

2024 BMW SUMMER SCHOOL.

INTELLIGENT CARS ON DIGITAL ROADS. FRONTIERS IN MACHINE INTELLIGENCE.

Highlight Topic: Trust and Safety for Intelligent Algorithms

- Functional Safety and Artificial Intelligence
- Advanced user experience and user interaction
- User acceptance and trust in autonomous systems
- The re-birth of semiconductors through AI
- Ethics of intelligent automation, Future of Work, UN SDG, AI regulation
- Latest trends: Generative AI, Quantum Machine Learning, 6G & New Space

10th French-German Summer School.

Fraueninsel, Chiemsee, Bavaria – Jun 30 - Jul 05, 2024.

Check for updates: <http://summerschool.bmw>



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DRAFT SCHEDULE.


	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
09:00	Arrival by ferryboat	Keynote AI in Mobility Speaker: Dr. Peter Lehnert (BMW)	AI – Safety & Standards Speaker: Martin Glas (labg)	Business Model Canvas Ideation Design Thinking Speaker: Alexandra Tran (Lexis Labs)	Lean Startup Machine Speaker / Coach: Alexandra Tran (Lexis Labs) Viking AI Speaker: Niko Vuokko (silo.ai)	Lean Startup Machine Pitch Day
10:00		Morning Coffee	Morning Coffee			
11:00		Mobility & Services of the Future Summer School Alumni 1/3 Speaker: Dr. Hendrik Schweppe (BMW) Dr. Oliver Klemp (BMW) Drt. Susanne Müller (Bardehle Pagenberg)	Opportunities in AI Summer School Alumni 3/3 Speaker: Dr. Sebastian Zimmermann (BMW) Julian Garbiso (Floware) Ion Turcanu (Luxembourg Inst. of Techn.)			
12:00						
13:00	Welcome Speaker: Prof. David Gesbert (EURECOM)	Lunch	Lunch	Lunch	Lunch	Closure, Farewell
14:00	Optimistic for the future? Speaker: Anders Indset (Business Philosopher, Best Selling Author)	Designing the future Summer School Alumni 2/3 Speaker: Prof. Patricia Alves-Oliveira (Univ. of Michigan) Prof. Francesco Walker (Leiden University) Dr. Natascha Weber (BMW)	Midweek Social Event	Lean Startup Machine Speaker / Coach: Alexandra Tran (Lexis Labs) Coffee Break	Responsible AI Speaker: Prof. Benjamin Rathgeber (HFPH)	
15:00	Coffee Break				Lean Startup Machine Speaker / Coach: Alexandra Tran (Lexis Labs)	
16:00	Creating the Future Speaker: Gilles Rabin (French Embassy) Florian Dötzer (UnternehmerTUM) Oliver Wick (BMW)				Coffee Break	
17:00	Poster Pitches				Apero Poster Fair	
18:00	Cocktail Reception & Dinner	Dinner	Dinner	Dinner	Dinner	
19:00						
20:00		Fireside Chat Speaker: Dr. Peter Lehnert (BMW), Dr. Celine Laurent-Winter (BMW), Prof. David Gesbert (Eurecom), Judith Sanvincente (silo.ai)	mix and mingle	mix and mingle	mix and mingle	

DRAFT PROGRAMME.


- 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.


2024 BMW SUMMER SCHOOL. INVITED SPEAKERS.

Pending


 **Sosina M. Gashaw** • 2nd
Assistant Professor at Addis Ababa Institute of Technology
Addis Ababa, Ethiopia
Experience: Addis Ababa Institute of Technology, EURECOM, and 2 more


Confirmed


 **Peter Dr. Lehnert** • 1st
VP Technology and Innovation - E/E Architecture and Digital Car Ex...
Bavaria, Germany
Experience: BMW Group, BMW, and 1 more


 **David Gesbert** • 1st
Director, EURECOM
Biot
3K followers

 **Dr. Céline Laurent-Winter** ✓ • 2nd
Vice President Connected Vehicle Platforms
Munich
1K followers


 **Francesco Walker** • 1st
Assistant Professor in Applied Cognitive Psychology at Leiden...
Leiden
Experience: Leiden University, Universiteit Twente, and 2 more

 **patricia alves-oliveira** • 1st
design for human-robot interaction
Ann Arbor, MI
Experience: University of Michigan, Open Style Lab, and 4 more


 **Ion Turcanu** • 1st
Head of the Edge Computing & Networks (EDGE) Group at...
Esch-sur-Alzette
Experience: Luxembourg Institute of Science and Technology (LIST) and SnT, Interdisciplinary Centre for...


 **Julian Garbiso, Ph.D.** • 1st
Co-Founder & CEO at Floware | X-TECH, Ecole Polytechnique...
Greater Paris Metropolitan Region
977 followers


 **Benjamin Rathgeber**
Professor, Natur- und Technikphilosophie, Hochschule für Philosophie München


 **Dr. Natascha Weber (Harth)** • 1st
Function Owner AI & Customer Intent @Digital Key at BMW Group
Greater Munich Metropolitan Area
Experience: BMW Group, University of Glasgow, and 2 more


 **Anders Indset** • 2nd
Philosopher, Bestselling Author & Founder of The Quantum...
Frankfurt
21K followers

 **Florian Doetzer** • 1st
Entrepreneur, Innovator and Independent Advisor
Garching
2K followers
Talks about #startup, #aerospace, #leadership, #entrepreneurship, and #mentoringmatters


