



SUMMER SCHOOL

Practical Training in Research and Industry for Upcoming AI Talents

October 19 – 23, 2020

KARLSRUHE INSTITUTE OF TECHNOLOGY



SUMMER SCHOOL OCTOBER 19 – 23, 2020 PROGRAM

Monday, 19 October 2020

- 13:30 Welcome
- 14:00 Lecture „General introduction on AI“
- 16:00 Break
- 16:30 Workshop „Imagine applications of AI in your PhD“
- 18:00 Free Time

Tuesday, 20 October 2020

- 09:00 Lecture „German vision of AI in research“
- 10:30 Break
- 11:00 Lecture „French vision of AI in research“
- 12:30 Lunch
- 14:00 Round Table „Going beyond with AI“
- 15:30 Break / Demos
- 17:00 Practical course „AI sandboxes“ (IMI)
- 19:00 Karaoke

Wednesday, 21 October 2020

- 09:00 Lecture „French vision of AI in industry“
- 10:30 Break
- 11:00 Lecture „German vision of AI in industry“
- 12:30 Lunch
- 14:00 Round Table „Going beyond with AI“
- 16:30 Visit ZKM
- 19:00 Dinner

Thursday, 22 October 2020

Visit of Huawei Research Center, Munich

Friday, 23 October 2020

- 09:00 Lecture „Societal impacts of AI“
- 10:30 Break
- 11:00 Practical course „AI sandboxes“ (IMI)
- 12:30 Lunch
- 14:00 Departure (opportunity to visit Baden-Baden)

PRACTICAL TRAINING IN RESEARCH AND INDUSTRY FOR UPCOMING AI TALENTS

Artificial intelligence is omnipresent in our society and in particular in the context of industry 4.0. This workshop aims to reflect the French and German vision for artificial intelligence, in order to develop advanced skills in this area.

Researchers will strive to harness their creativity to address real industrial problems using emerging AI methods and technologies. The societal impacts of AI will also be addressed and field trips to industrial partners are planned.



LISPEN ARTS ET MÉTIERS

The LISPEN (Laboratory of Cyber-physical Systems Engineering) gathers around 100 staff members (professors, engineers, PhD students, administrative and technical personnel) located in Aix, Chalon-sur-Saône and Lille campuses of Arts et Métiers. Research works focus on managing the development and exploitation of multi-physical and virtual dynamic systems for the industry of the future.

Institute image research team is integrated in the LISPEN and seeks for the digitalization of engineering through Virtual and Augmented Reality and its 400m² platform including a 5-sided 4K double-viewpoint CAVE system. The scientific topics relate to intelligent customized multi-sensory immersive VR environments, digital twins, and the effects of VR/AR on users, with applications to industry, driving simulation, training and health. It cultivates strong collaborations with industry thanks to joint public-private laboratories (Renault - LiV) and collaborative projects.

IMI KIT

The Institute for Information Management in Engineering (IMI) develops scientific methods and IT solutions for the holistic process and systems engineering management in entire life cycles. IMI's research fields Process Management (PM), Artificial Intelligence (AI), Virtual Engineering (VE), Smart Immersive Environments (SIE) and Digital Twin (DT) complement one another within the context of industry 4.0. In particular, a scalable and flexible VR/AR/MR environment is available for professional training in interdisciplinary practical solutions to digital hubs, start-ups, SMEs and OEMs.

Recently, a novel Center for Artificial Intelligence Talents (CAIT) has been established to transform AI understanding into personal and professional skills quickly and in an action-oriented way, based on AI experiences and infrastructure of IMI. Special attention is given to university education in order to allow students and young researchers the opportunity to understand and experience interactions around AI in a cross-disciplinary and playful way, like in a „holodeck“.

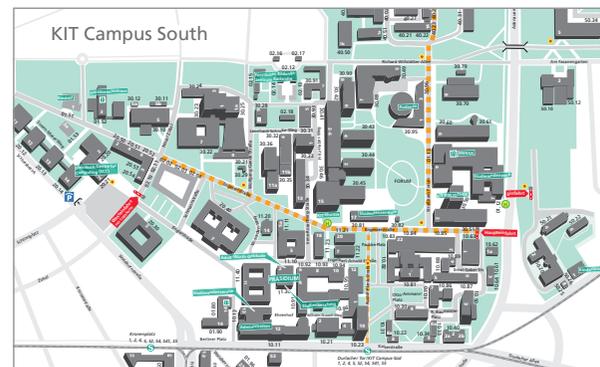
FRENCH-GERMAN INSTITUTE FOR INDUSTRY OF THE FUTURE

Europe's industrial future has to be envisioned and designed to cross borders and be prepared to face the challenges of the 4th industrial revolution in order to strengthen its economy. France and Germany play a major role in this challenge and aim to enhance Europe's industrial competitiveness through bilateral cooperation.

In this framework, Karlsruhe Institute of Technology (KIT) and Arts et Métiers Institute of Technology have now joined their strengths by the creation of the French-German Institute for "Industry of the Future" that was initiated by signing an MoU in April 2016. The French-German Institute builds on a strong relationship between KIT and Arts et Métiers Institute of Technology spanning over 20 years in education through a double degree, a doctoral school with joint PhDs, and summer schools. It aims to bring together academics, industry, and start-ups on a collaborative platform in order to strengthen research, innovation, and higher education for the Industry of the Future.

Event Venue

Karlsruhe Institute of Technology
76131 Karlsruhe, Germany



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