German Research Center for Artificial Intelligence

German Research Center for Artificial Intelligence
Company Profile

| Kaiserslautern Site | Saarbrücken Site | Bremen Site | Niedersachsen Site Osnabrück and Oldenburg | Laboratory Berlin | Laboratory Darmstadt |

Thomas Ott / TU Darmstadt

▶ Established

1988, non-profit organization
(public-private partnership)

▶ Executive Board

- ▶ Prof. Dr. Antonio Krüger
- ▶ Helmut Ditzer

▶ Supervisory Board

- ▶ Dr. Ferri Abolhassan, Deutsche Telekom AG, Chair
- ▶ Elena Yorgova-Ramanauskas, State Secretary at the Saarland Ministry of Economic Affairs, Innovation, Digital Affairs and Energy, Vice Chairwoman

▶ Locations

Kaiserslautern (registered office), Saarbrücken, Bremen, Niedersachsen, laboratories in Berlin and Darmstadt and branch offices in Lübeck and Trier

▶ Shareholders

Accenture, Airbus Group, Bilfinger SE, BMW AG, Cerence GmbH, CLAAS KGaA mbH, Daimler AG, Deutsche Börse AG, Deutsche Messe AG, Deutsche Telekom AG, Empolis Information Management GmbH, Fraunhofer Gesellschaft e.V., Google Inc., HARTING AG & Co. KG, Intel Corporation, John Deere GmbH & Co. KG, KIBG GmbH, Microsoft Deutschland GmbH, Münchener Rückversicherungs-Gesellschaft Aktiengesellschaft in München, NVIDIA GmbH, RICOH Company Ltd., Robert Bosch GmbH, ROSEN Swiss AG, SAP SE, Sartorius Ventures GmbH, Schwarz-Gruppe, Software AG, Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau, Universität Bremen, Universität des Saarlandes, Volkswagen AG, VSE AG, ZF Friedrichshafen AG

▶ Equity Holding

DFKI Industrials GmbH, Bremen
EIT ICT Labs Germany GmbH, Berlin
GraphicsVision.AI GmbH, Kaiserslautern

▶ Key Figures

- ▶ Annual Budget 2022: € 82.6 million
- ▶ Professional staff: 928
- ▶ Graduate student staff: 634

Intelligent Solutions for the Knowledge Society

The German Research Center for Artificial Intelligence (DFKI) was founded in 1988 as a non-profit public-private partnership. It has research facilities in Kaiserslautern, Saarbrücken, Bremen and Niedersachsen, laboratories in Berlin and Darmstadt and branch offices in Lübeck and Trier. In the field of innovative commercial software technology using Artificial Intelligence, DFKI is the leading research center in Germany.

Based on application oriented basic research, DFKI develops product functions, prototypes and patentable solutions in the field of information and communication technology. Research and development projects are conducted in 28 research departments, nine competence centers and eight living labs. Funding is received from government agencies like the European Union, the Federal Ministry of Education and Research (BMBF), the Federal Ministry for Economic Affairs and Climate Action (BMWK), the German Federal States and the German Research Foundation (DFG), as well as from cooperation with industrial partners. Twice a year, a committee of internationally renowned experts (Scientific Advisory Board) audits the progress and results of state-funded projects.

Apart from the state governments of Rhineland-Palatinate, Saarland and Bremen, numerous renowned German and international high-tech companies from a wide range of industrial sectors are represented on the DFKI supervisory board. The DFKI model of a non-profit public-private partnership (ppp) is nationally and internationally considered a blueprint for corporate structure in the field of top-level research.

DFKI is actively involved in numerous organizations representing and continuously advancing Germany as an excellent location for cutting-edge research and technology. Far beyond the country's borders DFKI enjoys an excellent reputation for its academic training of young scientists. At present, approx. 925 highly qualified researchers, administrators and 630 graduate students from more than 75 countries are contributing to more than 565 DFKI research projects. DFKI serves as a stepping stone to leading positions in industry and successful careers as founders of spin-off companies. Over the years, more than 170 staff members have been appointed professors at universities in Germany and abroad.

