# 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, Matthias Koenig, 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 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**
*Aarohan Jain, 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

# AI Day

**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 precautious 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**

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| **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”

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| 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 | |