



November 2020 Newsletter

November 2020 Move with SAE Mobilus Newsletter

The following is a summary of all publications added to the SAE Mobilus technical resource platform in October 2020. Selecting a content type below will display the SAE Mobilus search results for the content type selected.

- [SAE Aerospace Standards](#) (49)
- [SAE Aerospace Material Specifications](#) (14)
- [SAE Ground Vehicle Standards](#) (17)
- [SAE Journal Articles](#) (42)
- [SAE Technical Papers](#) (69)
- [SAE EDGE Research Reports](#) (3)
- [SAE Professional Development](#)
- [SAE Books](#)
- [SAE Magazine Articles](#) (114)
- [SAE Membership Information](#)

[Learn more](#) about how SAE is responding to the coronavirus (COVID-19) pandemic.

Please note, your ability to access the publications listed is dependent on your subscription to SAE Mobilus. If a publication is outside of your subscription, please contact your organization's SAE Mobilus administrator.

Move with SAE Mobilus Features a 2-Part Cybersecurity Series

November 18th, 2020 | 11 a.m. EST

Part 1- Unsettled Cybersecurity:

Aharon David will dive into a deeper analysis of the current sets of regulatory documents and their effects on the aviation sector regarding cybersecurity. He looks at the entire aviation ecosystem, the issues, the gaps, inherent dilemmas and methodological uncertainties on the topic.

December 16th, 2020 | 11 a.m. EST

Part 2 – Cybersecurity in Standardization:

We invite **Kirsten Koepsel** to speak more on what to expect in terms of standardization when it comes to the needs within cybersecurity for 2021 and how these processes apply to more than just the aerospace industry, but all sectors within mobility engineering.

Listen & engage in **LIVE Q&A** in this 2-part series spotlighting the **topic of Cybersecurity**. This **FREE** series allows for engineering professionals from all industry sectors and roles to connect with industry leading experts and the SAE team.

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NEW Move with SAE Mobilus Guest Speaker Collection

Watch and share previous guest speaker appearances from the Move with SAE Mobilus series by visiting our SAE International channel below, the Move with SAE Mobilus playlist.

Previous guest speakers and topics include SAE Committee Members diving into the SAE J3300 family of standards, our editor-in-chief for our new STEEP Journal and an author from one of our newest book publications focusing on the SAE AS6500.

Watch Now

SAE Aerospace Standards and Aerospace Material Specifications (63):

- [ARP5543A - Aircraft Wheel Inflation Valves Incorporating an Inflation Pressure Gauge](#)
- [AIR6892 - Structural Health Monitoring Considerations and Guidance Specific to Rotorcraft](#)
- [AIR5744 - Aircraft Thermal Management System Engineering](#)

- [AIR7999 Diagnostic and Prognostic Metrics for Aerospace Propulsion Health Management Systems](#)
- [AS6969A_DA - Data Dictionary for Quantities Used in Cyber Physical Systems](#)

[View All](#)

SAE Ground Vehicle Standards (17):

- [J3198_202010 - Driver Drowsiness and Fatigue in the Safe Operation of Vehicles - Definition of Terms and Concepts](#)
- [J2954_202010 - Wireless Power Transfer for Light-Duty Plug-in/Electric Vehicles and Alignment Methodology](#)
- [J2344_202010 - Guidelines for Electric Vehicle Safety](#)
- [J3067_202010 - Candidate Improvements to Dedicated Short Range Communications \(DSRC\) Message Set Dictionary \[SAE J2735\] Using Systems Engineering Methods](#)
- [J3081_202010 - Heavy Vehicle Controls Prioritization and Conflict Resolution](#)

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SAE Technical Papers (69):

- [2020-01-5093 – Electric Axle Sizing for the Conversion of a Conventional Production Vehicle to a Prototype Battery Electric Vehicle](#)
- [2020-01-5099 – An Electric-Drive to Parallel-Drove Mode Transition Control Strategy for a P2 Hybrid Powertrain](#)
- [2020-01-5092 – A New Framework for Modeling Shock-Turbulence Interactions](#)
- [2020-01-5086 – Modelling of Electric Vehicles Using Matlab/Simulink](#)
- [2020-01-1628 – Changing Properties of Brake Pads and Discs during Brake Testing](#)

