



## Newly-added

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

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- [Aerospace Standards](#) (41)
- [Aerospace Material Specifications](#) (28)
- [Ground Vehicle Standards](#) (30)
- [Technical Papers](#) (46)
- [Journal Articles](#) (18)
- [EDGE Research Reports](#) (2)
- [Books](#) (1)
- [Magazine Articles](#) (6)

### Additional SAE Solutions

- [Move with SAE Mobilus Webinar Series](#)
- [Professional Development](#)
- [Events](#)
- [Membership & Community Engagement](#)
- [SAE MobilityRxiv®](#)

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## Webinar Series

**April 19, 2023 | 11 a.m. EST**

**Meet an SAE Contributor: Feng Zhu**, Associate Research Professor at The Johns Hopkins University, WCX Technical Paper & Journal Contributor

Log in for a **LIVE** interview to learn more about:

- SAE's WCX Event
- Published Work
- Developments in Lithium-Ion Batteries

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## Aerospace Standards & Aerospace Material Specifications

### Aerospace Standards and Aerospace Materials Specifications [69]

- [Aircraft Ground Deicing/Anti-Icing Training And Qualification Program](#)
- [Circuit Breaker - Aircraft, Trip Free, Push Pull, 3 Phase, 1 Thru 20 Amp, Type 1](#)
- [Fuse, Limiter Type, Enclosed Link, Intermediate Rating, Aircraft](#)
- [Steel Sheet, Strip, And Plate 0.95cr - 0.20mo \(0.33 - 0.38c\) \(Sae 4135\)](#)
- [Titanium Alloy Extrusions And Flash Welded Rings 6al - 6v - 2sn Beta Extruded Plus Annealed, Heat Treatable](#)

- [Heat Treatment Of Aluminum Alloy Raw Materials](#)

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## Ground Vehicle Standards

### Ground Vehicle Standards [30]

- [Engine Oil Pump Performance And Durability Test Procedures](#)
- [Performance Specification For Automotive Wire Harness Retainer Clips](#)
- [Coding Systems for Identification of Fluid Conductors and Connectors](#)
- [Application Protocol and Requirements for Maneuver Sharing and Coordinating Service](#)
- [Electromagnetic Compatibility Measurements Procedure for Vehicle Components - Part 27: Immunity to Radiated Electromagnetic Fields - Mode Stir Reverberation Method](#)

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## Technical Papers

### Technical Papers [8]

- [Aerodynamic Improvements of Non-pneumatic Tires with Hexagonal Spokes](#)
- [Machine Learning Methods to Improve the Accuracy of Industrial Robots](#)
- [Using AADL to Assess Architectural Concerns for Cyber Security](#)

### Top Downloaded AeroTech Technical Papers

- [Numerical Analysis of Battery Thermal Management System Using Passive Cooling Technique](#)
- [A Review of Digital Twin for Vehicle Predictive Maintenance System](#)
- [Hydrogen Fuel System for Aircraft](#)
- [ADAS Sensor Data Handling in the World of Autonomous Mobility](#)
- [Predicting eVTOL Simulator Performance Using Basic Performance Resources](#)

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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.

- [Topological Optimization of Non-Pneumatic Unique Puncture-Proof Tire System \(NPT-UPTIS\) Spoke Design for Tire Performance](#)

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## Journal Articles

### Journal Articles [18]

- [A Method to Estimate Regression Model Confidence Interval and Risk of Artificial Neural Network Model](#)
- [Energy Consumption Simulation for Connected and Automated Vehicles: Eco-driving Benefits versus Automation Loads](#)
- [A Novel Approach for the Frequency Shift of a Single Component Eigenmode through Mass Addition in the Context of Brake Squeal Reduction](#)

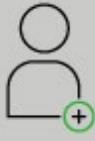
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## EDGE Research Reports

### EDGE Research Reports [2]

- [Decarbonized Fuel Options for Long-haul Commercial Vehicles](#)
- [The Role of Graphene in Achieving e-Mobility in Automotive Applications](#)

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## Professional Development

### [Accident Reconstruction, the Autonomous Vehicle and ADAS. C1869](#)

This course is designed for engineers involved in the investigation and analysis of vehicle crashes who need to understand the field of self-driving vehicles, and how to apply it in a collision reconstruction.

[Learn More](#)



## Book Spotlight



### [Modernizing Product Development Processes: Guide for Engineers](#)

By Jon M. Quigley | Amol Gulve

*Modernizing Product Development Processes: Guide for Engineers* provides a foundation to focus on giving engineers, entrepreneurs, and innovators a guide to developing products with a new approach instead of a traditional product development cycle.

[Read It!](#)



## Events

### [Hydrogen And Alternative Fuels Summit, An SAE Sustainability Event](#)

May2-3, 2023 | Online

This two-day virtual event will bring together mobility and energy experts from around the world to address the latest news, challenges, and opportunities related to hydrogen and other alternative fuels as the world quickly readies itself for a large-scale move away from internal combustion engine (ICE) vehicles.

[Learn More](#)

## [Electric Vehicle Charging Infrastructure Conference, An SAE Sustainability Event](#)

May 16-17, 2023 | Online

Join SAE and more than a dozen state DOTs, along with some of their partners at energy and charging companies as they share practical examples of how they're implementing their respective electric vehicle charging infrastructure.

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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.
- SAE Members are invited to visit us at the [Membership Engagement Lounge](#) during WCX April 18th – 20th.

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