

Tuesday, November 5th

09.30 Welcome

apl. Prof. Dr. habil. Mario Trapp, Fraunhofer-Institut für Eingebettete Systeme und Kommunikationstechnik ESK, München

Norms & Standards

09.40 ISO 21448 "SOTIF": current status

Nicolas Becker, PSA Groupe, Montbéliard Cedex

10.00 What does SOTIF have to do with fully automated driving? // Was hat SOTIF mit vollautomatisiertem Fahren zu tun?

Dr. Simon Rößner, Senior Expert Functional Safety, TÜV SÜD Auto Service GmbH, Munich

10.40 ☕ Coffee break

Functional Safety & highly automated driving

11.20 Item definition and PMHF budgeting for automated driving functions // Positionsdefinition und PMHF-Budgetierung für automatisierte Fahrfunktionen

Carsten Gebauer, Center of Competence Functional Safety, Robert Bosch GmbH

12.00 Comparison of hazard analysis methods with regard to the series development of autonomous vehicles // Vergleich von Gefährdungsanalyseverfahren im Hinblick auf die Serienentwicklung autonomer Fahrzeuge

Greta Kölln, Doktorandin, BMW Group, Munich

12.40 🍽️ Lunch

02.00 Agile approach to sensors for safe autonomous driving

Rolf Johansson, Safety Guy, Autonomous Intelligent Driving GmbH, Gothenborg, Sweden

Dr. Håkan Sivencrona, Safety Guy, Qamcom Research and Technology, Gothenborg, Sweden

02.40 Keep driving safe by ensuring fail operational power supply for future vehicle applications // Fahrsicherheit durch fail operational Spannungsversorgung für zukünftige Fahrzeuganwendungen

Armin Köhler, Doktorand, Systems Engineering / Functional Safety - Automotive Electronics, Robert Bosch GmbH, Stuttgart

Patrick Münzing, System Engineer / Functional Safety, Automotive Electronics, Robert Bosch GmbH, Stuttgart

03.20 Positive risk balance as one of the legal requirements for the approval of highly automated driving // Positives Risikoverhältnis als eine der gesetzlichen Voraussetzungen für die Zulassung hochautomatisierten Fahrens

Peter Krumbach, Funktionale Sicherheit Gesamtfahrzeug, BMW Group, Munich

Dr. Lars Schnieder, Director Assessment Service Center, ESE Engineering und Software Entwicklung GmbH, Braunschweig

04.00 Coffee break

04.40 **An Automotive Approach to STPA Built on Top of Proven Solutions // Ein Automotive-Ansatz für STPA, der auf bewährten Lösungen aufbaut**

Bernhard Kaiser, ANSYS Inc., Canonsburg, USA

Marc Born, ANSYS medini Technologies AG, Berlin

Jean-Louis Camus, Esterel Technologies, Toulouse, France

Special

05.20 **Systems engineering of applications in the field of securing power distribution networks using electronic fuses (eFuse) // Systems Engineering für Lösungen zur Absicherung von Energieverteilungsnetzen mittels elektronischer Sicherung (eFuse)**

Berthold Sopper, Systemingenieur, Functional Safety Engineer, Systemtechnik LEBER GmbH & Co. KG, Schwaig

06.00 **Closing words and reception with drinks in the exhibition area**

07.00 **Get together – Dinner**

It's our pleasure to invite you to a dinner at the conference location. Continue your conversations in a pleasant atmosphere with speakers and participants and enjoy an artistic performance during the evening.

Wednesday, November 6th

Safety Analysis

08.30 **Systematic identification of functional insufficiencies by means of component fault trees // Systematische Identifikation von funktionalen Unzulänglichkeiten anhand von Komponentenfehlerbäumen**

Dr. Rasmus Adler, Embedded Systems Quality Assurance, Dr. Daniel Schneider, Department Head Embedded Systems Quality Assurance, Fraunhofer-Institut für Experimentelles Software Engineering, Kaiserslautern

09.10 **Tailoring of dependent failure analyses (DFA) // Massschneidern von Dependent Failure Analysen (DFA)**

Dr. Pierre Metz, Senior Expert Functional Safety, Brose Fahrzeugteile GmbH & Co. KG, Würzburg

Dr. Adam Schnellbach, Lead Engineer Safety Methods and Analyses, AVL List GmbH, Graz, Austria

09.50 **Safety analysis of software updates over-the-air // Sicherheitsanalyse von Softwareupdates over-the-air (OTA)**

Dr. Oliver Kust, Senior Consultant RTA Solutions, ETAS GmbH, Stuttgart

10.30 Coffee break

11.00 **Application of a safety analysis on software architectural level: A case study with HAZOP analysis // Anwendung einer Sicherheitsanalyse auf Softwarearchitekturebene: Eine Fallstudie mit HAZOP-Analyse**

Dipl.-Ing. Christian Bayer, Senior Manager, Head of Standardization, Quality & Standards Management,

Elektrobit Automotive GmbH, Erlangen

Dr. Thomas Liedtke, Principal, KUGLER MAAG CIE GmbH, Kornwestheim

11.40 Live-TED and Panel discussion: Integrated protection of networked vehicles

Moderation: apl. Prof. Dr. habil. Mario Trapp, Fraunhofer ESK

12.30  Lunch

Concepts for innovative technologies

01.30 Challenges in developing a safe high performance computing platform //

Herausforderungen bei der Entwicklung einer sicheren Hochleistungs-Computing-Plattform

Bitan Roy, Domänenintegration Integration Fahrwerk, Dr. Ing. h.c. F. Porsche AG, Weissach

02.10 Product safety - Challenges and chances creating an overarching safety concept

**incorporating ALL safety aspects // Produktsicherheit - Herausforderungen und Chancen
bei der Erstellung eines übergreifenden Sicherheitskonzeptes mit ALLEN**

Sicherheitsaspekten

Dr. Simone Hamerla, Product Safety Assessor, HELLA GmbH & Co. KGaA, Lippstadt

**02.50 Flight Safety Certification Implications for Complex Multi-Core Processor based Avionics
Systems**

Jyotika Athavale, Principal Engineer, Senior Functional Safety Technologist, Intel Corporation,
Chandler, USA

03.30 Closing remarks and end of conference