2023 BMW SUMMER SCHOOL.

Boulangerie Patisserie

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
- Ethics of intelligent automation, Future of Work, UN SDG
- Latest trends: Generative Al, Quantum Machine Learning, 6G

9th French-German Summer School.
Sofia Antipolis, France – Jul 03 - Jul 08, 2023.
Check for updates: http://summerschool.bmw























2023 BMW SUMMER SCHOOL. FINAL SCHEDULE.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
09:00	Welcome & Opening Keynote Speaker: Prof. Gerhard Kramer (TUM) Prof. David Gesbert (EURECOM)	Keynote Al in Industry Speaker: Dr. PeterLehnert (BMW)	Safe Al Research Speaker: Prof. Foutse Khomh (IVADO)	Business Model Canvas		Closure, Farewell
10:00	Morning Coffee	Morning Coffee	Morning Coffee	Ideation Design Thinking	Lean Startup Machine	
11:00	Bringing Ai to the real world Speaker: Speak	Opportunities in Al Speaker: Marting Glas (labg) Yann-Seing Law-Kam Cio (Designbot.tech)	Speaker: EURECOM Startup Studio	Speaker / Coach: EURECOM Startup Studio EURECOM EDHEC Incubator		
12:00						
13:00	Lunch	Lunch	Lunch	Lunch	Lunch	
14:00 15:00	Business & Regulation Speaker: Dr. Florian Dötzer (TUM Venture Labs) Martin Weiss (Tiptree Systems) Poster Pitches	Quantum ML and Quantum Generative Design Speaker: Markus Pflitsch (Terraquantum) Prof. Hao Wang (Leiden University) Antonio Andrea Gentile (Pasgal)		Lean Startup Machine	Lean Startup Machine	DRAFT PROGRAMME.
16:00 17:00	Coffee Break	Coffee Break Midweek Social Eve Apero Poster Fair:	Midweek Social Event			Keynote/breakout track – Learning from investment of the speakers presenting their views and/or research
18:00	Apero Poster Fair:			Apero Poster Fair		Poster track – presentation & discussion of conference submissions.
19:00		Dinner			Dinner	Lean startup machine – develop innovative
20:00	Cocktail Reception & Dinner	Fireside Chat Speaker: Dr. Peter Lehnert (BMW) & Prof. David Gesbert (Eurecom)	Dinner Dinner	Dinner	Lean Startup Machine Pitch Night	in a competitive startup pitching format.

BMW Summer School. | EURECOM/BMW/BayFrance/TUM | 2023

2023 BMW SUMMER SCHOOL. INVITED SPEAKERS.

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



Gerhard Kramer • 2nd

Professor & Senior Vice President Research and Innovation at Tec... Bavaria, Germany

■ Experience: Technical University Munich, Technische Universität München, and 3 more



Cornelia Schaurecker 1st In

Global Group Director AI & Big Data Vodafone | Advisor | Value cr... Germany

■ Experience: Vodafone, Capgemini, and 5 more



Foutse Khomh • 2nd

Canada CIFAR Al Chair at Mila, FRQ-IVADO Research Chair, Full Prof... Montreal, QC

3K followers

Talks about #ai, #se4ai, #semla, #machinelearning, and #softwareengineering



Markus Pflitsch · 2nd 🛅 Entrepreneur & Investor | Quantum Tech

9K followers

Talks about #quantum, #innovation, #entrepreneurship, and #quantumcomputing



Martin Glas · 2nd

Head of Innovation Colab at IABG Greater Munich Metropolitan Area

■ Experience: IABG, Bauhaus Luftfahrt e.V., and 1 more



Yann-Seing Law-Kam Cio 1st

CEO at DesignBot Terrebonne, QC

■ Experience: DesignBot, Centech Mtl, and 3 more



Martin Weiss • 2nd in

PhD Candidate at Mila

Montreal, QC

Past: Software Engineer at The Montreal Neurological Institute



Florian Doetzer - 1st

Entrepreneur, Innovator and Independent Advisor Garching

2K followers

Talks about #startup, #aerospace, #leadership, #entrepreneurship, and #mentoringmatters



