



Kai Pfeiffer

Robotic Researcher



12 April 1990



Japan



<http://pfeiffer-kai.github.io>

Skills

C++



matlab



Teamplayer



FEM Abaqus



Languages

German



English



Japanese



Spanish



Education

since 2016	Ph.D. candidate in Robotics <i>Multi-contact control of humanoid robots for locomotion and manipulation in constrained environment.</i>	AIST-JRL, Tsukuba, Japan
2013-2016	M.Sc., Grade 1.4 Majoring in Numerical Methods for Continuum Mechanics	KIT, Karlsruhe, Germany
2010-2013	B.Sc., Grade 2.0 Majoring in Mechanical Engineering	KIT, Karlsruhe, Germany
2000-2009	High school, Grade 1.6 Specializing in mathematics and physics.	Riemenschneider-Gymnasium, Wuerzburg, Germany

Publications

2018	K. Pfeiffer, A. Escande and A. Kheddar. Singularity Resolution in Equality and Inequality Constrained Hierarchical Task-Space Control by Adaptive Nonlinear Least Squares. IEEE Robotics and Automation Letters.
2018	Vincent Bonnet, Kai Pfeiffer, Philippe Fraisse, André Crosnier, Gentiane Venture. Self-Generation of Optimal Exciting Motions for Identification of a Humanoid Robot. International Journal of Humanoid Robotics.
2017	K. Pfeiffer, A. Escande and A. Kheddar. Nut fastening with a humanoid robot. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS).

Experience

05/18	Coursera Machine Learning	Online course
09/15 - 02/16	Bosch Japan Exoskeleton development	Internship
02/15	KIT Practical Training in Measurement of Vibrations	University course
10/13 - 02/14	Bosch Germany FEM analysis of car window regulators for noise reduction.	Internship
10/09 - 06/10	Obligatory German military service Basic military training	

Interests

Sports (swimming, running, surfing, snowboarding, hiking, bicycling)
Travelling, mostly backpacking