

## 8<sup>th</sup> escar USA – Embedded Security in Cars Conference

Online Virtual Event: May 12 – 13, 2021

### Important Dates

**Submission deadline:**

February 15, 2021

**Acceptance notification:**

April 5, 2021

**Final paper/presentation slides due:**

May 3, 2021

### Steering Committee

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### Program Committee

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 Ira McDonald, High North  
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 Hisashi Oguma, Toyota ITC  
 David Oswald, University of Birmingham  
 Jonathan Petit, Qualcomm  
 Anuja Sonalker, STEER  
 Alan Tatourian, Intel  
 Eric Thayer, AIS  
 Alexander Tschache, VW  
 Andre Weimerskirch, Lear Corporation  
 Mike Westra, Ford  
 Lars Wolleschensky, Lear Corporation

### Program and Registration Information

Complete program and registration information will be available at <https://www.escar.info/escar-usa.html>

### Overview and Topics

Information technology has become the driving force behind most innovation in the automotive industry, supporting connectivity, infotainment, and automation applications. The situation is similar for commercial vehicles.

A crucial aspect of most automotive electronic applications is cybersecurity. The escar conference series, held annually in Europe, the USA, and Asia, has established itself as the premier forum for information, discussion and exchange of ideas on all aspects of vehicle cybersecurity and privacy. As in previous years, the program will include invited talks, but we will accept submitted papers and presentations in automotive cybersecurity, including but not limited to the following areas:

- Cybersecurity-related engineering, formal methods, software assurance, development & validation, and security standardization
- Cybersecurity of sensors and cyber-physical systems
- Design of resilient vehicle architectures and applications
- Privacy and data protection issues in vehicular settings
- Vehicular hardware security and hardware security modules
- Security of vehicular communications (on-board, passenger, and V2X)
- Vehicle cyber intrusion detection systems, forensics, and incident response
- Security of legally mandated applications (e.g., event data recorder, ELDs, tachograph)
- Security of automotive cloud-based infrastructure
- Security economics and metrics
- Security of vehicle theft prevention and theft response solutions
- Vehicle-related fraud and data tampering (odometer, warranty fraud, etc.)
- Security of vehicular rights control and audit (e.g., feature activation)
- Cybersecurity for Autonomous Vehicles
- Security of vehicular Position, Navigation, and Timing
- Security aspects of self-driving vehicle sensing systems
- Security implications of AI used in a vehicle context
- Electric vehicle charging security
- Cybersecurity of commercial vehicles
- Automotive reverse engineering and penetration testing
- Security of vehicle-driven business, maintenance, and service models
- Legal aspects of automotive cybersecurity

### Instructions for Paper Submission

Theoretical/scientific articles, case studies and descriptions of real-world experience are welcome. All submissions will be double-blind peer-reviewed. Two types of submissions will be accepted:

*Full papers of up to 15 pages:* This can be, for example, new research results, case studies, or state-of-the-art reports. The value to the escar community should be clearly demonstrated.

*Extended abstracts of 3 or more full pages:* This category is geared towards contributions from industry and government. These will consist of a presentation only - no full paper will be required. The abstract must be at least 3 full pages and should clearly outline the content of the planned presentation and its value to the escar community.

**Important Note 1:** Extended abstracts of less than 3 full single-spaced pages will be rejected without review. Marketing driven submissions and submissions that lack details to enable a review were not well received and almost always rejected in the past.

**Important Note 2:** For both submission types the text must be in English with a font size of at least 10pt. **Submissions must be anonymous with no identifying features on the submissions (such as obvious references).**

**Important Note 3:** Please ensure that you are able to provide the final presentation slides by the deadline listed above.

Submissions must be in PDF format and will be accepted at escar's submission site: <https://easychair.org/conferences/?conf=escarusa2021>