German Research Center for Artificial Intelligence

Company Profile

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 and Bremen, a project office in Berlin, a laboratory in Niedersachsen 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 25 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 (BMWi), 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. 800 highly qualified researchers, administrators and 560 graduate students from more than 65 countries are contributing to more than 400 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 160 staff members have been appointed professors at universities in Germany and abroad.

CONTACT

Reinhard Karger M.A.
Corporate Spokesperson
Deutsches Forschungszentrum für Künstliche Intelligenz GmbH
Campus D3 2
66123 Saarbrücken, Germany
Phone: +49 681 85775 5253
Fax: +49 681 85775 5485
uk@dfki.de
www.dfki.de
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. Jana Koehler: Algorithmic Business and Production
- Prof. Dr. Antonio Krüger: Cognitive Assistants
- Prof. Dr. Peter Loos: Institute for Information Systems
- Prof. Dr. Wolfgang Maß: Smart Service Engineering
- Prof. Dr. Philipp Slusallek: Agents and Simulated Reality

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

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

Laboratory Niedersachsen

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

Oldenburg:
- Prof. Dr. Daniel Sonntag: Interactive Machine Learning
- Prof. Dr. Oliver Zielinski: Marine Perception

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

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

Service

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 160 former staff members have been appointed professors at universities in Germany and abroad

▶ **Spin-offs**
99 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 Space 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

Kaiserslautern Site
Trippsstadter Straße 122
67663 Kaiserslautern, Germany
Phone: +49 631 20575 0

Project Office Berlin
Alt-Moabit 91c
10559 Berlin, Germany
Phone: +49 30 23895 0

Saarbrücken Site
Saarland Informatics Campus D3 2
66123 Saarbrücken, Germany
Phone: +49 681 85775 0

Laboratory Niedersachsen
Berghoffstraße 11
49090 Osnabrück, Germany
Phone: +49 541 386050 0

Bremen Site
Robert-Hooke-Str. 1
28359 Bremen, Germany
Phone: +49 421 17845 0

Branch Office Lübeck
Ratzeburger Allee 160,
Building 64, 2nd floor, Room 29
23562 Lübeck, Germany

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www.dfki.de | info@dfki.de