14th GRAZ SYMPOSIUM VIRTUAL VEHICLE
Sep 1-2, 2021 | Graz, Austria

01. September 2021

TIME	
08:00	**REGISTRATION** — Welcome Coffee & Breakfast
09:00	**OPENING** — Jost Bernasch | VIRTUAL VEHICLE
09:15	**KEYNOTE** — Florian Netter | ARGO.AI — Challenges & the future role of embedded AI Compute Platforms to enable High Level Autonomous Driving Compute Architecture at Argo.AI
09:55	**Talk** — Jost Bernasch | VIRTUAL VEHICLE — Future of Vehicle Development
10:35	**KEYNOTE** — Carlo van Driesten | BMW Group — Enabling Enhanced Validation & Certification of Highly Automated Vehicles within the ENVITED Data Ecosystem
11:05	**Networking Break - 15 minutes**
11:30	**EXHIBITOR Presentation - 3 min each** — Siemens, Speedgoat, AVL LIST, Ansys Germany, Alp.Lab, VI-grade, GNS Systems, ASR Simulator
12:10	**Lunch Break**
13:50	**KEYNOTE ONLINE** — **Per Runeson I LUND University** — Open source and open data for automotive-threats or opportunities

Room 1: Efficient Development — Session Chair: Benedikt Martin	Room 2: ADAS — Session Chair: Stettinger Georg
Stefan Litter | MAN TRUCK & Bus — The MAN.Simulations.Framework: Processes, Methods, Tools and Applications for Agility andContinuity	**Jörg Günther | 3D Mapping Solutions GmbH** — Precise Ultra HD Maps from our worldwide Road Data Collection as basis for virtual Testing and Simulation
Alexander Braun | University Düsseldorf — Simulating tests to test simulation	**Holger H. Meinel** — ADAS and HAD - today's State-of-the-Art mm- wave radar sensors under corona influence and the newly up-coming trends
Martin Benedikt | VIRTUAL VEHICLE — Credibility Argumentation for Virtual Validation of Automated Vehicle Systems	**Bernhard Hillbrand | VIRTUAL VEHICLE** — Towards a harmonised safety validation procedure for connected and automated driving

Coffee Break (15:45)

Room 1: Efficient Development — Session Chair: Zoier Markus	Room 2: ADAS — Session Chair: Wimmer Peter
Christopher Woll | GNS Systems GmbH — Smart product development with the cloud: Management of application-specific CAE simulations and workflows for autonomous driving rethought	**Jinwei Zhou | Kontrol GmbH** — Enabling Certification of Advanced Driving Function & Autonomous driving using formal language
Shashank Sharma | Mathworks — Efficient creation of 3D scenes for automated driving simulation	**Diego Minen | VI-grade** — Multisensorial Harmonized Perception as Key Design Target for Driving Simulators

Networking & Beer (16:55)

City-Shuttle (18:00)

EVENING EVENT at FREIBLICK hosted by VIRTUAL VEHICLE (19:30)

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02. September 2021

Welcome Coffee (08:30)

Room 1: PITCH (15 min each) — Session Chair: Alexander Braun

TIME	
09:00	**Alexandru Forrai | Siemens Digital** — Towards trustworthy camera-based sensing and peception systems
09:15	**Bernhard Schrammel & Christoph Schmittner | msgPlaut Austria** — Collaborative engineering platform
09:30	**Kmeid Saad | Ansys** — Realtime Radar Sensor Simulation with Physics Based Results
09:45	**Sajin Gopi | AVL List GmbH** — Beyond ADAS Level 3 - Criticality Driven V&V of ADAS Function Robustness using AI-KP| Models
10:00	**Kevin Wrasse | Contact Software** — Accelerate virtual validation by direct PDM-VR coupling
10:15	**Marius Dupuis | SimCert** — SimCert — Rating Simulation Solutions
10:30	**Olaf Kath | Ansys Germany** — Model-Based Systems Engineering accelerated
10:45	**Danny Nowlan | Chassissim ONLINE** — Designing for the Dynamic response of Electric Vehicles using Simulation
11:00	**Networking Break**

ROUND TABLE	DEMO INTERACTIVE ZONE
ROUND TABLE — **Hubert Baumgartner BOSCH** — Continuous Integration as Driver for the Transformation from a Document Driven to a Data Driven Business	**DEMO INTERACTIVE ZONE:** DeLorean - Back to the Future on 1st of Sept. at GSVF FOYER — Spider Mobile AD Testing Platform
ROUND TABLE — **Alexander Braun & Marius Dupius HS Dusseldorf** — Quantifying Simulation Quality - Identifying Domains and Interested Parties.	**VIRTUAL VEHICLE Booth:** Automated Drive Demonstrator, ZERO ONE, DATA.BEAM, Escel Project: InSectt, Prystine, New Control

Lunch Break (12:15)

KEYNOTE — **Christoph Gümbel I Future Matters** — The big shift and what we can learn from new OEMs regarding CAE (13:45)

Room 1: Efficient Development — Session Chair: Zoier Markus	Room 2: Artificial intelligence — Session Chair: Solmaz Selim
Hubert Baumgartner | Robert Bosch AG — Scaling Continuous Integration from local teams, over on-premise server farms to public cloud	**Bernhard Lukas Girstmair & Thomas Moshammer | Siemens Mobility** — The Digital Revolution in Maintenance-Machine, Leaming Techniques on Embedded Systems for On Board Bogie Diagnostic Solutions
Gerhard Steininger | Deloitte GmbH — New Cyber Security and OTA Regulation Challenge OEMs - End to End Vehicle Cyber Security and Safety Processes and Tools for autonomous Vehicles	**Frank Kraemer | IBM** — AI and Big Data Management for Autonomous Driving
Gianluca Vitale | AVL List GmbH — Continuous and Seamless Automotive Software Delivery	**Tushar Sambharam | Ansys India ONLINE** — Electric Powertrain Virtual Validation through Virtual Drive Test

Summary (15:40)

Farewell with drinks & snacks (16:00)

End of GSVF 2021 (16:30)

Airport-Shuttle (16:30)