



Newsletter #4, 03/2022

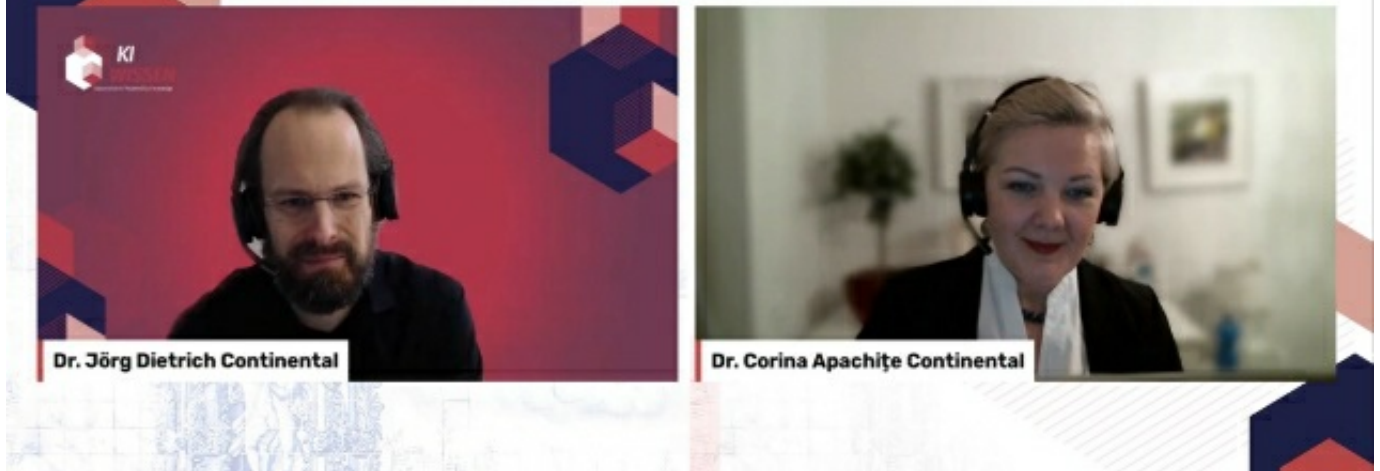


Dear reader,

We are pleased to send you the fourth edition of our KI Familie newsletter. The year 2022 started with the first Open Project Day of KI Wissen on 22 February at which the project partners presented their first results. The new interactive format of the event with forums, elevator pitches and live votings was very well received by the participants of the event. Read more about the event in our top story of today. In the project highlights you will learn more about KI Data Tooling's patent application for abstraction of sensor data and the joint event of KI Absicherung and KI Data Tooling in June.

Best wishes,

The KI Familie editorial team



First Open Project Day of KI Wissen held

On 22 February 2022, the first Open Project Day of KI Wissen took place as a virtual event. At the event, to which all members of the four KI projects were invited, first results and current developments of the youngest project of the KI Familie were presented.

[Read more](#)

Project Highlights



Save the Date - Joint event of two KI Familie projects

On 23 and 24 June 2022, a joint event of KI Absicherung and KI Data Tooling, two projects of the KI Familie, will take place in Berlin, Germany. The event can be followed via Livestream.

[Read more](#)



Patent application for abstraction of sensor data

KI Data Tooling has filed its first patent application. Hannes Reichert (University of Applied Sciences Aschaffenburg, UAB) and Konrad Doll (UAB) report on the motivation, design considerations, and their general vision of sensor data abstraction methods in automotive perception systems.

[Read more](#)

Events



VVM Virtual Mid-term Event

On 15 and 16 March 2022, the mid-term presentation of the VVM project will take place as a virtual event. Register [here](#)



IMAGinE Project Final Event

Save the Date for the virtual IMAGinE Final Event on 12 May 2022. Concepts and key results of the development of innovative driving assistance systems for cooperative driving will be presented. For more information contact: mario.druse@eict.de or visit: www.imagine-online.de



35. VDI Conference Fahrassistenzsysteme und Automatisiertes Fahren

The 35th Conference "Fahrassistenzsysteme und Automatisiertes Fahren" will be held in German on 17-18 May, 2022 in Aachen, Germany.

[Find out more](#)



ITS Europe

The 34th ITS European Congress will be held in Toulouse, France on 30 May to 1 June, 2022.

[Find out more](#)



@City Final Event

The @City Project Final event will take place on 22 and 23 June 2022 at the Aldenhoven Testing Center, Germany.

[Find out more about the project](#)

Register here: veranstaltung@city-online.de



CVPR 2022

The premier annual computer vision event will take place on 19-24 June, 2022 in New Orleans, USA. [Find out more](#)



ITS World Congress 2022

The ITS World Congress 2022 will be held on 18-22 September, 2022 in Los Angeles, USA

[Find out more](#)

Academic Corner



Anomaly Detection in Multi-Agent Trajectories for Automated Driving

Julian Wiederer, Arij Bouazizi, Marco Troina, Ulrich Kressel and Vasileios Belagiannis

[Link to publication](#)

Learning Temporal 3D Human Pose Estimation with Pseudo - Labels

Arij Bouazizi, Ulrich Kressel and Vasileios Belagiannis

[Link to publication](#)

SegmentMelfYouCan: A Benchmark for Anomaly Segmentation

Robin Chan, Krzysztof Lis, Svenja Uhlemeyer, Hermann Blum, Sina Honari, Roland Siegwart, Pascal Fua, Mathieu Salzmann, Matthias Rottmann

[Link to publication](#)

Projected GANs Converge Faster

Axel Sauer, Kashyap Chitta, Jens Müller and Andreas Geiger

[Link to publication](#)

On the Frequency Bias of Generative Models

Katja Schwarz, Yiyi Liao and Andreas Geiger

[Link to publication](#)

Adaptive test case selection for DNN-based perception functions

Johannes Bernhard, Thomas Schulik, Mark Schutera, Erik Sax

[Link to publication](#)

Unsupervised Traffic Scene Generation with Synthetic 3D Scene Graphs

Mert Keser, Artem Savkin, Federico Tombari

[Link to publication](#)

Content Disentanglement for Semantically Consistent Synthetic-to-Real Domain Adaptation

Mert Keser, Artem Savkin, Federico Tombari

[Link to publication](#)

Laplace Approximation with Diagonalized Hessian for Over-parameterized Neural Networks

Tianming Qiu, Hao Shen, Ming Gui, Ziqing Zhao

[Link to publication](#)

On the Necessity of Explicit Artifact Links in Safety Assurance Cases for Machine Learning

Lydia Gauerhof, Roman Gansch, Christian Heinzemann, Matthias Woehrle, Andreas Heyl

[Link to publication](#)

Parameterizable Lidar-assisted traffic sign placement for the augmentation of driving situations with CycleGAN

Philipp Rigoll, Patrick Petersen, Jacob Langner, Eric Sax

[Link to publication](#)

Towards Causality-Driven Reinforcement Learning for Autonomous Driving

Stefan Rudolph, Tobias Latka

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Contact us for comments & feedback

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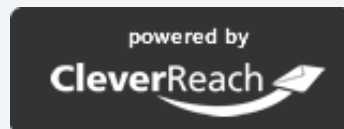
Image sources:

Cover picture: First open project day of KI Wissen held: KI Wissen; Save the Date - Joint event of two KI Familie projects: unsplash;
Patent

application for abstraction of sensor data: TH Aschaffenburg; VVM 2022: EICT; IMAGinE: EICT, VDI Fachtagung: VDI; ITS Europe: ITS;
@City:@City project; CVPR: CVPR; ITS WC: ITS Americas

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