearch@sae.org](mailto:EDGEresearch@sae.org).

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