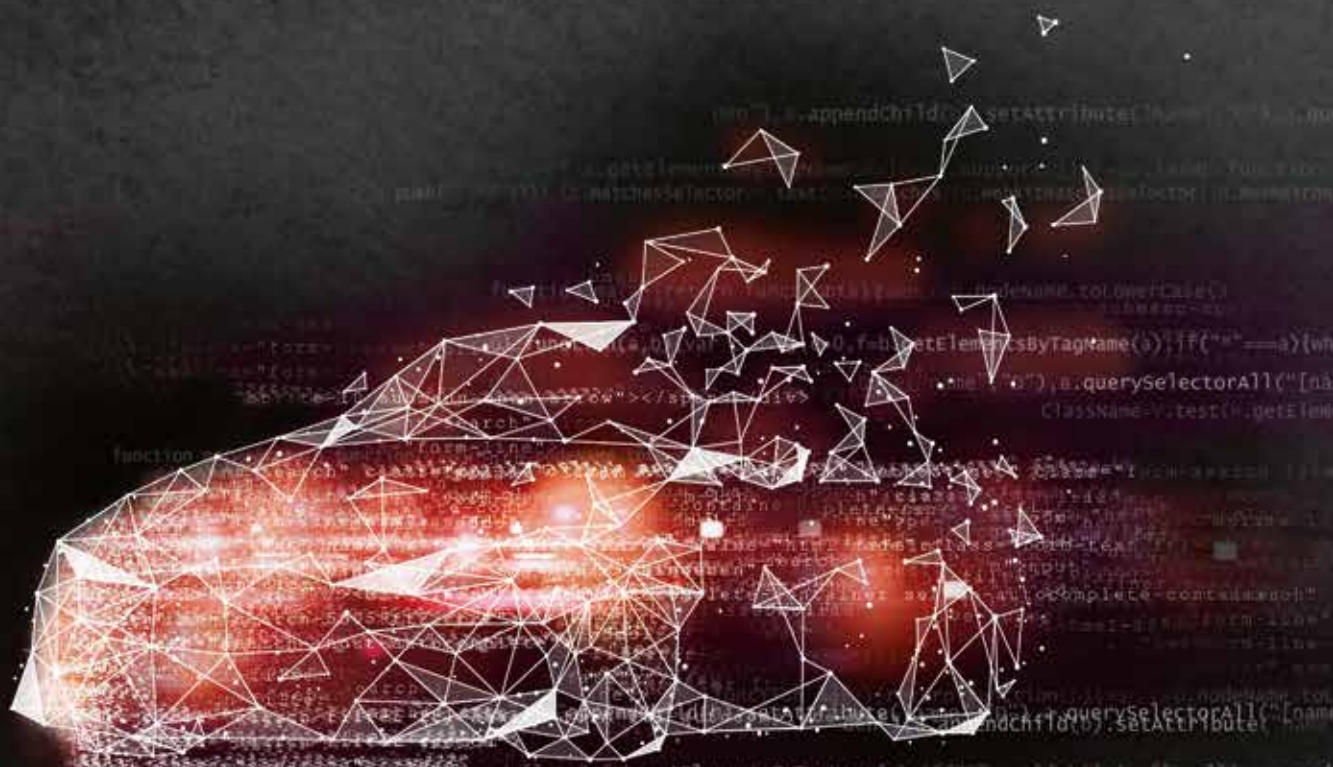


12 + 13
NOVEMBER 2019

STUTTGART/
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SOFTWARE DRIVES

INTERNATIONAL CONFERENCE



TRANSFORMATION TO
LARGE SCALE DISTRIBUTED
AUTOMOTIVE SOFTWARE

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ECTi

The transition from hardware- to software-defined vehicles changes the automotive ecosystem and the software content per vehicle is rapidly increasing. Don't miss your chance to shape the future of automotive software.

TOPICS

Technology

- » Change of architecture and introduction of modern software principles

Processes and Software Development Setup

- » Development of state-of-the-art development processes for software in the automotive sector, orientation towards software natives (e.g. CI/CD and automated testing)

Software Capabilities

- » Development of competencies, resources and global development setups

HIGHLIGHTS

- » Networking evening
- » Business speed dating
- » Roundtable session
- » With insights from: Volkswagen, Bosch, HERE, NVIDIA, Audi, Kugler Maag and Continental

ADVISORY BOARD



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MICHAEL NIKLAS

Head of Software Standards, Software CoC Standards, Corporate Systems & Technology, Continental

TUESDAY

12 NOVEMBER 2019

9.30

Registration with coffee and tea

10.00

Welcome address and introduction by CTI and the chair



Ralph Müller,
Eclipse Foundation Europe

10.10

Automotive Software and Electronics 2030 – Trends and Market Development

- » Overview of current technology trends that will change the automotive software and electronics architecture driven by ACES trends
- » Outlook of market development in automotive software and electronics components
- » Discussion on impact of players along the automotive value chain and disruption through new technologies



Johannes Deichmann,
Associate Partner, McKinsey & Company

10.40

Keynote



Bonifaz Maag,
CEO, Kugler Maag

11.10

Q&A and discussion

11.20

Networking break with coffee and tea 🍵

SOFTWARE AND SYSTEM ENGINEERING

11.50

Vehicle Abstraction Layer enabling Service Orientated Automotive Software

- » Vehicle independent application interfaces providing specific vehicle functions
- » Shifting functionality between different in-vehicle and external execution platforms
- » Chances and challenges



Alexander Springer,
Vice President Mobility Solutions Technology
Strategy Software, Robert Bosch GmbH

THE CONFERENCE LANGUAGE AND THE PRESENTATIONS WILL BE IN ENGLISH.

