







The Venue

We are looking forward to welcoming you in Stuttgart, Germany! The 17th escar conference will take place at the International Congresscenter Stuttgart (Messe Stuttgart):

Landesmesse Stuttgart GmbH **ICS International Congresscenter Stuttgart**

Messepiazza 1, 70629 Stuttgart, Germany



europe.escar.info



369.00 EUR*

949.00 EUR*

*plus 19% VAT

Tickets

Student (age limit: 27 years) Regular

Each Ticket includes:

- Get together with welcome drink and snack
- Social program: Airport Tour
- Conference dinner at the Mövenpick hotel
- Lunch & coffee breaks
- Conference proceedings



Contact

Henning Frohn Conference Manager +49 (0)234 927 898-19 frohn@is-its.org

Organiser:

isits AG International School of IT Security Huestr. 30, 44787 Bochum, Germany

Sponsors



































The World's Leading Automotive Cyber Security Conference





Main Topics

- 2 keynote speakers, 3 invited talks
- More than 10 reviewed presentations & poster sessions
- For the first time in escar history there will be 2 workshops & 2 tutorials
- Exchange of the most recent insights on **Automotive Cyber Security**
- Connect with international experts from industry, academia and government

Top Speaker



Amit Elazari Bar On Intel Corporation UC Berkeleyis School of Information Master

Organizer:

of IT Security AG



Sebastian Faust Technical University of Darmstadt



Jonathan Petit Qualcomm Technologies, Inc.



Timo Winkelvos Volkswagen AG



Albert Held

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Conference Program

Tuesday, November 19th, 2019

16:45-17:15

08:30-09:00	Registration Workshop Participants			
09:00-12:00	Workshops, Tutorials, Social Event			
12:00 -13:30	Lunch			
Official begin of 17th escar Europe conference				
13:30 -13:45	Chairman's welcome and opening address			
13:45 -14:30	Keynote			
	Legal Aspects of Vulnerability Disclosure and Bug Bounties and Regulatory Trends Amit Elazari Bar On			
Session I – Security Management and Post-Quantum Crypto				
14:30-15:00	Establishing an Automotive Cyber Defense Center Falk Langer, Fabian Schueppel and Lukas Stahlbock			
15:00 –15:30	Post-Quantum Key Exchange Mechanism for Safety Critical Systems Tim Fritzmann, Jonas Vith and Johanna Sepulveda			
15:30 – 16:15	Coffee Break			
16:15 –16:45	Invited talk			
16:15 –16:45	Invited talk Blockchain Technology: Hope, Hype, High-Tech Sebastian Faust			

Application-aware Intrusion Detection:

A Systematic Literature Review and

Implications for Automotive Systems

David Schubert, Hendrik Eikerling and

Jörg Holtmann

17.45 10.15	rative-Intelligent Transportation Systems Jan Trauernicht and Norbert Bißmeyer
17:45 – 18:15	Intrusion Detection and Prevention System for FlexRay against Spoofed Frame Injection Takeshi Kishikawa, Ryo Hirano, Yoshihiro Ujiie, Tomoyuki Haga, Hideki Matsushima, Kazuya Fujimura and Jun Anzai
19:30 − ∞	Dinner at
19:30 − ∞	Dinner at MÖVENPICK HOTEL STUTTGART AIRPORT Flughafenstraße 50 70629 Stuttgart Germany

Deterministic Sybil Attack Exclusion in Coope-



Social Program: Enjoy an exclusive airport tour at the Stuttgart Airport!

Taking place: November 19th, 10:00 am - 12:00 am

The social program is held parallel to our workshops and tutorials and is not overlapping with the presentations. For more information please visit **europe.escar.info**

Wednesday, November 20th 2019

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09:00-09:45	Keynote	14:30-15:00	Invited talk
	Automated Driving Security Jonathan Petit		UN Regulation Automotive Cybersecurity Albert Held
Session III - S	Safety and Security	Session V - (I	n-)Secure Boot
09:45 – 10:15	Safety Goals in Vehicle Security Analyses – A Method to Assess Malicious Attacks with Safety Impact David Förster, Claudia Loderhose, Thomas Bruckschlögl and Franziska Wiemer	15:00-15:30	Secure Boot Revisited: Challenges for Secure Implementations in the Automotive Domain Liron Kaneti, Steffen Sanwald, Marc Stöttinger and Martin Böhner
10:15 - 10:45	The Challenge of being Safe and Secure – Designing Process Interfaces between Safety and Security Joachim Graf, Juergen Klarmann, Claudia Loderhose and Franziska Wiemer	15:30 – 16:00 16:00 – 16:15	Insecure Boot Andrea Barisani Outlook and closing remarks by the Chairman
10:45-11:30	Coffee Break		
11:30 –12:00	Invited talk	Additional Workshops and Tutorials Taking place November 19 th , 09:00 am – 12:00 am Our workshops and tutorials are held parallel to our social program and are not overlapping with the presentations.	
	Volkwagen Vehicle Key Management System – Key to Cryptography in Cars: Challenges, Requirements, Solution Timo Winkelvos		
Session IV – Securing Onboard Communication 12:00 – 12:30 Introducing HSM-based secure on-board		Workshop 1: Practical In-Vehicle Communications Hacking Henrik Ferdinand Nölscher, Javier Vazquez	

13:00 – 14:30 Lunch & Poster & Exhibition

Workshop 2: Hands on Cryptography – A Practical Tutorial to

Prof. Dr.-Ing. Jan Pelzl

E/E Security in Cars

Ramona Jung

Systems

Tutorial 1:

Tutorial 2:

Encryption, Digital Signatures, and Certificates

Implementing Cybersecurity Management

Jan-Felix van Dam & Moritz Minzlaff