CONTACT

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Corporate Spokesperson

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Research & Development

▶ Research Departments

Kaiserslautern Site
- ▶ Prof. Dr. Prof. h.c. Andreas Dengel .... Smart Data & Knowledge Services
- ▶ Prof. Dr. Paul Lukowicz .... Embedded Intelligence
- ▶ Prof. Dr. Martin Ruskowski .... Innovative Factory Systems
- ▶ Prof. Dr. Hans Schotten .... Intelligent Networks
- ▶ Prof. Dr. Didier Stricker .... Augmented Vision
- ▶ Prof. Dr. Sebastian Vollmer....................... Data Science and its Applications

Saarbrücken Site
- ▶ Prof. Dr. Josef van Genabith .... Multilinguality and Language Technology
- ▶ Prof. Dr. Antonio Krüger .... Cognitive Assistants
- ▶ Prof. Dr. Peter Loos .... Institute for Information Systems
- ▶ Prof. Dr. Wolfgang Maaß .... Smart Service Engineering
- ▶ Prof. Dr. Philipp Slusallek .... Agents and Simulated Reality
- ▶ Prof. Dr. Verena Wolf .... Neuro-mechanistic Modelling

Bremen Site
- ▶ Prof. Dr. Rolf Drechsler .... Cyber-Physical Systems
- ▶ Prof. Dr. Dr. h.c. Frank Kirchner .... Robotics Innovation Center (RIC)

Niedersachsen Site
Osnabrück:
- ▶ Prof. Dr. Joachim Hertzberg .... Plan-Based Robot Control
- ▶ Prof. Dr. Oliver Thomas .... Smart Enterprise Engineering

Oldenburg:
- ▶ Prof. Dr. Daniel Sonntag .... Interactive Machine Learning
- ▶ Dr. Frederic Stahl, komm. .... Marine Perception

Laboratory Berlin
- ▶ Prof. Dr. Gesche Joost .... Interactive Textiles
- ▶ Prof. Dr. Volker Markl .... Intelligent Analytics for Massive Data
- ▶ Prof. Dr. Sebastian Möller .... Speech and Language Technology
- ▶ Prof. Dr. Niels Pinkwart .... Educational Technology Lab

Labor Darmstadt
- ▶ Prof. Dr. Carsten Binnig............................ Systems AI for Decision Support
- ▶ Prof. Dr. Kristian Kersting .... Foundations of Systems AI
- ▶ Prof. Dr. Jan Peters .... Systems AI for Robot Learning

Branch Office Lübeck
- ▶ Prof. Dr. Heinz Handels .... AI in Medical Imaging
- ▶ Prof. Dr. Alfred Mertins .... AI in Biomedical Signal Processing
- ▶ Prof. Dr. Ralf Möller .... Stochastic Relational AI in Healthcare

Lübeck
Bremen
Oldenburg
Berlin
Niedersachsen
Osnabrück
Darmstadt
Trier
Kaiserslautern
Saarbrücken
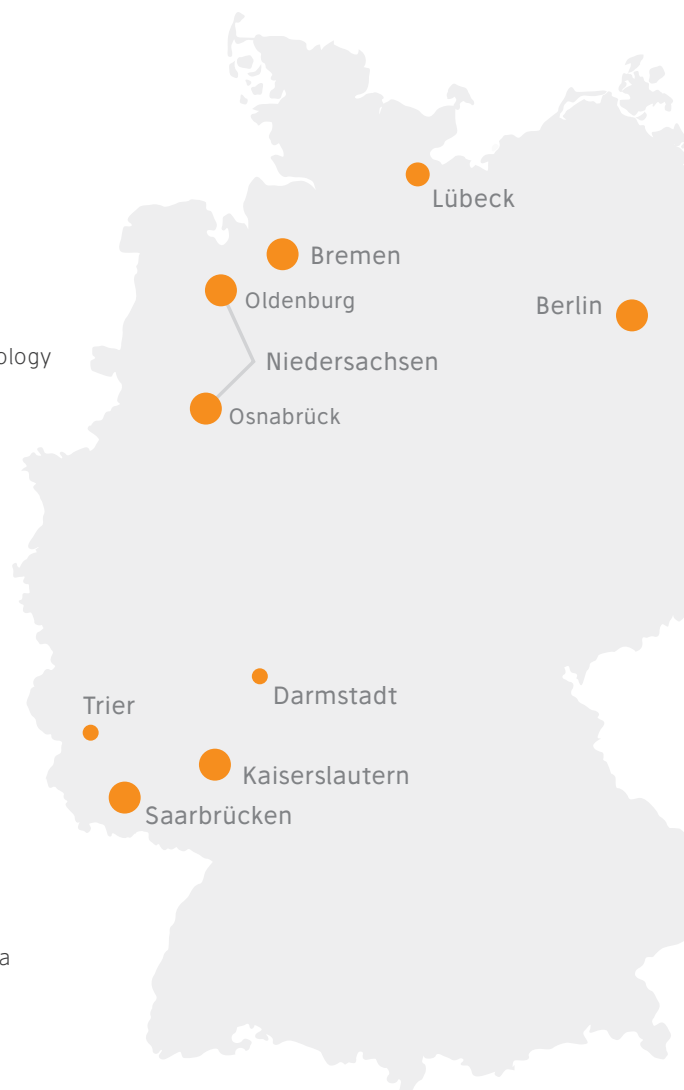
▶ Competence Centers
Coordination of research activities in particular areas

