

IAV AI Day

13 November 2024

ESTACA – Campus Paris Saclay

Agenda

8:30 Welcome Coffee

9:00 Welcome session

Dr. Mirko Knaak, IAV GmbH

Dr. Ralph Saliba, IAV France

9:10 Keynote

By Microsoft

9:40 AI in the V-process

Generative AI for (efficient) Engineering – IAV AI engineering Suite

Kevin Schoessow; Dr. Mirko Knaak, IAV GmbH

IAV's engineering AI suite aims to revolutionize automotive engineering by automating the development process from generating formal requirements to creating test specifications, code development, and report generation. The talk will demonstrate how this technology integrates into existing workflows with specific examples.

10:10 Coffee Break

10:30 IAV Merida – AI-driven vehicle data analytics on a scalable data management platform

Richard Benedix, IAV GmbH

When it comes to modern vehicle development, a reliable system that manages, analyzes, and visualizes data is indispensable. IAV has over 16 years of experience in running IAV Merida for customers worldwide – a scalable platform solution for data management and analytics. With AI-driven analytics like anomaly detection, pattern recognition, and clustering, IAV's Merida toolchain offers the next step for automotive data analysis.

11:00 AI in data analysis

Chatting with your project data – requesting anomalies by simple messages

Dr. Mirko Knaak, IAV GmbH

This talk combines classic AI and Generative AI (Gen AI) to enhance automotive projects. Gen AI holds vast potential for intuitive user interactions, while Classic AI techniques have proven significant benefits development over years. The use case shows an anomaly detection that can be accessed smoothly from office chat and results in a high-level graphical analysis on a fingertip.

11:30 Data-driven validation

From Virtualization and Automation to Value – Intelligent Scenario Selection with IAV Valdivia Sample

Dr. Max Winkelmann, IAV GmbH

Automated driving functions must handle countless scenarios with many influencing parameters. IAV Valdivia Sample is a service that uses machine learning to identify relevant scenarios efficiently, reducing the effort for SiL, HiL, and proving ground tests by up to 80 %. The solution is API-based for seamless integration into your toolchain.

12:00 Lunch break

13:30 BlackBerry IVY**The Software-Defined Vehicle (SDV) and Artificial Intelligence (AI)**

Dr. Clemens Satzger, IAV GmbH

IAV and BlackBerry have partnered to utilize the BlackBerry IVY platform, enabling quick AI implementation on ECUs within weeks. This platform allows for faster innovation and deployment across various vehicles. It also reduces costs by running AI on the ECU and supports on-demand feature sales. Additionally, it enhances in-vehicle experiences with easy software updates and scalability across multiple vehicle domains.

14:00 Predictive AI Technologies

Warda Khan; Jan Baumann, IAV GmbH

We focus on making driving experience safer with our predictive AI technologies. With IAV SonicSeek we can increase the quality and safety of mechanical components during production and while driving. With IAV Carlina we can predict the driver's next actions to adopt precautionary driving style.

14:30 How OEMs could save quality costs: Data-Driven Field Monitoring and Probabilistic Predictions

Dr. Mirko Knaak, IAV GmbH

Warranty costs, amounting to several billion euros annually, pose a significant financial challenge for many companies. This presentation introduces a novel approach leveraging digitalization to rapidly identify and address major warranty issues. Our holistic, data-driven approach automates error knowledge accumulation, detects patterns and root causes, and prioritizes significant issues with probabilistic lifetime prediction. The latter method reduces spare parts inventory, demonstrating substantial cost savings.

15:00 Better ask WiBo

Kevin Schoessow, IAV GmbH

We offer our customers the chance to address two key challenges simultaneously: First, we ensure that the right knowledge is available for everyone at the right time, presented in a way that provides real value. Users asking questions don't need to worry about which system holds the information, and colleagues eager to share can focus on content rather than IT systems. Second, while there is a belief that AI will transform industries, employees need the willingness to work with it. Positive and seamless daily experiences with AI facilitate the cultural shift ahead, and IAV WiBo is at the forefront of creating such experiences.

15:30 Refreshments and networking

16:30 Panel discussion

17:15 Ending remark

17:30 End of event

Register [here!](#)

Practical information

Location ESTACA – Campus Paris Saclay, 12 Avenue Paul Delouvrier 78180 Montigny le Bretonneux

Room tbd, 4th Floor

Costs Free of charge

Arrival and Parking

By car – please use the parking lot “Parc de la gare” (P10). The parking lot costs €8.50 per day and is about a 5-minute walk from ESTACA University. There are no public parking spaces on the campus itself.

By public transportation – please get-off at the station “Saint-Quentin-En-Yvelines”

From Paris Montparnasse 40 min Line N

From La Defense 45 min Line U

From Paris Saint Michel 1 hour Line C

From the train station to ESTACA 5 min walk