KIT
Karlsruhe Institute of Technology

HUAWEI

HUAWEI TECHNOLOGIES
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KARLSRUHE INSTITUTE OF TECHNOLOGY (KIT)

Institute for Information Management in
Engineering (IMI) / Center for Artificial
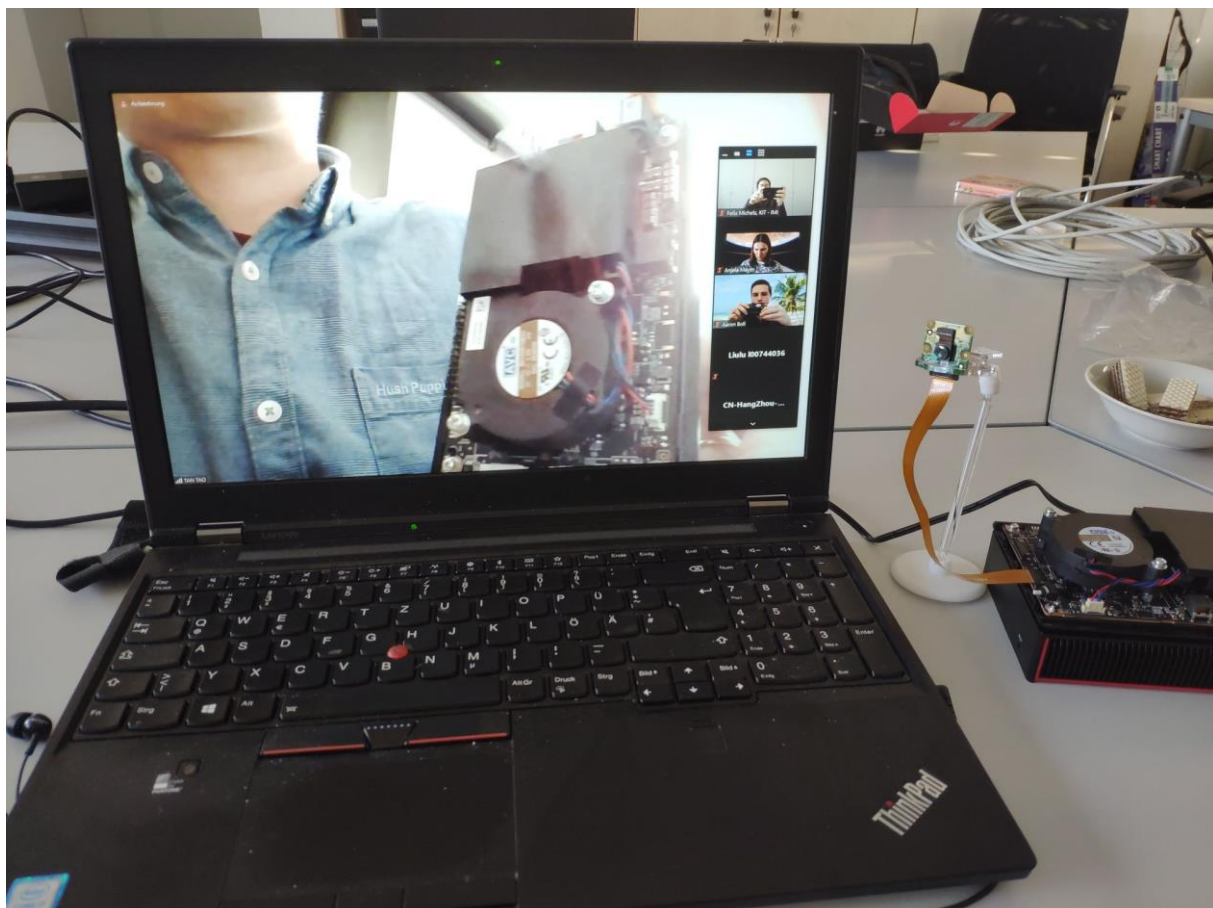Intelligence Talents (CAIT)

2020-04-22

AI in livestream "Shenzhen – Karlsruhe"

First on-line joint AI talent training at KIT with Huawei Ascend AI Processors and Applications from 20 to 22 April 2020

Conclusion:

- **First successful training outside China**
- **First online training**
- **First training, in which all participants have solved all tasks**

At the Center for Artificial Intelligence Talents (CAIT) of the Institute for Information Management in Engineering (IMI) at KIT, AI talents train in Huawei runtime environment for further AI application development and new professions.

The most important preconditions for a wide-ranging implementation of AI in industry include the availability of a high-performance computation and connectivity infrastructure, the data sovereignty, i.e. the openness of the economy and society in the competent handling of digital data and business models in compliance with data protection regulations, as well as the AI talent education and the ability to transfer knowledge in practical skills through action.

The Center for Artificial Intelligence Talents (CAIT), founded 2019 at IMI, brings digital mindset and the use of AI as a crucial qualification for professional success in future. CAIT offers AI-methods and -technologies making analytics tangible and runs a series of training courses to teach in professional skills and abilities in a fast, pragmatic and action-oriented way.

