escar
Embedded Security in Cars

UNVEILING THE LATEST IN AUTOMOTIVE CYBERSECURITY

June 5-6, 2024
Saint John's Resort
Plymouth, Michigan

Hosted By:

eTAS

CALL FOR PAPERS

EXTENDED

SUBMISSION DEADLINE	ACCEPTANCE NOTIFICATION	FINAL PAPER/SLIDES DUE
February 12, 2024	April 1, 2024	May 20, 2024

Overview and Topics

Information technology has become the driving force behind most innovation in the automotive industry, supporting connectivity, infotainment, software-defined vehicles (SDVs), 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 usual, the 2024 program will include invited talks and accepted papers and presentations in automotive cybersecurity, including but not limited to:

- Cybersecurity for autonomous vehicles
- 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
- Electric vehicle charging security
- Cybersecurity of commercial vehicles
- Legal aspects of automotive cybersecurity
- Security economics and metrics
- Cybersecurity process and regulations
- Security of vehicular communications

- 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 of vehicle theft prevention and theft response solutions
- Vehicle-related fraud and data tampering (e.g., odometer, warranty fraud, etc.)
- Security of vehicular rights control and audit (e.g., feature activation)
- Security of vehicular position, navigation, and timing
- Security aspects of self-driving vehicle sensing systems
- Security implications of AI used in a vehicle context
- Automotive reverse engineering and penetration testing
- Security of vehicle-driven business, maintenance, and service models
- Cybersecurity-related engineering, formal methods, software assurance, development and validation, and security standardization
- Tools to support development and security of vehicles and modules
- Application Programming Interface (API) vulnerabilities
- New standards and regulations (e.g.,ISO/SAE 21434 and UNECE WP.29 R155/R156)

June 5-6, 2024
Saint John's Resort
Plymouth, Michigan

escar
Embedded Security
in Cars

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 (up to 15 pages): These 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.

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

Important Notes:

· Do not submit if you are unable to provide final presentation slides by the posted deadline.
· Extended abstracts of less than 3 full single-spaced pages will be rejected without review.
· We reserve the right to reject marketing-driven submissions and submissions that lack enough details to warrant a review.
· Submissions must be single-spaced, in English with a font size of at least 10 point, anonymous (no identifying features such as obvious references) and in a PDF format.

Submissions must be in PDF format and will be accepted at escar's submission site:
https://easychair.org/conferences/?conf=escarusa2024

Steering Committee

· Thomas Forest, General Motors, tom.m.forest@gm.com
· Kevin Harnett, IoActive, Inc. kevin.harnett@ioactive.com
· Rob Lambert, ETAS Canada, robert.lambert@etas.com
· André Weimerskirch, Lear Corporation, aweimerskirch@lear.com

Program Committee

Our program committee consists of cybersecurity experts with varied expertise from industry, government, and academia.

To see the list, visit escar.info/escar-usa/program

escar

Embedded Security
in Cars

CALL FOR PAPERS
FREQUENTLY ASKED QUESTIONS

Q: Does my submission have to cover one of the provided topics?
A: No, the list of topics is not comprehensive, but rather a sampling of topics that would be appropriate for the highly technical agenda we create each year. We encourage and will gladly review submissions focused on any topic that would be of interest to automotive cybersecurity professionals.

Q: What kind of submissions are accepted?
A: We are looking for theoretical/scientific articles, case studies and descriptions of real-world experience. Two types of submissions will be accepted:

- Full papers (up to 15 pages): These can be new research results, case studies or state-of-the-art reports, etc. – the value to the escar community must be clearly obvious/demonstrated.

- Extended abstracts (3 or more pages): Presentation only – no paper required – should clearly outline the content and value to the escar community. Geared toward contributions from the industry and government.

Submissions with a promotional/marketing focus and/or lacking requested detail (i.e., value to community) will be rejected.

Q: Is there a preferred format for my submission?
A: All submissions, whether for a paper or presentation, must be written in English, single-spaced in at least a 10-point font size and saved as a PDF file. Submissions must be anonymous with no obvious references that would indicate authorship or institutional affiliation.

Q: What are the key criteria submissions are evaluated on? (i.e., what are the reviewers looking for in a submission)
A: The key criteria include relevant topics (e.g., applicability to practical implementations, new vulnerabilities and counter-measures, trends, summaries, new directions), novelty and innovation, value to the escar audience, technical accuracy, clarity, and good writing.

Q: What is the review process (steps and timing)?
A: Once the submission deadline (Feb. 5) occurs, the escar Steering Committee forwards submissions to members of the Program Committee. Each submission is double-blind, peer reviewed. Upon completion of the Program Committee's review, invitations to speak at 2024 escar USA will be sent to individuals – this is targeted to occur April 1. Final papers/presentation slides are due to the escar organizers by May 20.

June 5-6, 2024
Saint John's Resort
Plymouth, Michigan

escar
Embedded Security ▪
in Cars ▪

Q: Does a paper/presentation submitted need to be exclusive to escar USA?
A: No, papers and presentations submitted to or presented at 2024 escar USA may be or have been submitted to or presented at other cybersecurity events.

Q: How technical should my paper/presentation be?
A: escar USA is a highly technical conference, attended by individuals currently working or pursuing a career in automotive cybersecurity. Information presented should be technical in nature, not a high-level overview of a topic.

Q: Who reviews my submission?
A: Submissions are double-blind, peer reviewed by members of the escar Program Committee that includes individuals from a variety of disciplines and companies — automotive OEMs, suppliers, colleges/universities, government and consultants.

Q: Who attends the event?
A: escar USA brings together individuals from industry (e.g., OEMs, suppliers, vendors), academia and government organizations. Attendees and speakers represent experts in the automotive cybersecurity industry.

Q: Where do I send my submission?
A: Single-spaced, 10-point minimum font, PDF files in English can be submitted via the escar submission site, https://easychair.org/conferences/?conf=escarusa2024. You will need to create an EasyChair account to submit your paper/presentation.

Q: Where can I download the papers and presentations after the event?
A: Once author permission has been received, the accepted papers and presentations from escar USA are available in the Downloads section of the main escar web site (https://www.escar.info/downloads.html). This area is password protected; access requires a free signup on the site (conference attendance is not necessary to access the materials).