2025 BMW SUMMER SCHOOL.
FINAL SCHEDULE.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
09:00		Keynote AI in Mobility **Speaker:** Dr. Celine Laurent-Winter & Dr. Martin Tietze (BMW)	Generative AI services **Speaker:** Hervé Durand (Kyndryl)	Chip Design Workshop	AI and Functional Safety: Chips for Automated Driving	Lean Startup Machine Pitch Day
10:00	Free Time (Pétanque training)	Morning Coffee	Morning Coffee	Morning Coffee	Morning Coffee	
			Business Model Canvas		**Speaker:** Prof. Holger Blume (LUH Hannover) Prof. Jürgen Becker (KIT Karlsruhe)	
11:00		Pétanque competition	**Speaker / Coach:** Sarah Schappert (BMW) Dr. Manuel Schneider (BMW)	**Speaker:** Martin Friedrich (LUH Hannover) Matthias Lüders (LUH Hannover)	AI in Battery Research **Speaker:** Prof. Weihan Li (RWTH Aachen)	Closure & Farewell
12:00	Lunch	Lunch	Lunch	Lunch	Lunch	
13:00						
14:00	Welcome address (organizers)	Innovation – from research to startup	Lean Startup Machine		Lean Startup Machine	
	Opening Keynote I **Speaker:** Prof. Alexander König (TUM)	**Speaker:** Simon Friedrich (TU Dresden)	**Speaker / Coach:** Sarah Schappert (BMW) Dr. Manuel Schneider (BMW)		**Speaker / Coach:** Sarah Schappert (BMW) Dr. Svenja Welk (BMW)	
15:00	Opening Keynote II **Speaker:** Dr. Hendrik Schweppe (BMW)	Lean Startup Machine				
16:00	Creating the Future **Speaker:** Lars Wingerath (BMW) Sarah Schappert (BMW)	Coffee Break	Coffee Break	Midweek Social Event	Coffee Break	
17:00	Poster Pitches	**Speaker / Coach:** Dr. Svenja Welk (BMW)	Next Frontiers in AI **Speaker:** Prof. Maria Zuluaga (EURECOM)			
18:00		Apero Poster Fair	Apero Poster Fair		Apero Poster Fair	
19:00						
20:00	Cocktail Reception & Dinner	Dinner	Dinner	Dinner	Dinner	
21:00		Poolside Chat **Speaker:** Dr. Celine Laurent Winter (BMW), Dr. Martin Tietze (BMW), Prof. David Gesbert (EURECOM)	La Plage de l'Île d'Or	mix and mingle	mix and mingle	

PROGRAM.

- ■ **Keynote/breakout track** – Learning from invited speakers presenting their views and/or research.
- • **Poster track** – presentation & discussion of conference submissions.
- • **Lean startup machine** – develop innovative ideas in a competitive startup pitching format.

2025 BMW SUMMER SCHOOL.
INVITED SPEAKERS.

Poolside Chat

David Gesbert · 1st
Director, EURECOM
Biot
3K followers

Dr. Céline Laurent-Winter ✓ · 1st
Vice President Connected Vehicle Platforms
Munich
3K followers

Dr. Martin Tietze
Vice President New Technologies Digital Car at BMW Group
Greater Munich Metropolitan Area
Experience: BMW Group, BMW, and 1 more

David Gesbert · 1st
Director, EURECOM
Biot
3K followers

Dr. Céline Laurent-Winter ✓ · 1st
Vice President Connected Vehicle Platforms
Munich
3K followers

Hendrik Schweppe ✓ · 1st
General Manager ConnectedDrive, BMW Group
Bavaria, Germany
Experience: BMW Group, Valley Development GmbH, and 4 more

Sarah Schappert in · 2nd
Invention Management & Ecosystem | Academic Relations |...
Germany
2K followers

Lars Wingerath
PhD candidate, innovation Management, BMW Group

Simon Friedrich
Founder, PhD candidate, TU Dresden

Martin Friedrich · 2nd
PhD Student at Institute of Microelectronic Systems (Leibniz...
Hannover
Experience: Leibniz Universität Hannover

Dr. Martin Tietze
Vice President New Technologies Digital Car at BMW Group
Greater Munich Metropolitan Area
Experience: BMW Group, BMW, and 1 more

Holger Blume · 1st
Prof. Dr.-Ing. at Leibniz Universität Hannover, Vice President...
Hannover-Braunschweig-Göttingen-Wolfsburg Region
Experience: Leibniz Universität Hannover, Leibniz University Hannover, Institute for Microelectronic Systems, and 3 more

Juergen Becker · 1st
Professor at KIT
Germany
Experience: Karlsruhe Institute of Technology (KIT), Universitaet Karlsruhe (TH) / KIT, and 1 more