Hao Wang · 2nd
Assistant Professor at LIACS

Leiden

且 Experience: LIACS, 上海谱时昊唯数据科技有限公司, and 4 more



Evren Ermis • 2nd

Big Data Architect bei Continental Mannheim

■ Experience: Continental, ETAS, and 2 more



Antonio Andrea Gentile . 2nd

Senior Quantum Developer @ PASQAL | co-founder @ MRS Netherlands

■ Experience: PASQAL, MRS s.r.l., and 5 more



Raphael Troncy 1st

Associate Professor in Data Science (Knowledge Graphs, Ontologi... Greater Nice Metropolitan Area

■ Experience: EURECOM, European Commission, and 6 more

2023 BMW SUMMER SCHOOL. POSTERS.

Dmytro Humeniuk. Reinforcement Learning Assisted Evolutionary Search for Autonomous Systems Testing

Brian Hsuan-Cheng Liao. Dependable Al for Autonomous Driving

Elahe Amiri, Antoine Legrain and Issmaïl El Hallaoui. Online optimization of a dial-and-ride problem with the integral primal simplex

Xiaoxu Chen. Probabilistic forecasting of bus travel time with a Bayesian Gaussian mixture model

Ha Nhi Ngo, Elsy Kaddoum, Jonathan Bonnet, Anaïs Goursolle and Marie-Pierre Gleizes. Generalized Traffic Prediction System using Adaptive Multi-Agent Approach for Different Traffic Levels

Youssef Achari Berrada, Elvira Shishenina and Hans-Joerg Voegel. Quantum Al for Aerodynamics Simulations: Towards Zero-Physical Prototyping

Mert Keser, Gesina Schwalbe and Alois Knoll. Real-time Interpretable Plausibility Verification for 2D Object Detectors Using Domain-Invariant Concept Bottleneck Models

Gabriela de Moraes Beltrão. Cross-Cultural Factors Affecting Trust in Technology

Bernhard Jobst, Carlos A. Riofrío, Elvira Shishenina and Frank Pollmann. Efficient representation of classical data as compressed quantum states for quantum machine learning

Clément Blanco-Volle, Frédéric Migeon, Marie-Pierre Gleizes, Stéphanie Combettes, Nicolas Verstaevel and Michel Povlovitsch Seixas. Contextual Recommended Speed

Ioannis Vondikakis. A Federated Learning Framework for Intelligent Road Surface Classification

Simon Schramm, Ulrich Niklas and Kim Dominique Nebe. Explainable Demand Forecasting: A model agnostic, graph-based approach

Sebastian Schmidt and Stephan Günnemann. Online and Stream-based Active Learning for Autonomous Driving Perception

Muhammad Naeem Tahir, Prof. Marcos Katz and Prof. Ari Pouttu. Advanced Vehicular Communications Through Cellular and Short-Range Networks Exploiting Road Weather and Traffic Observation Data

Giacomo Golluccio. Reinforcement Learning-based Robot Bin-Picking Application in Cluttered Environment: Simulations and Experiments

Felix Fröhling. Diagnosis, Quantification, and Mitigation of Risks to Vulnerable Road Users and other Vehicles Arising from Uncertainties in Sensor Data

Hanadi Alhamdan and Dorothy Monekosso. Driver Behaviour Analysis Using Multiple Data Sources for Improving Road Safety

Kevin Shen, Vedran Dunjko, Hao Wang and Elvira Shishenina. Quantum Generative Modelling in Application to Generative Design

Lara Pörtner. Creation of a customer-specific reference model for achieving optimal data strategies based on maturity analyses: methods and tool

Ali Salamati, Majid Zamani and Ali Salamati. Data-Driven Safety Verification of Stochastic Systems: A Wait-and-Judge Approach

A Wasay Khan. Generative Modeling for Composite Adhesives

Otto Piramuthu. BEV Range Anxiety and Cumulative Prospect Theory

Faisal Hawlader, Francois Robinet and Raphael Frank. Comparing Edge and Cloud for V2X-Based Real-Time Object Detection in Autonomous Driving

Musab Bin Saad Zuberi, Safwan Khan, Asad Ur Rehman, Muhammad Zain Uddin and Faisal Iradat. Cloud Based Vehicular Intrusion Anomaly Detection System, Enhancing Security in Connected Vehicles

Enguerrand Boitel. Empowering Individual Mobility with Blockchain Technology Using Al **Muhammad Zain Uddin and Syed Muhammad Faisal Iradat**. A Model for Secure Sharing of Structured Cyber Threat Intelligence in vehicular networks

Carlos Mateo Risma Carletti. Platoon-Local Dynamic Map: Micro cloud support for platooning cooperative perception