

# **The World's Leading Automotive Cyber Security Conference**



## Wednesday, November 11th 2020

08:30 - 09:00**Registration Workshop Participants** 

**Workshop Session** 09:00 - 12:00

**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 18th 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

**BAM BAM!! On Reliability of EMFI** 14:15-14:45 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

Thursday, November 12th 2020

09:00-09:30 Invited Talk

Long-Term Secure Cryptography for Automotive Systems

Tim Güneysu

Session III - Cryptography

09:30 - 10:00Post quantum cryptography in automotive

Efstathia Katsigianni

10:00 - 10:30 Quantum Safe Authenticated

Key ExchangeProtocol 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 VI - Secure Processes

Session IV - Privacy

11:15 – 11:45

11:45 - 12:30

12:30 - 13:00

13:00 - 14:00

14:00 -14:30

Road To Type Approval 14:30 - 15:00 Moritz Minzlaff

15:00 - 15:30 Modeling Cyber Security Risks for ISO/SAE

Buckle-up: Autonomous Vehicles could

face Privacy Bumps in the Road Ahead

Challenges for Safety and Security in

Expert's Discussion: escar 2025: Challen-

ges for Securing Future Transportation?

**Product Security from the Perspective** 

Frank Karal, Sebastian Fischmeister.

Markus Ullmann, Tobias Brennich

**Connected and Automated Vehicles** 

Ioannis Krontiris

Sebastian Fischmeister

Keynote

Session V - Secure Communication

Lunch

**Invited Talk** 

of a Supplier

André Weimerskirch

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



15:45 - 16:30

16:30 - 17:00

17:00 – 17:30

17:30 - 18:00

18:00 - 18:30

Coffee Break

Invited talk

Brian Gorenc

Yonatan Appel

**Attacks** 

Paul Staat

**Clock Control** 

Sekar Kulandaivel

**Session II - Attacks and Response** 

**Bug Bounty and Automotive** 

Global Automotive Cybersecurity 2020:

**Understanding Cyber-Attack Trends In** 

Securing Phone as a Key Against Relay

The Smart Mobility Ecosystem

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

CANnon: Breaking CAN with Software-Based



Stefan Katzenbeisser Professor University of Passau



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



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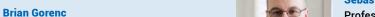
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Sr. Director of Vulnerability Research, Zero Day Initiative

University of Passau

Trend Micro

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Coffee Break

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# Tim Güneysu

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



### **André Weimerskirch**

Vice President Cybersecurity and Functional Safety Lear Corporation

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Ioannis Krontiris

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