Dr. Svenja Welk ✓ · 2nd
BMW Group
Germany
Experience: BMW Group, Atos Consulting, and 5 more

Weihan Li ✓ · 2nd
Junior Professor in AI and Digitalization for Batteries @ RWTH...
Aachen
Experience: RWTH Aachen University, Imperial College London, and 8 more

Maria A. Zuluaga ✓ · 2nd
Assistant Professor at EURECOM | Visiting Senior Lecturer...
Greater Nice Metropolitan Area
Experience: EURECOM, King's College London, and 7 more

Matthias Lüders · 1st
WIssenschaflicher Mitarbeiter/PhD Student bei Leibniz...
Hannover
Experience: Leibniz Universität Hannover

Hervé Durand in · 3rd+
Vice President and Distinguished Engineer at Kyndryl
France
Experience: Kyndryl, IBM, and 2 more

2025 BMW SUMMER SCHOOL.
POSTERS.

Simon Speth. Metamorphic Testing of Safety-Critical Deep Learning Components in Autonomous Vehicles

Selina Cheggour and Valeria Loscri. Hybrid AI & Metaheuristic Solutions for Optimized Frequency Allocation in 6G Networks

Artem Grigor, Anton Kravchenko and Ivan Martinovic. Model Split - Practical Scaling on Verifiable ML

Ramakrishnan Subramanian and Ulrich Büker. When Autonomous Vehicles hit their limits

Sujan Sai Gannamaneni, Rohil Prakash Rao, Michael Mock, Maram Akila and Stefan Wrobel. Detecting Systematic Weaknesses in Vision Models along Predefined Human-Understandable Dimensions

Vahid Zolfaghari. From Regulations to Road: Automating Scenario Generation with RAG and LLMs

Erdenebat Battseren. Multimodal Affect-State Recognition Utilizing LLaMA-Adapter

Olga Mironenko, Hadi Banaee and Amy Loutfi. Dynamic coordination of underground automated vehicles in response to human driver behavior

Aristotelis Styanidis, André Lourenço and George Yannis. Driver Drowsiness Detection: Physiological Monitoring and Impact of Missing Inter-Beat Intervals

Kaila C. Dawkins and Amelia C. Warden. Does User Preference Lead to Better Performance? Cue Preference, Trust, and Self-Confidence in an Augmented Reality Visual Search Task

Yessmine Chabchoub. Development and Evaluation of a Manufacturer-Independent Synchronization Framework for GenICam Industrial Cameras

Sousa Weddige. AI-Based Radar Pipeline - From Raw Radar Data to Object Detection

Amira Moualhi, Maryam Nezami, Saleh Mulhem and Georg Schildbach. From First Principles to AI: Enhancing Vehicle Models

Hossein Hosseinalibeiki. Emergency LLM: A Specialized Language Model for Emergency Management in Transportation

Florian Huber. Anomaly Detection in Vehicle-to-Cloud Communication of Connected Vehicles

Vafali Soltanmuradov. An Automated Framework for Formal Verification of DNNs

Alessandro Pighetti, Francesco Bellotti, Riccardo Berta, Andrea Cavallaro, Luca Lazzaroni and Changjae Oh. RAFT: Regularized Adversarial Fine-Tuning to Enhance Deep Reinforcement Learning for Self-Parking

Lu Zhang. Understanding Illicit Promotional Contents on Short Video Platforms

Miriam Louise Carnot. Automated Streetscape Monitoring

Vivek Vrujlal Vekariya. Test Dataset Quality Management Framework for DNNs

Nils Purschke and Alois Knoll. Reliable Software Engineering using Artificial Intelligence

Andrea Castellano. Human Performance Envelope in partially automated driving

Prakash Jamakatel. Contextual Assistance System for Single Pilot Operations

Michel Sauvage. Traffic Control with Deep Q-Networks: Is Precise Data Worth the Cost?

Leonardo Vezzani. In Car AR HUD

Amani Mechergui, David Luz, Segolene Le Mestre and Salma Abdesslam. Querying Core Procedures Documents with Generative AI: A Case Study with benchmarks

Alyah Alfageh, Theo Tryfonas and Nikolaos Stylos. Securing B2B MaaS: How Cyber Investments Impact Trust, Profit & Performance

Sivachitralakshmi S, Chitra P and Bharathi S. Quantum Keypoint Extraction And Matching for Autonomous Vehicles

Manoj Gudi and Amina Mokdad. Adapting Context based Header Compression for Autonomous Vehicles using AI

Syed Uddin, Michał Grega and Mikolaj. Leszczuk. Evaluating ABR Algorithms for Optimal Compression, Reliable Transmission, and Low Latency

Lars Wingerath. Contextualizing Innovation: A Case Study of BMW's Evolving Innovation Culture

Asgari Houman. TBD