



08:45 – 09:15 REGISTRATION & COFFEE
Main hall

09:15– 09:30 **OPENING - Welcome note by Hi-Drive**
Auditorium
Aria Etemad, Hi-Drive Project Coordinator, Volkswagen Group Innovation - Germany
Angelos Amditis, R&D Director at ICCS/NTUA, Chairman of ERTICO – Greece

SESSION A Advancements in Perception and Motion Prediction Planning and Testing
Moderator: Elena Daskalaki (ICCS)

09:30– 10:30 **Fascinating sensor behavior models: enabling the disruption from ADAS to AD**
Auditorium
Stefan Schneider, Professor for Advanced Driver Assistance Systems, University of Applied Sciences Kempten – Germany

10:30 – 11:00 SUN & COFFEE BREAK
Main Hall

11:00 – 12:00 **The key to proactive traffic interaction: Challenging sequential integration of prediction and planning – a survey perspective**
Auditorium
Steffen Hagedorn, Researcher on AI for Automated Driving, Bosch – Germany

12:00 - 13:00 **Enhancing vehicle vision for automated driving in low visibility conditions with Artificial Intelligence: insights and solutions from the European research project AI-SEE**
Auditorium
Werner Ritter, Researcher and Senior Expert, Mercedes-Benz AG – Germany

13:00 – 14:00 LUNCH BREAK
1st floor
& POSTER SET-UP in the Main Hall

SESSION B Advancements in Collective Perception Design and Testing
Moderator: Panagiotis Pantazopoulos (ICCS)

14:00 – 15:00 **Microclouds for Cooperative Perception in Vehicle Platoons**
Auditorium
Claudio Ettore Casetti, Professor at Politecnico di Torino, Department of Control and Computer Engineering – Italy

15:00 – 16:00 **Cybersecurity design for Collective Perception**
Auditorium
Ashok Krishna, Senior Engineer at Volvo Car Corporation – Sweden

16:00 – 17:00 **Poster Session & Speaker Corners**
Main Hall

19:30 **Group Dinner** (Self-paid)
TBD





09:00 – 09:30 MORNING COFFEE & INTRODUCTION to DAY 2
Main hall

09:30– 10:20 **Keynote: 7 Foundational Principles for Automated Driving**
Auditorium
Alexandre Massoud Alahi, Associate Professor Director of the Visual Intelligence for Transportation (VITA) Laboratory EPFL - Ecole Polytechnique Fédérale de Lausanne – Switzerland

SESSION C Human-in-the-loop and Human Factors
Moderator: *Natasha Merat (University of Leeds)*

10:20– 11:10 **Motion Comfort in AVs: Understanding, Modelling and Enhancing it**
Auditorium
Georgios Papaioannou, Assistant Professor on Motion comfort in AVs, Delft University of Technology – The Netherlands

11:10 – 11:30 SUN & COFFEE BREAK
Main Hall

11:30 – 12:20 **Estimating driver takeover performance using gaze data**
Auditorium
Rafael Cirino Goncalves, Research Fellow, University of Leeds – UK

12:20 – 13:10 **Teleoperation: research needs and human factors challenges**
Auditorium
Lena Plum, Psychologist, Federal Highway Research Institute - BAST – Germany

13:10 – 14:10 LUNCH BREAK
1st floor

SESSION D Human Factors Research for Autonomous Driving Safety Argumentation
Moderator: *Anastasia Bolvinou (ICCS)*

14:10 - 15:00 **Human factors research for standards and regulation**
Auditorium
Ilse Harms, Senior advisor Human Factors & Vehicle Automation, RDW – The Netherlands

15:00 – 15:50 **Human road user behaviour modelling to support vehicle automation**
Auditorium
Gustav Markkula, Chair in Applied Behaviour Modelling, University of Leeds – UK

15:50 – 16:00 **Hi-Drive Summer School 2024 Closing Remarks**
Auditorium

16:00 – 16:45 **Poster Session & Summer School Farewell Drinks**
Main Hall





Stefan Schneider

Professor for Advanced Driver Assistance Systems, University of Applied Sciences Kempten – Germany

*Fascinating sensor behavior models:
Enabling the disruption from ADAS to AD*



Steffen Hagedorn

Researcher on AI for Automated Driving, Bosch – Germany

The key to proactive traffic interaction: Challenging sequential integration of prediction and planning – a survey perspective



Werner Ritter

Researcher and Senior Expert, Mercedes-Benz AG – Germany

Enhancing vehicle vision for automated driving in low visibility conditions with Artificial Intelligence: insights and solutions from the European research project AI-SEE



Claudio Ettore Casetti

Professor at Politecnico di Torino, Department of Control and Computer Engineering – Italy

Microclouds for Cooperative Perception in Vehicle Platoons



Ashok Krishna

Senior Engineer at Volvo Car Corporation – Sweden

Cybersecurity Design for Collective Perception



Alexandre Massoud Alahi

Associate Professor Director of the Visual Intelligence for Transportation (VITA) Laboratory EPFL - Ecole Polytechnique Fédérale de Lausanne – Switzerland

7 Foundational Principles for Automated Driving



Georgios Papaioannou

Assistant Professor on Motion comfort in AVs, Delft University of Technology
– The Netherlands

Motion Comfort in AVs: Understanding, Modelling and Enhancing it



Rafael Cirino Goncalves

Research Fellow, University of Leeds – UK

Estimating driver takeover performance using gaze data



Lena Plum

Psychologist, Federal Highway Research Institute - BAST – Germany

Teleoperation: Research needs and human factors challenges



Ilse Harms

Senior advisor Human Factors & Vehicle Automation, RDW – The Netherlands

Human factors research for standards and regulation



Gustav Markkula

Chair in Applied Behaviour Modelling, University of Leeds – UK

Human road user behaviour modelling to support vehicle automation



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101006664



Supported by the European Council for Automotive R&D

 [LinkedIn company/hi-drive](https://www.linkedin.com/company/hi-drive)

hi-drive.eu