12.20

Unified Interface Description Language: How to Integrate and Manage Diverse SW Domains

- » A common description format for application communication
- » Orchestrate the interaction of signal, onboard-service and cloud domains
- » Prototyping and verification opportunities



Andreas Attenberger,

Head of Advanced Technology Consulting, Software
CoC AT C, Corporate Systems & Technology, Continental

12.50

Q&A and discussion

13.00

Networking lunch 🍷

14.30

Model-Based Systems Engineering for Connected Car Functions – a SysML Show Case

- » Why using Model-Based Systems Engineering with SysML
- » Connected car functions: a modelling example
- » Benefits and challenges within organization



Adriana Lungu,

Development Global Architecture & Vehicle
Connectivity / Electrical Concept, Audi AG

15.00

ECU and Application Independent Automotive Software Platform

- » Based on open standards
- » For realtime and high performance applications
- » Automotive grade turnkey solution



Robert Leibinger,

Head of Product Management Group Cross Products,
Elektrobit

15.30

Q&A and discussion

15.40

Networking break with coffee and tea 🍷

16.10

INTERACTIVE – CREATIVE – SOLUTION-ORIENTED Roundtable session



Participate in our roundtable discussions and exchange experiences with delegates and speakers. Choose and discuss about 2 out of 4 topics for 25 minutes each.

To apply for the moderation of a roundtable please contact

christian.linde@car-training-institute.com



17.00

Presentation of roundtable session results

OPEN SOURCE: OPEN SOFTWARE DEVELOPMENT, STANDARDIZATION AND OPEN INTERFACES

17.20

Open Source as a Way to Collaborate in a Changing Automotive Market

- » Challenges in development of complex software for autonomous driving
- » Usage of Open Source Technologies and their challenges
- » Open Source as enabler for development and collaboration



Joerg Tessmer,

Project Manager Cross Automotive Platforms -
Systems, Software and Tools, Robert Bosch GmbH



Andreas Riexinger,

Product Manager Automated Driving,
Robert Bosch GmbH

18.00

Open Source Platforms for Model-based Engineering with UML, SysML and more

- » Complexity and requirements for traceability and consistency when designing, developing and maintaining various types of complex systems
- » Integrated domain-specific tooling for creating, editing and analyzing system models
- » How flexible open-source platforms can be combined to build a tailor-made but still standards-conform modeling tool for systems engineering, with UML, SysML, and more



Dr Philip Langer,

Principal Software Architect / General Manager,
EclipseSource Austria

18.30

Q&A and discussion

18.45

Networking & Business Speed Dating 🍷

After the first conference day CTI cordially invites you to take the opportunity to network and exchange experiences in a relaxed atmosphere.



WEDNESDAY

13 NOVEMBER 2019

8.30 Welcome with coffee and tea

9.00
Welcome address and introduction by the chair
Ralph Müller

DATA

9.10
Advanced Static Code Analysis to Detect Safety Defects and Cybersecurity Vulnerabilities

- » Examples of safety-relevant vs. security-relevant programming defects
- » Similarities and differences of safety and security requirements at the programming level
- » Applying sound static analysis to demonstrate safety and security properties
- » Achieving data safety: identifying the impact of potentially corrupted input data



Dr Daniel Kästner,
CTO, AbsInt

9.40
Implementing AI for Self-Driving Cars



Sergio Amaya,
Director Automotive Software,
NVIDIA



Serkan Arslan,
Director of Automotive,
NVIDIA Europe

10.10

On the Way to One Volkswagen Automotive Platform



Markus Lipinsky,
Executive Vice President Connected Car & Device
Platform, Volkswagen AG

10.40

Title to be confirmed



Christof Hellmis,
Vice President and Head of Services Strategy
and Innovation, HERE Technologies

11.10

Q&A and discussion

11.30

Networking break with coffee and tea ☕

VIRTUAL SIMULATION, VERIFICATION AND VALIDATION

12.00

Virtual Vehicles as Key Technology in Powertrain Development

- » Engineering of virtual vehicles
- » Automated testing
- » Use cases



Christoph Peters,
Head of Department Engineering Software Methods
and Tools, Robert Bosch GmbH

12.30

Automated Test Factory for Virtual SW Integration



Dr Jens Pfeifer,
Technical Lead Test and Simulation Platform,
Audi AG



13.00 Q&A and discussion

13.15 Networking lunch 🍷

14.15

OpenMobility – Advancing Simulation Environments for Transport Applications

- » Collaboration through Open Source Software
- » The traffic simulation software Eclipse SUMO
- » Use cases for coupled simulations



Michael Behrisch,

Institute of Transportation Systems, German Aerospace Center (DLR)

14.45

Position, Navigation and Timing in a Connected Automated World

- » Why accurate positioning?
- » Why we need realism in simulation?
- » Future thoughts and directions



Dr Raphael Grech, Business Development Manager

– Connected & Autonomous Vehicles, Spirent Communications

15.15 Q&A and discussion

15.30 End of conference

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