

Dr. Alexander Sung



Background

- 1988 - 1997: Bismarck-Gymnasium (high school) in Karlsruhe
- 1998 - 2004: Studies of Computer Science at the [University of Karlsruhe](#)
- 2001 - 2003: [Nortel Networks industrial scholarship](#)
- 03/2004: external Diploma thesis in the group of [Prof. Martin Riedmiller](#)
- since 07/2004: research assistant at the Department of Computer Architecture, Eberhard-Karls-University Tübingen

Research Interests

- Model-based optimization
- Evolutionary algorithms
- Neural Networks and other regression methods
- Dynamical systems

Projects

- Project "Optimization of combustion engines" in cooperation with BMW Group

Publications

Reinforcement Learning Using a Grid Based Function Approximator [[pdf](#)]

Alexander Sung, Artur Merke, Martin Riedmiller

[AI-Workshop on NeuroBotics](#), [27th German Conference on Artificial Intelligence](#), Ulm, 2004

[Biomimetic Neural Learning for Intelligent Robots](#), pp. 235-244, Springer-Verlag (LNAI 3575), ISBN 978-3-540-27440-7, 2005

Modellbasierte Online-Optimierung in der Simulation und am Motorenprüfstand [[pdf](#)]

Alexander Sung, Florian Klöpper, Alexander Mitterer, Georg Wachtmeister, Andreas Zell

[MTZ Motortechnische Zeitschrift](#) 01/2007, pp. 43-48, ISSN 0024-8525 10814, 2007

Target Value Prediction For Online Optimization At Engine Test Beds

Alexander Sung, Florian Klöpper, Alexander Vogel, Andreas Zell

[4th International Conference on Informatics in Control, Automation and Robotics](#)

[\(ICINCO'07\)](#), Angers, France, 2007

[Conference Proceedings](#), pp. 108-115, 2007

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