 **Niko Vuokko** ✓ • 2nd
CBO Product AI, CTO at Silo AI
Helsinki
Experience: Silo AI, Kyyti Group, and 10 more


 **Maria Judith G. Sanvicente** • 2nd
Talks about #ai #digitalpayments, #digitalproducts,...
Greater Munich Metropolitan Area
Experience: Silo AI, Cascadia Author Services, and 5 more

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

 **Sebastian Zimmermann** ✓ • 1st
Head of Connected Vehicle Data and Platform Services @ BMW...
Munich
Experience: BMW Group, BMW Group Research and Technology, and 2 more

 **Oliver Klemp**
Head of Seat Concepts @ BMW Munich

 **Alexandra Tran** • 1st
AI Developer | Director Lexis Labs
Munich
2K followers

 **Dr. Susanne Müller** • 1st
Marketing Associate bei BARDEHLE PAGENBERG
Munich
Experience: BARDEHLE PAGENBERG, WW (formerly Weight Watchers), and 6 more

2024 BMW SUMMER SCHOOL. POSTERS.

Confirmed

Jiho Jin, Jiseon Kim, Nayeon Lee, Haneul Yoo, Alice Oh and Hwaran Lee (KAIST). KoBBQ: Korean Bias Benchmark for Question Answering

Carmine Caponio, Umberto Montanaro, Patrick Gruber, Aldo Sorniotti, Zoltan Hankovszki (UoSurrey). On torque-vectoring control for the obstacle avoidance scenario: a reinforcement learning case study

Muhammad Naeem Tahir, Marcos Katz, Ari Pouttu (UoOulu). Performance Analysis of Wireless Vehicular Communication with Embedded Safety Feature

Muhammad Naeem Tahir, Marcos Katz, Ari Pouttu (UoOulu). Drone Assisted Vehicular Communication (DAVN)

Zafer Attal. Non-Intrusive Monitoring and Diagnosis Module for Future Automotive Electronic System

Muhammad Naeem Tahir, Marcos Katz, Ari Pouttu (UoOulu). Heterogeneous Data for Enhanced Traffic Services (HDETS)

Pietro Stano (UoSurrey). Enhanced Active Safety through Integrated Autonomous Drifting and Direct Yaw Moment Control via Nonlinear Model Predictive Control

Diego Gasco, Claudio Casetti (Torino). AI-Based Strategies for Maneuver Coordination Service During Channel Congestion

Michael Neumeier, Nael Fasfous, Axel von Arnim (FORTISS). SpikeClouds: Streaming, Spike-based Near-Sensor Processing for Fast and Efficient Object Detection

Erdenebat Battseren (Tokyo Tech). Attention-based Image Captioning for Low Resource Languages

Haneul Yoo, Yongjin Yang, Hwaran Lee (KAIST). Code-switching Red-teaming Evaluation Benchmark for LLMs

Nicola Kolb (TUM). Scenario-based Testing of Autonomous Vehicles

Soumaya Boussaha, Solmaz Salimi, Antonioli Daniele, Aurelien Francillion, Thomas Barber (EURECOM). Enhancing Open Charge Point Protocol (OCPP) Privacy With End-to-End Taint Tracking

Caleb Jeanniton, Leia Stirling (UoMichigan). Measuring the effect of a powered ankle exoskeleton on street crossing decisions

Alexey Rolich (Sapienza). Persistence and the Age of Information in 5G NR-V2X Sidelink Communications

Fouzia Adjailia (DimensionLab). Simulation Analysis of Car Aerodynamics within Tunnel Environment using Deep Learning: A Comparative Architectural Study

Eugenio Tramacere (Torino). Estimation of passenger comfort level for autonomous highway off-ramp maneuvers

Sana Ben Hafsia, Rejeb Hadiji (Paris Est). Existence results for non local operator problems

Otto Piramuthu (UoIllinois). Trust/Cooperation in VANET-based Federated Learning

Yassine Rezgui, Abdelmajid Khelil (IDP). SynthAccident: Ensuring Trustworthiness in Generating Synthetic Datasets for Traffic Accident Scenes using Generative AI

Javad Maheri, Petros Elia (EURECOM). The Distributed Matrix Multiplication

Mohammadhossein Bahari (EPFL). Vehicle trajectory prediction works, but not everywhere

Maxime Cancouet, Romain Bellessort, Eric Nassor, Hervé Ruellan, Jean-Marie Bonnin (IMT / Canon). Evaluation of a Camera-based Infrastructure Accuracy in a Collision Scenario

Swantje Plambeck, Ali Salamat (TUHH / TUM). Data-Driven Safety Verification for Autonomous Systems Modeled as Mealy Machines

Niranjan Ballal, Thomas Soot, Michael Dlugosch (Fraunhofer). Enhancing VRU Safety in Urban Traffic Through Data-driven Injury Prediction

Gaetano Tavolo, Davide Tavernini, Aldo Sorniotti (UoSurrey). Next-Generation Active Safety Systems Driven by V2X Connectivity

Ali Nadar, Jérôme Härrri (Eurecom). 6G AI-as-a-Service (AlaaS) for CCAM Safe & Efficient Intersection Management

Jiajie Fan, Babak Gholami (BMW). Accelerating Development of Engineering Parts with Generative AI

Anna Kravets (DFKI). Understanding the Influence of Social Networks on Decision Making in Digital Twins

Abdelhadi Lammini (UoGrenoble). Implementation of Mixed Reality for Maintaining Geometric Coherence of Digital Twins

Mahendra Nath Reddy E (UoHertfordshire). Trustworthy ISL Sign Language Translator for Enhanced Mobility

Peicheng Liu (FAU). Current Research and Benefits of drive me&BMW