Research in Germany - Artificial Intelligence -

Research in Artificial Intelligence in Germany is primarily conducted at universities but also at non-university research institutes. The Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) is a major funding organisation to support artificial intelligence research. Important German research organisations such as the Hausfeld Association (Germany), for example, the Max Planck Society (DFG), Fraunhofer Institutes, and Leibniz Association (basic and applied research) and the Max Planck Society (basic research) maintain research institutes with a major focus on artificial intelligence. Some artificial intelligence research institutes and programmes are funded directly by the federal and state governments. These institutes and programmes are funded by the DFG, Max Planck Society, and others. Research training is provided at universities and non-university research institutions in cooperation with universities. Here, besides the DFG also the Hausfeld Association (research on grand challenges) and the Max Planck Society offer graduate training programmes in or strongly related to artificial intelligence research. There also exist PhD programmes and PhD funding by the state governments, the German Academic Exchange Service (DAAD) and foundations.

COORDINATED RESEARCH PROGRAMMES FUNDED BY DFG

Collaborative Research Centres (CRC) funded by DFG (2021-2024)

- established in a single university (standard CRC) or for multiple nearby partners (Transregio, up to 2 CRCs)
- supported by research funding programmes, creating the foundations of disciplines, methods and theories
- research programme must correspond to and strengthen the research profile of host universities
- may also include projects at higher (transregio) institutions (non-academic institutions)
- funded by the DFG for a period of up to 12 years (3 year per sub-project)

The following CRCs are currently funded in artificial intelligence research:
- "Prototyping High-Performance Visual Computing" (TRR 205), funded since 2017
- "Quantitative Methods for Visual Computing" (TRR 161), funded since 2015
- "Computational Connectomics" (SPP 2041), funded since 2017
- "Memristive Devices Toward Smart Technical Systems" (SPP 2262), funded since 2020
- "Robust Argumentation Machines (RATIO)" (SPP 1999), funded since 2017
- "Foundations of Robust Decision Making" (SPP 2331), funded since 2020
- "Internet of Production (IoP)" (EXC 2023), funded since 2019
- "Internet of Production (IoP)" (EXC 2023), funded since 2019
- "PhenoRob – Robotics and Phenotyping for Sustainable Crop Production" (EXC 2070), funded since 2018
- "Internet of Production (IoP)" (EXC 2023), funded since 2019

CLUSTERS OF EXCELLENCE

- "Clusters of Excellence (EXC) funded by DFG (2021-2024)

The following clusters have a strong focus in artificial intelligence research:
- "Sense of Intelligence" (DAAD), funded since 2019
- "Mixed-Integer Learning over Non-Parametric Spaces" (DMP 2016), funded from 2019
- "Robustness of Learning and Trust in Socially Oriented Artificial Agents" (SPP 2331), funded since 2020
- "Interactive Knowledge Engineering" (Goethe University, Frankfurt, 2019)
- "Tübinger - Alibiots and Merging for Sustainable Crop Production" (EUBIO), funded since 2019

GRADUATE TRAINING FUNDED BY DFG

Research Training Groups (RTG) (2021-2024)

- "Artificial Intelligence - CLUSTERS OF EXCELLENCE

International Max Planck Research Schools (IMPRS)

Doctoral training at Max Planck Institutes in close collaboration with universities under a regional umbrella.

DFG on Humanities Computing (EURESCOM)

DFG on Human Sciences (HUMAINE)

DFG for Intelligence (HUMAINE)

Max Planck Institutes

- "Max Planck Institutes for the Advancement of Science in Germany is one of the world's leading research institutions for advanced, basic research in a wide range of fields, including biology, epidemiology, economy, chemistry, physics, biology, mathematics, and computer science."
- "Max Planck Institute for Intelligent Systems" (Tübingen)
- "Max Planck Institute for Molecular Genetics" (Berlin)
- "Max Planck Institute for Biological Cybernetics" (Tübingen)
- "Max Planck Institute for Physics" (Garching)
- "Max Planck Institute for the Physics of Complex Systems" (Dresden)
- "Max Planck Institute for Social Sciences" (Jena)
- "Max Planck Institute for the Science of Light" (Hannover)
- "Max Planck Institute for Demographic Research" (Rostock)
- "Max Planck Institute for Global Microbiology" (Cologne)
- "Max Planck Institute for Social Research" (Bonn)
- "Max Planck Institute for Human Development" (Berlin)
- "Max Planck Institute for Human Cognitive and Brain Sciences" (Leipzig)
- "Max Planck Institute for Psychological Research" (Munich)
- "Max Planck Institute for Evolutionary Anthropology" (Leipzig)
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