



Newly-added

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The following is a summary of all publications added to the SAE Mobilus technical resource platform in September 2023. Click below and the SAE Mobilus search results for the content type selected will populate.

SAE Solutions

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Webinar Series

October 18 2023 | 11 a.m. EST

Meet the Expert: Nina Dwerlkotte

Log in for a LIVE interview to learn about Nina's work in the department of strategic development on smart farming. Here, the whole food supply chain is taken into account to analyze, which standards need to be set today to drive the innovations of tomorrow. The overall aim is to use standardization to contribute to the transformation of agrifood systems.

New to the Movement? [Learn More](#)

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Ongoing Learning Opportunities

[SAE Mobilus Spotlight](#)

December 19, 2023 | 9 a.m. EST

Discover what's new in under 30 minutes.

Discover the latest titles in Safety in Electric Vehicles

Join us for a highlight of the best practices in searching the standards, the latest research, and what organizations are publishing in the field.

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Aerospace Standards & Aerospace Material Specifications

Aerospace Standards and Aerospace Materials Specifications [41]

- [Fused Filament Fabrication Process- Stratasys Fortus 900mc Plus with Type 1, Class 1, Form 1, Grade 0, Natural Color Material for](#)
- [Cybersecurity for Propulsion Systems](#)
- [Guideline for Counterfeit Electrical, Electronic, and Electromechanical \(EEE\) Parts: Avoidance, Detection, Mitigation, and Disposition Systems](#)
- [Aircraft Ground Deicing/Anti-Icing Communication Phraseology for Flightcrew and Groundcrew](#)
- [Titanium Alloy Powdered Metal Products 6Al - 4V Hot Isostatically Pressed, Annealed](#)
- [Grinding of HVOF Sprayed Tungsten Carbide Coatings Applied to High Strength Steels](#)

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Ground Vehicle Standards

Ground Vehicle Standards [18]

- [Digital Communications for Plug-in Electric Vehicles](#)
- [V2X Communications Message Set Dictionary](#)
- [System Theoretic Process Analysis \(STPA\) Recommended Practices for Evaluations of Safety-Critical Systems in Any Industry - Appendix: STPA and Model-Based Systems Engineering \(MBSE\)](#)

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Technical Papers

Technical Papers [57]

- [Thermal System Design for a Fuel Cell Electric Truck](#)
- [Energy Storage Requirements and Implementation for a Lunar Base Microgrid](#)
- [Maintaining and Enhancing Advanced Driver Assistance Systems with Connectivity](#)

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[SAE MobilityRxiv®](#)

This **free online archive and sharing service** provides English-language preprints in the mobility/transportation field, including ground vehicles, commercial vehicles, and aerospace and aviation.

- [A Computational Design Analysis of Scotch Yoke Flapping Steel Structure](#)

[Learn More](#)



Journal Articles

Journal Articles [36]

- [Applications of Neural Networks to Metallic Flexor Geometry Optimization of Flat Wipers](#)

- [Experimentally Validated Neural Networks for Sensors Redundancy Purposes in Spark Ignition Engines](#)
- [A Hybrid Trajectory Planning Approach for Autonomous Rule-Compliant Multi-Vehicle Oval Racing](#)
- [Experimental Assessment of Human and Crash Dummy Skin to Vehicle Air Bag Fabric Coefficients of Friction](#)

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EDGE Research Reports

EDGE Research Reports [4]

- [The Use of eVTOL Aircraft for First Responder, Police, and Medical Transport Applications](#)
- [Automated Vehicles and Infrastructure Enablers: Logistics and Delivery](#)
- [Select Metal Additive Manufacturing in the Mobility Industry: Looking into 2033](#)

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Professional Development

[Introduction to Automated Vehicle Safety: Functional Safety, SOTIF, and Cybersecurity Hazards C1950](#)

In this course, several topics have been assembled to provide the participant an outlook on the nature of automated vehicle safety and as a group, we will attempt to answer the question as to whether an automated vehicle at Level 5 can ever be achieved.

[Lean More](#)

[Applying Automotive EDR Data to Traffic Crash Reconstruction C1210](#)

This course will provide the participant with the skills necessary to analyze EDR data that has already been imaged, apply it to crash reconstruction, and reconcile it with calculations using other data sources.

[Learn More](#)



Book Spotlight



[Fundamentals of Electric Aircraft, Revised Edition](#)

by Pascal Thalin -Aero Mobility , Ravi Rajamani -drR2 Consulting , Jean-Charles Mare -INSA , Sven Taubert - Lufthansa Technik AG

This edition features new illustrations and photographs throughout.

Through tangible case studies, a deep insight is provided into this paradigm shift cutting across various aircraft segments – from General Aviation to Large Aircraft.

Addressing design constraints and timelines foreseen to reach acceptable performance and maturity levels, Fundamentals of Electric Aircraft, Second Edition puts forward a general view of the progress made to date and what to expect in the years to come.

[Read It!](#)



Events

[Energy & Propulsion Conference & Exhibition](#)

November 7-9, 2023 | Greenville SC

This conference is the go-to event for OEMs, suppliers, researchers, engineers, government officials, academics, and other professionals to discover and discuss emerging technologies. Topics will include SI combustion, emission controls and focus on clean propulsion.

[Learn More](#)

[Brake Colloquium & Exhibition – 41st Annual](#)

November 12-15, 2023 | San Antonio TX

Experts from the industry, research institutions and academia convene to share their development and case studies in every critical aspect of braking for ICE, EV including ADAS high levels automated vehicle systems.

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Membership

SAE Membership and Community Engagement Information

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- [SAE Mentor Program](#) – Become an SAE Mentor and share your experience and industry knowledge with the next generation of SAE Members.

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