- ▶ AI for Environment and Sustainability
- ▶ Ambient Assisted Living
- ▶ Autonomous Driving
- ▶ Deep Learning
- ▶ Emergency Response and Recovery Management
- ▶ Safe and Secure Systems
- ▶ Semantic Web
- ▶ Smart Agriculture Technologies
- ▶ Wearable AI

▶ Living Labs
Testing, evaluation, and demonstration of innovative technologies in comprehensive application scenarios

- ▶ Advanced Driver Assistance Systems Living Lab
- ▶ Bremen Ambient Assisted Living Lab
- ▶ Immersive Quantified Learning Lab (IQL)
- ▶ Innovative Retail Lab
- ▶ Robotics Exploration Lab
- ▶ Smart City Living Lab
- ▶ SmartFactory-KL
- ▶ Smart Office Space Living Lab

▶ CertLab
Certified testing laboratory for IT security
For the promotion of credible and trustworthy Artificial Intelligence

Scientific Excellence and Transfer

▶ **International Scientific Advisory Board**
Bi-annual evaluation of publically funded projects

- ▶ Prof. Dr. Andreas Butz,
Ludwig-Maximilians-Universität, München, Chairman

▶ **Leading-Edge Research**
DFKI is the only German institute for computer science to participate in each of the three leading-edge research clusters

- ▶ Cluster of Excellence "Multimodal Computing and Interaction" funded by the German Research Foundation (DFG)
- ▶ Leading-Edge Cluster "Software Innovations for the Digital Enterprise" funded by BMBF
- ▶ European Institute of Innovation and Technology (EIT Health & EIT Manufacturing)

▶ **Research Associations**
- ▶ Campus Automatisierung und Digitalisierung
- ▶ FIWARE
- ▶ Science & Innovation Alliance Kaiserslautern and others

▶ **Promoting Young Talent**
- ▶ DFKI is a founding member and core partner of the Software Campus to promote managerial talent in the IT industry

▶ **Academic Chairs**
More than 170 former staff members have been appointed professors at universities in Germany and abroad

▶ **Spin-offs**
103 spin-off companies have created more than 2,500 highly skilled jobs

Committees and Academies

DFKI is represented by its scientific directors on numerous committees and academies

▶ **Scientific and Government Committees**
- ▶ Big Data Value Association
- ▶ Brazilian Institute of Robotics (BIR)
- ▶ Center of Innovation Program of the Japanese Ministry of Education (COI)
- ▶ Feldafinger Kreis
- ▶ Informationstechnische Gesellschaft (ITG)
- ▶ Management Board of the International Computer Science Institute in Berkeley
- ▶ Münchner Kreis
- ▶ National Institute of Informatics (NII, Tokio)
- ▶ Präsidium des Verbandes der Elektrotechnik Elektronik Informationstechnik e.V. (VDE)
- ▶ Program Committee of the National Aeronautics and S pace Research Centre DLR
- ▶ Steering Committee of the German Informatics Society (GI) and others

▶ **Business Committees**
- ▶ Digital Stationery Consortium
- ▶ Flexible Factory Partner Alliance (FFPA)
- ▶ 5G Alliance for Connected Industries and Automation (5G-ACIA) and others

▶ **Scientific Academies**
- ▶ Academy of Sciences and Literature
- ▶ Berlin-Brandenburg, Academy of Sciences
- ▶ European Academy of Sciences
- ▶ German National Academy of Sciences Leopoldina
- ▶ National Academy of Science and Engineering
- ▶ Royal Swedish Academy of Sciences and others

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