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SAE Journal Articles (42):

- [12-03-03-0016 - Future of Autonomous High-Mobility Military Systems](#)
- [01-13-02-0010 – An Investigation on the Electrical Energy Capacity of Cylindrical Lithium-Ion and Lithium Ion Phosphate Battery Cells for Hybrid Aircraft](#)
- [12-03-03-0015 – Integrating Intervehicular Communications, Vehicle Localization, and a Digital Map for Cooperative Adaptive Cruise Control with Target Detection Loss](#)
- [01-13-02-0017 – From the Guantanamo Bay Crash to Objective Fatigue Hazard Identification in Air Transport](#)
- [14-10-01-0001 – Analysis of Connected and Automated Hybrid Electric Vehicle Energy Consumption and Drive Quality](#)

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SAE EDGE™ Research Reports (3):

- [Unsettled Topics Concerning Autonomous Public Transportation Systems](#)
- [Unsettled Topics Concerning Adopting Blockchain Technology in Aerospace](#)
- [Unsettled Issues Concerning the Opportunities and Challenges of eVTOL Applications during a Global Pandemic](#)

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SAE Professional Development:

We provide **high impact, industry-applicable** training programs and credentials specifically designed to advance career development. Our portfolio of hundreds of **classroom, web-delivered, and on-demand online courses** are delivered in the U.S., Europe, and Asia for individuals or as private offerings for groups within companies.

Developed and **taught by more than 150 instructors from industry and academia**, our courses address key technical drivers, technologies, regulations, and business/management topics across the aerospace, automotive, and commercial vehicle industries.

Featured Seminar:

- DO-326A and ED-202A: [An Introduction to the New and Mandatory Aviation Cyber-Security Essentials](#)

Make sure to attend our monthly webinar on November 18, 2020 at 11am EST to hear more from the instructor Mr. Aharon David.

[Browse the Catalog](#)

SAE Books 2020 Bestsellers:

Check out our bestsellers from this year and replay our [August Move with SAE Mobilus](#) guest speaker segment with Sherry Nigam, highlighting all you need to know about SAE books!

- [R-485 McLaren: The Engine Company](#)
- [R-463 Introduction to Advanced Manufacturing](#)
- [R-462 Fundamentals of Electric Aircraft](#)
- [R-474 Diagnostic Communication with Road-Vehicles and Non-Road Mobile Machinery](#)
- [R-469 1D and Multi-D Modeling Techniques for IC Engine Simulation](#)

Interested in Publishing with SAE?

SAE is currently signing authors for 2021 and beyond! Reach out to our publisher, Sherry Nigam (sherry.nigam@sae.org) for more information. You can also watch Sherry's webinar session on "Why Publish with SAE?" [here](#).

[View All Books](#)

SAE Events:

SAE is committed to bringing together global industry experts and we are here to help the mobility industry stay connected during these changing times.

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Upcoming Online & On-Demand Events:

- **Thermal Management Systems** Digital Summit | November 17-18, 2020
[Register](#) to attend free today!
- **ADAS to Automated Driving** Digital Summit | December 8-9, 2020
[Register](#) to attend free today.

Browse our 2020 events and learn more on how to connect with key mobility professionals across the industry, gain access to valuable cutting-edge resources on the advancements in the key technologies and access to hundreds of expert-led panels.

[Browse Events](#)

SAE Membership Information:

Enjoy access to discounted technical resources, career advancement tools, networking opportunities and more as an SAE Member (*Not a member? Join now at [sae.org/join](https://www.sae.org/join)*).

Here's the latest happenings and benefits:

- FREE trial of [Member Connection](#) through November 30, SAE's online discussion platform – join the technical conversations with SAE Members, such as “Buckling failures in steel tube structure” and “Interpretation – AMS2750 raw material v parts.”
- [Virtual Mentor Mixer](#) November 12 - 13: Relationship building and Collaboration: talk about the importance of building relationships across different department and how that can lead to better collaboration.

[Become an SAE Member](#)