KIT with its IMI and CAIT and Huawei see great potential in the use of modern AI technologies enhanced by Huawei products and platforms in the educational practice at KIT in order to promote AI talents and inspire their interest on further AI application development.
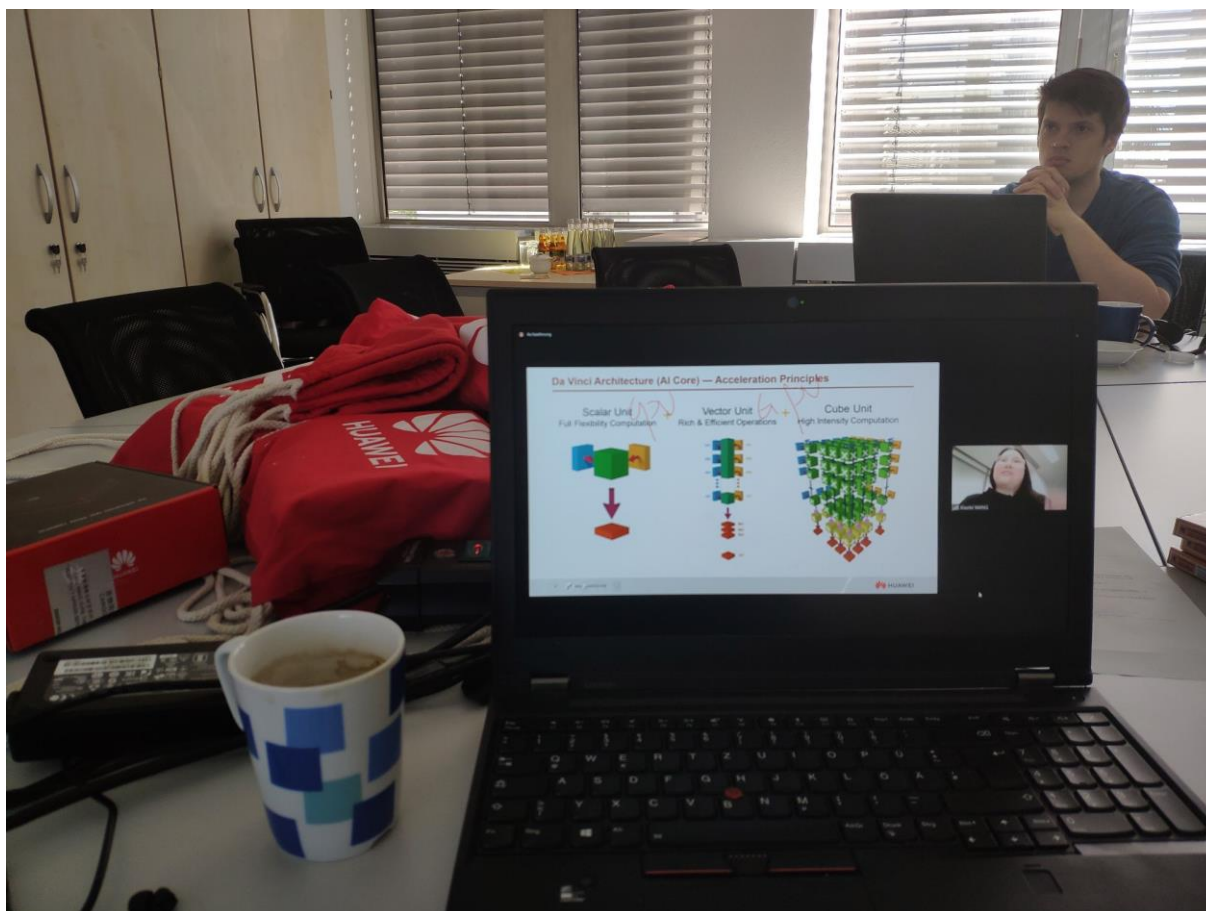
"Our goals and measures are applicable in terms of high priority, rapid response and best practices. In a kind of so called sandboxes, new concepts are playfully tested on the basis of a reliable IT infrastructure," says Prof. Jivka Ovtcharova, founder of CAIT and head of IMI.

From 20 to 22 April 2020 a first talent training in the field of Network & AI for Industrial 4.0 took place at CAIT.

The Huawei-KIT Joint Curriculum will lead the participants through the AI technology basics, hardware and software architectures with the use of Huawei Atlas200 Developer Kit (for developers), part of Huawei AI full stack solution as well as the MindSpore and ModelArts training procedures.

In-depth training helped the participants to practice the basic concepts of AI, deep learning, and artificial neural network, while getting more familiar with the state of art AI computing platform including AI chip, mainstream deep learning framework and modern software development environment. Huawei has provided 100 Atlas200 Developer Kit, necessary for the student trainings, free of charge.

"Huawei appreciates the efforts of KIT in training AI talents. We are very pleased to provide advanced technical equipment and expertise to KIT. Thus Huawei is contributing to the development of the AI landscape in Germany." Says David Wang, Chief Representative of Huawei Berlin Office.

A series of AI trainings based on the "Train-the-Trainer" approach will follow in the next months, whereas Huawei will train several KIT AI trainers in the course of 2 training sessions, and those KIT trainers will train students, researchers from cross disciplinary areas and cooperation partners from various industrial sectors. Such trainings will be held predominantly online, especially taking into consideration the ongoing Covid 19 pandemic.

KIT is one of the biggest research and education institutions in Germany and worldwide and has a top position in selected research areas on an international level.

About Huawei

Huawei Technologies is one of the world's leading providers of information technology and telecommunications solutions. More than a third of the world's population and more than half of the German population use Huawei's technology directly or indirectly. The company, headquartered in Shenzhen, has 194,000 employees worldwide and is active in 170 countries with its three business groups Carrier Network, Enterprise Business and Consumer Business. Huawei employs more than 96,000 people in research and development, operates 16 research and development clusters and, together with partners, 28 innovation centers worldwide. Huawei has been active in Germany since 2001 and employs over 2,500 people at 18 locations. Huawei's largest European research center is located in Munich.

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