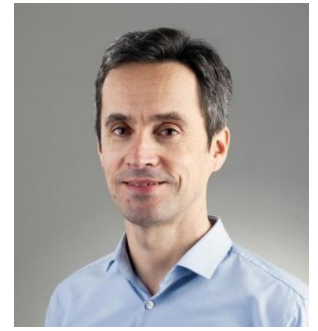


Dr. Alain PAGANI

Principal Researcher

German Research Center for Artificial Intelligence
DFKI GmbH
Kaiserslautern, Germany



EXPERTISE

Principal Research, Research Fellow and Deputy head of the department "Augmented Vision" at DFKI

20 years of applied research experience in digital signal processing for visual and multimodal signals. 10 years of experience as deputy head of a research department at DFKI
Author of over 110 scientific publications, h-index: 30

WORK EXPERIENCE

Since 2023

Principal Researcher German Research Center for Artificial Intelligence - DFKI GmbH Kaiserslautern, Germany

Expert in digital signal processing for visual, spatial, and multimodal sensor data. Over 20 years of experience in both academic research and applied industrial projects. More than 110 publications in peer reviewed conferences and journals. Coordinator and Principal Investigator of the EU Network of Excellence "dAIEDGE" (2023-2026) about AI at the edge. Coordinator and Principal Investigator of the EU project "CORTEX2" (2022-2025) about vision systems for tele-cooperation. Leader of the projects "FLUENTLY" (2022-2025) about human-robot cooperation in industrial settings, "HAIKU" (2022-2025) about explainable AI for safe air transportation and "ExtremeXP" (2023-2025) about AI for extremely large and diverse data. Member of the ELLIS Society since 2025. Supervision of PhD students in the area of real-time vision algorithms, deep learning, fusion of vision and language models.

Since 2022

DFKI Research Fellow German Research Center for Artificial Intelligence - DFKI GmbH Kaiserslautern, Germany

Since 2015

Deputy Director of Augmented Vision department German Research Center for Artificial Intelligence - DFKI GmbH Kaiserslautern, Germany

Deputy director and Team Leader at the Augmented Vision Department at DFKI. Member of the management board of a research department with 50-60 employees. Contribution to departmental strategy and long term research planning. Team leader of a researcher team of 10 members, including PhD candidates and senior researchers. Project acquisition activities for publicly funded research projects (EU and national, >1Mio €/Year) and industrial contracts.

2014-2023

Senior Researcher German Research Center for Artificial Intelligence - DFKI GmbH Kaiserslautern, Germany

Senior Researcher in the areas of Computer Vision and Artificial Intelligence. Lead of the Computer Vision group in the Augmented Vision department. Leader of the projects "Eyes of Things" (2015-2017) about miniaturized low-power and ubiquitous Computer Vision, "LARA" (2015-2017) about Assistive Systems using Augmented Reality and Galileo localization, "Co2Team" (2019-2021) about AI assisted single pilot operation, "HyperCOG" (2019-2023) about AI for automation of industrial plants and "MOVEON" (2020-2023) about vision-based SLAM systems with high-level representations, as well as several industrial projects. Acquisition of publicly funded projects (national and EU) as well as negotiation of direct industrial research and development contracts.

- 2008 - 2014 **Researcher**
German Research Center for Artificial Intelligence - DFKI GmbH
Kaiserslautern, Germany
Research in 3D reconstruction with one or multiple cameras and real-time object tracking. Leader of the CAPTURE (2009-2012), OnEye (2010-2013) and several other industrial projects.
- 2005 - 2008 **Researcher**
Fraunhofer Institute for Computer Graphics (IGD)
Darmstadt, Germany
Research in the field of vision-based tracking systems. Leader of work packages in European research projects (IMPROVE, SKILLS) and industrial projects.
- 2003 - 2004 **Software Developer**
Amadeus IT Group, Optalan S.A.S - Sophia Antipolis, France.
Design and development of innovative modules of a global flight reservation system.

EDUCATION

- 2008 - 2014 **PhD at the Technical University of Kaiserslautern (Kaiserslautern, Germany)**
PhD studies in parallel to other professional activities at DFKI.
Dissertation published under the title "**Reality Models for efficient registration in Augmented Reality**", Dr Hut Verlag, 2015.
- 2000 -2002 **Darmstadt University of Technology (Darmstadt, Germany) :**
Master of Science degree in Computer science with specialization in computer vision, image analysis, pattern recognition, machine learning.
Master thesis at Fraunhofer IGD, "Integration of Virtual Objects into an Image from a Single View", INI-GraphicsNet **Best Thesis Award**
Degree: *Diplom Ingenieur of the TU Darmstadt (Master of Science)*
- 2000 **University of Maryland (College Park, MD, USA):**
Internship in the LAMP multimedia lab (video analysis) with Dr. Daniel DeMenthon.
Conception and development of a video segmentation program for MPEG-2 files.
- 1998 - 2000 **Ecole Centrale de Lyon (Engineering school, Ecully, France) :**
Master of Engineering with specialization in computer science, physics, mathematics
Degree: *Diplôme d'Ingénieur de l'Ecole Centrale de Lyon (Master of Engineering)*