

MathWorks AUTOMOTIVE CONFERENCE 2023



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Time	Plenary Session: Digital Transformation	
9:00	Welcome and Introduction <i>Luigi Milia, MathWorks</i>	
9:10	Keynote: Higher Efficiency with Scalability in Semiconductor and Mixed EV Architecture <i>Hans Adlkofer, Infineon</i>	
9:35	Keynote: Accelerating Development of Clean, Safe, Automated Software-Defined Vehicles <i>Andy Grace, MathWorks</i>	
10:00	SDV: Integrating Simulink C++ Generated Code in Android Automotive Environment <i>Rémy Brugnon, Renault Group</i>	
10:25	Break and Exhibition	
11:00	Software Architectures and Virtual Integration in Model-Based Design <i>Ramamurthy Mani, MathWorks</i>	
11:25	CI/CD 2.0: From Scripted Jenkins Pipelines to Process Advisor <i>Martin Römpert, Continental Automotive</i>	
11:50	VDA SIL Standard: Change in SW and System Development in the Automotive Industry <i>Amir Sardari, Bosch</i> <i>Gernot Schrabberger, MathWorks</i>	
12:15	ChatGPT and Large Language Models with MATLAB <i>Deborah Ferreira, MathWorks</i>	
12:30	Lunch Break and Exhibition	13:30 - 14:00 Women in Tech Networking <i>Eva Pelster, MathWorks</i>

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Time	Electrification and Virtual Engineering	Automated Driving, ADAS, AI, and Data
14:00	How to Develop Model-Based AI Software for AURIX TC4x in MATLAB and Simulink <i>Mateusz Chmurski, Infineon</i>	Virtual World Generation for BMW Driving Simulation <i>Hubert Cao, BMW</i>
14:25	Electrothermal Modeling and Analysis of Battery Packs <i>Dr. Lorenzo Nicoletti, MathWorks</i>	Advanced Scene and Scenario Creation Workflows for Virtual Testing <i>Simone Hämmerle, MathWorks</i> <i>Advait Valluri, MathWorks</i>
14:50	Powertrain Simulation for Concepts Evaluation, Range Estimation, and Calibration <i>Dr. Christian Haupt, MAN Truck & Bus</i>	Deploying AI for Mission Profile Classification of Construction Equipment <i>Andrea Gravili, CNH Industrial</i>
15:15	Streamline Automotive SPICE Compliance Using Model-Based Design <i>Dr. Mohammad Abu-Alqumsan, MathWorks</i> <i>Dr. Marc Segelken, MathWorks</i>	Demystifying DevOps: A Cloud Workflow for Fleet Analytics with Machine Learning <i>Nicole Bonfatti, MathWorks</i> <i>Martin Büchel, MathWorks</i>
15:40	Break and Exhibition	
16:10	How to Achieve Full Coverage of Configurable Code with Polyspace <i>Cinzia Tomasello, STMicroelectronics</i>	Quality Inspection Based on Deep Learning and a Data-Centric Approach <i>Christian Prechtel, Miba AG</i>
16:35	Agile Behavior-Driven and Test-Driven Development with Model-Based Design <i>Dr. Marc Segelken, MathWorks</i>	Service-Oriented Arbitration of ADAS Features with Model-Based Design <i>Darshana Unnikrishnan, KPIT Technologies</i> <i>Nandakumar Kaiprath, KPIT Technologies</i>
17:00	Making the Most of FPGAs for Automotive Power Electronics Development <i>Dimitri Hamidi, MathWorks</i>	Targeting GPUs for Automotive Applications <i>Christoph Stockhammer, MathWorks</i>
17:25	Get-Together and Exhibition	

Floor Plan

Exhibitors

1. MathWorks
 - Driving Simulator
2. BTC Embedded Systems
3. dSPACE
4. Speedgoat
5. MathWorks
 - Automated Driving
 - Automotive Radar
6. MathWorks
 - Software-Defined Vehicle
 - AI for Battery SoC Estimation
7. Green Hills
8. Vector
9. MathWorks
 - MATLAB Quiz
 - DEI @ MathWorks
10. ICT Group
11. MathWorks
 - C/C++ Code Quality & DevOps
 - MBSE, ASPICE & ISO 26262
12. PTC

Room Zürich: Main Track

Room Zürich 1: Electrification and Virtual Engineering

Room Zürich 2: Automated Driving and ADAS

