

Wednesday, November 11<sup>th</sup> 2020

08:30 – 09:00 Registration Workshop Participants

09:00 – 12:00 Workshop Session

**Automotive Privacy Engineering**  
Christoph Bösch

**Introduction to Automotive Cyber Security**  
Jan Pelzl

**Introduction to Automotive Security Testing**  
Martin Moser

12:00 – 13:00 Lunch

**Official begin of 18<sup>th</sup> escar Europe conference**

13:00 – 13:15 **Chairman's welcome and opening address**

13:15 – 13:30 **Welcome Address**

13:30 – 14:15 **Keynote**

**Securing the Critical Rail Infrastructure – Challenges and Solutions**  
Stefan Katzenbeisser

**Session I – Secure ECUs**

14:15 – 14:45 **BAM BAM!! On Reliability of EMFI for in-situ Automotive ECU Attacks**  
Colin O'Flynn

14:45 – 15:15 **Security event auditing of infotainment and communications control: implementation approaches**  
Karina Dorozhkina

15:15 – 15:45 **Software-based self-testing for the authentication of car components**  
Frank Schuhmacher

15:45 – 16:30 Coffee Break

16:30 – 17:00 **Invited talk**  
**Bug Bounty and Automotive**  
Brian Gorenc

**Session II – Attacks and Response**

17:00 – 17:30 **Global Automotive Cybersecurity 2020: Understanding Cyber-Attack Trends In The Smart Mobility Ecosystem**  
Yonatan Appel

17:30 – 18:00 **Securing Phone as a Key Against Relay Attacks**  
Paul Staat

18:00 – 18:30 **CANnon: Breaking CAN with Software-Based Clock Control**  
Sekar Kulandaivel



**Brian Gorenc**  
Sr. Director of Vulnerability Research,  
Zero Day Initiative  
Trend Micro



**Stefan Katzenbeisser**  
Professor  
University of Passau



**Arne Schönbohm**  
President  
Federal Office for Information Security

Thursday, November 12<sup>th</sup> 2020

09:00 – 09:30 **Invited Talk**

**Long-Term Secure Cryptography for Automotive Systems**  
Tim Güneysu

**Session III – Cryptography**

09:30 – 10:00 **Post quantum cryptography in automotive**  
Efsthia Katsigianni

10:00 – 10:30 **Quantum Safe Authenticated Key Exchange Protocol for Automotive Application**  
Thomas Pöppelmann

10:30 – 11:15 Coffee Break

**Top Speaker**



**Sebastian Fischmeister**  
Professor and NSERC/Magna Industrial  
Research Chair in Automotive Software for  
Connected and Automated Vehicles  
University of Waterloo



**Tim Güneysu**  
Professor, Head of the chair  
for Security Engineering  
Ruhr-University Bochum



**André Weimerskirch**  
Vice President Cybersecurity  
and Functional Safety  
Lear Corporation

**Session IV – Privacy**

11:15 – 11:45 **Buckle-up: Autonomous Vehicles could face Privacy Bumps in the Road Ahead**  
Ioannis Krontiris

11:45 – 12:30 **Keynote**

**Challenges for Safety and Security in Connected and Automated Vehicles**  
Sebastian Fischmeister

**Session V – Secure Communication**

12:30 – 13:00 **Expert's Discussion: escar 2025: Challenges for Securing Future Transportation?**  
Frank Kargl, Sebastian Fischmeister,  
Markus Ullmann, Tobias Brennich

13:00 – 14:00 Lunch

14:00 – 14:30 **Invited Talk**

**Product Security from the Perspective of a Supplier**  
André Weimerskirch

**Session VI – Secure Processes**

14:30 – 15:00 **Road To Type Approval**  
Moritz Minzlaff

15:00 – 15:30 **Modeling Cyber Security Risks for ISO/SAE 21434**  
Dirk Leopold

15:30 – 16:00 **Incident Response for Vehicular Systems – More than online Updates**  
Falk Langer & Lukas Stahlbock

16:00 – 16:15 **Outlook and closing remarks by the Chairman**

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