KI FAMILIE

Newsletter #1, 04/2021

Dear reader,

Welcome to the first newsletter of the KI Familie and thank you for your subscription.

The KI Familie newsletter will provide information about the KI Familie projects: KI Absicherung, KI Data Tooling, KI Delta Learning and KI Wissen. You will regularly be informed about project news, get an insight into the project partners' work, upcoming events, calls for publications and much more.

We want this newsletter to be valuable for you, so please share your feedback and suggestions.

We wish you an enjoyable reading.

Best wishes,

The KI Familie editorial team

"Reaching the top through cooperation"-Joint event of BMWI and VDA reaffirms relevance of collaborative projects

How is the automotive industry positioning itself in the face of the major challenge of digitalization? This question was the focus of the joint event organized by the German Federal Ministry for Economic Affairs and Energy (BMWi) and the German Association of the Automotive Industry (VDA), which took place as an online event on March 2nd, 2021 under the title "To the top through cooperation - the automotive industry is shaping the digital transformation". In two panel discussions and subsequent project presentations, both the broad political dimension and individual projects were highlighted.

Read more

The second part of the joint event was about the topic “The KI Familie of the VDA Leitinitiative – Increased AI competence development for the automotive industry”. The session was moderated by Cornelia Denk, Research E/E Architecture, Technologies, BMW Group and Dr. Eckard Steiger, Director Industrial Cooperations Automated Driving, Robert Bosch GmbH. Knowing the KI Familie very well, Cornelia Denk started with an introduction of the project family. With the goal to make autonomous driving safe, the KI Familie was initiated and developed by the internationally renowned VDA Leitinitiative for autonomous and connected driving. This initiative accelerates innovation through joint research activities of car manufacturers, suppliers, technology providers and research institutions. This sets new standards in pre-competitive research.

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Project Highlights

Virtual kickoff sets starting signal for KI Wissen

On January 1st 2021 KI Wissen, the fourth and for now last project in the KI Familie of the VDA Leitinitiative autonomous and connected driving officially started. The kick-off of KI Wissen took place on the 2nd February 2021 as a virtual event with 83 participants.

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KI Data Tooling: First milestone accomplished

Despite the restrictions imposed by Covid-19, the project consortium of KI Data Tooling succeeded in reaching the project's first milestone on time. With that, the consortium created the foundation for the data generation processes, as well as the development of methods in the project.

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KI Delta Learning organizes workshop on renowned IEEE IV2021 conference

A group of the KI Delta Learning project successfully submitted a workshop proposal to the IEEE IV2021 conference and will host the working session "Delta Learning for Autonomous Driving" as part of the event. Scheduled for July 11-15th, 2021, the conference brings together researchers and experts from universities, industry, and government agencies worldwide to share and discuss the latest advances in theory and technology related to intelligent vehicles.

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Successful interim presentation of KI Absicherung

On 11th March 2021 KI Absicherung, the first and largest project of the KI Familie launched in July 2019 held its interim presentation. Due to the pandemic the interim presentation was held online. The event started with an introduction into the project by its project coordinator Dr. Stephan Scholz, Volkswagen AG. It was followed by a presentation of the Proof of Project Concept by PD Dr. Michael Mock, Fraunhofer IAIS and Scientific coordinator and consortium co-lead of the project.

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KI-Absicherung: Proof of Project Concept conducted

Developing a stringent safety-argumentation for AI-based perception functions requires a complete methodology to systematically organize the complex interplay between specifications, data and training of AI-functions, safety measures and metrics, risk analysis, safety goals and safety requirements. The project KI Absicherung has successfully conducted a "Proof of Project Concept" in order to define and exemplify the detailed technical workflow for developing a stringent safety-argumentation for AI-based perception functions in a minimalistic example.

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Academic Corner

Timo Sämann, Valeo; Horst-Michael Gross: Online Out-of-Domain Detection for Automated Driving. In: Machine Learning in Certified Systems Workshop (https://mlcertifiedsystems.deel.ai/)

Sebastian Houben, Fraunhofer IAIS et al.
Inspect, Understand, Overcome: A Survey of Practical Methods for AI Safety.

News & Events

German Autogipfel: Is the industry ready for transformation?

In November 2019, at Chancellor Merkel's request, a roundtable consisting of representatives of the automotive industry, trade unions and research bodies had decided that both private and public mobility providers would jointly create a comprehensive data network by the end of 2021. However, hardly any private companies are actively participating and convincing business models are lacking. What will be the next steps to ensure a joint digitalization of mobility?

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ITS World Congress, 11-15th October, 2021, Hamburg, Germany

The ITS World Congress is the world's largest and most prominent event focused on smart mobility and the digitalisation of transportation. The projects of the KI Familie will be presented at the event.

Read more

SAIAD 2021- Safe Artificial Intelligence for Automated Driving, Third Workshop, 19th June, 2021, Virtually

The focus of SAIAD 2021 organised in conjunction with IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR' 2021) is on safe AI perception in the automotive environment.

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CVPR 2021, 19-25th June, 2021, Virtually

CVPR is the premier annual computer vision event comprising the main conference and several co-located workshops and courses.

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Contact us for comments & feedback

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KIDATA TOOLING The Data Kit for Automotive AI
KIDELTA LEARNING Scalable AI for Automated Driving
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