Conference Program

Tuesday, November 15th 2022

09:00 – 12:00	**Workshop Sessions**

Know your risk: ISO/SAE 21434 compliant Threat Analysis and Risk Assessment supported by CycurRISK
Lena Steden

I want it all, I want it now: Software-defined Car, Hardware-rooted Security
Ferdinand Brasser, Patrick Jauernig, Emmanuel Stapf

12:00 – 13:00	Lunch

Official begin of the 20th escar Europe conference

13:00 – 13:15	**Chairman's welcome and opening address**
13:15 – 14:00	**Keynote**

20 Years of Automotive Security: From Digital Tachographs to Hardware Trojans
Christof Paar

Session I – Threat Analysis and Approval

14:00 – 14:30	**A supplier's perspective on threat analysis and risk assessment according to ISO/SAE 21434** Simon Greiner, Maike Massierer
14:30 – 15:00	**Risk Assessment for Threats posed by Cryptographically Relevant Quantum Computers** Andreas Müller, Alexandre Berthold
15:00 – 15:30	**The road to AV approval – A Cybersecurity Perspective** Christa Budke, Mohamed Fares Abid
15:30 – 16:30	Coffee Break

Please use the following link to download all papers:
https://www.escar.info/downloads.html

Session II – Artificial Intelligence and Machine Learning

16:30 – 17:00	**Feasibility of Adversarial Attacks on Real-World Lane Detection Systems** Gabriel Geck, Dominik Fisch
17:00 – 17:30	**Scalable and Confidential Deep Learning for Automotive Video and Image Data** Stefan Gehrer, Moritz Eckert
17:30 – 18:00	**Machine Learning and Artificial Intelligence boosting Automotive Threat Intelligence** Cosimo Senni Guidotti Magnani

Conference Dinner

18:30 – 22:00	**Radisson Collection Hotel** Room: Nikolai 1 Karl-Liebknecht-Straße 34 10178 Berlin
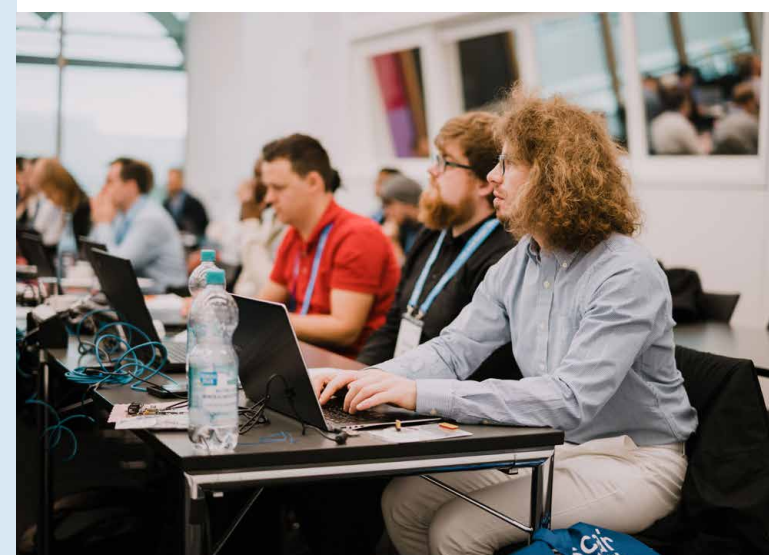
Wednesday, November 16th 2022

09:00 – 09:45	**Keynote**

The Cybersecurity Policy Landscape and How it Impacts You
Amit Elazari Bar On

Session III – New Challenges

09:45 – 10:15	**Tales from a Penetration Testing Team** Amit Geynis
10:15 – 10:45	**Boosting Test Efficiency with Fuzz Testing within a Unit Test Environment** Markus Dreher
10:45 – 11:30	Coffee Break

Session IV – Security Testing

11:30 – 12:00	**Long-Term Software Maintenance – A New Challenge for the Automotive Industry** David Förster
12:00 – 12:30	**Silently Disabling ECUs and Enabling Blind Attacks on the CAN Bus** Matthew Rogers
12:30 – 13:00	**Scalable attacks on Connected Vehicles – The forgotten ones** Ramiro Pareja Veredas, Yashin Mehaboobe
13:00 – 14:00	Lunch

Session V – Secure Systems and Architectures

14:00 – 14:30	**A Secure Hardware-based Online Vehicle Registration System** Felix Kußmaul
14:30 – 15:00	**Post-Quantum Secure Boot on Vehicle Network Processors** Joost Rennes
15:00 – 15:30	**Cyber Security for Future Zonal E/E Architectures** Ramona Jung
15:30 – 15:45	**Outlook and closing remarks by the Chairman**