CURRICULUM VITAE

Name	Prof. Dr.-Ing. Stephan Kallweit
Date of Birth	09.04.1966 in Berlin
University Address	Mobile Autonomous Systems & Cognitive Robotics Institute (MASCOR) FH Aachen, University of Applied Sciences Dpt. of Mechanical Engineering and Mechatronics, Goethestr. 1, 52064 Aachen, Germany kallweit@fh-aachen.de Fon: +49(0)241/6009-52348

UNIVERSITY EDUCATION

Studies	Dipl.-Ing. in Mechanical Engineering, Turbomachinery and Hydraulics, TU Berlin, April 1985 – October 1991, (Grade: Very Good)
Academic Grade	January 1995, Dr.-Ing., Dissertation: „Investigation of Knowledge based Systems for Diagnoses of Hydraulic Turbomachinery", (Grade: Summa cum Laude)
Main Topics	Automation, Artificial Intelligence, Neural Networks, Fluid Mechanics, Turbomachinery, Measuring Techniques, Laser optical Measuring Techniques

WORK EXPERIENCE

October 1991 - February 1992	Project Engineer at Gier&Partner Industrieanlagen GmbH
March 1992 – January 1995	Research Fellow at TU Berlin „Institut für Hydraulische Strömungsmaschinen" (Hydraulic Turbomachinery) Prof. Dr.-Ing. H. Siekmann, Work for DFG Research Project „Inducer", KSB Research Project „Investigation of dynamic Operating Parameters for the Automation of Pump stations"
March 1995	Managing Director of ILA GmbH Jülich, Head of Technical Development and Sales for Laser Optical Flow Measurement Techniques (LDV, PIV and LiF)
Since April 2011	Professor at the University of Applied Sciences Aachen for Automation Technology and Robotics, Department of Mechanical Engineering and Mechatronics, Founder Member of the Institute for Mobile Autonomous Systems and Cognitive Robotics (MASCOR) at FH Aachen, Founder Member of IaAM (Institute for Applied Automation and Mechatronics), FH Aachen, Prof. Extraordinary at Tshwane University of Technology

RESEARCH TOPICS

Robotics	Autonomous Mobile Systems, UAV Technology, Robot based Assembly, Humanoid Robotics, Collaborating Systems, Maintenance Robots for Wind Turbines
Digital Image Processing	3D-Reconstruction, Stereo-Vision, Correlation based Processing, High-Power-LEDs, Tracking Systems, Structured Light, Neural Networks
Measuring Techniques	LIDAR, Laser Doppler and Particle Image Velocimetry
Robotics Competitions	Finalist at MBZIRC 2017 and 2020, Participant of Grand Challenge 2017 and 2020

RECENT PUBLICATIONS

[1] **A robot-assisted large-scale inspection of wind turbine blades in manufacturing using an autonomous mobile manipulator,** Applied Sciences. 11 (2021), H. 19. page: 1 – 22, Special Issue**,**

[2] **AutoSynPose: Automatic Generation of Synthetic Datasets for 6D Object Pose Estimation**, Machine Learning and Artificial Intelligence. Proceedings of MLIS 2020. Amsterdam

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