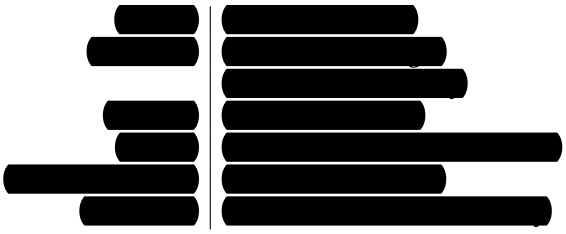
Curriculum Vitae

Personal Data



Work Experience

Current
October 2017

Fraunhofer Institute for High Frequency Physics and Radar Techniques
Scientist for processing and modeling of Radar signals

2022 - Creation of working group for Joint Communications and Sensing
6G Research project 6GEM
- Implementation of consensus-based synchronization algorithm
- Development of sensing approaches for Joint Communications and Sensing based on wireless communication system architectures

2020 - 2023 Horizon 2020 MSCA MENELAOS^{NT}
- Project lead of the institute
- Supervision of PhD work on fusion of information from multiple Radar signals of disjoint bands based on Compressed Sensing

2019 - 2021 Synchronization for radar networks based on consensus algorithms
- Derivation of an algorithm for synthesis of virtual global clock using on local clock values based on a multi-agent system structure and exchange of timing information only between neighbouring agents

2017 - 2019 Analysis of methods for Dual-Function Radar-Communication

Summer term
2018, 2019, 2020

TH Köln
Assistant lecturer
Courses on time-discrete control theory and model predictive control/system identification

August 2017
September 2012

TH Köln
Scientific assistant for control theory and system identification
Projects focusing on controller implementation in an industrial environment. Preparation of courses on time-discrete control theory and model predictive control/system identification. Acquisition of basic knowledge of Control Performance Monitoring.

September 2010
October 2009

Evonik Industries
Engineer for instrumentation and control engineering

March 2006
July 2005

Military service

Education

June 2018

Doctor of Engineering
University of Duisburg-Essen, Duisburg, Germany
Thesis: "Recursive Subspace Identification in a Hilbert Space Framework" | Supervisor: Univ.-Prof. Dirk Söffker

Andreas Bathelt, Glaskeramikweg 5, 51143 Köln, Germany, Tel.: +49 2203 9618951

Derivation of an universal recursive approach for data-based model estimation (estimation of model structure as well as model parametrization) within the scope of subspace identification methods based on the underlying geometric relationships of stochastic processes. Implementation of an algorithm for adaptive, multi-variate system identification and model-free state estimation/model-free Kalman Filter.

SEPTEMBER 2012 Master of Science in Electrical Engineering
Hochschule Mannheim – University of Applied Sciences, Mannheim, Germany
Field: Automation and Energy Systems | Grade: 1.2

SEPTEMBER 2009 Bachelor of Engineering in Electrical Engineering
Baden-Wuerttemberg Cooperative State University, Mannheim, Germany
Field: Automation | Grade: 1.8

JUNE 2005 Abitur
Fürstenberger Gymnasium, Eisenhüttenstadt, Germany
Grade: 2.0

AWARDS

2013 **AALE Student Award (Category Master's degree)**
INTERNATIONALE KONFERENZ FÜR ANGEWANDTE AUTOMATISIERUNGSTECHNIK IN LEHRE UND ENTWICKLUNG
(International conference for applied automation in education and development)

LANGUAGES

ENGLISH Fluent (C1)
JAPANESE (learning not with respect to a JLPT level; stated levels are estimates) vocabulary (N3/N4), grammar (N4), kanji (N1/N2)

COMPUTER SKILLS

BASIC Keysight Advanced Design System
ADVANCED $_{A'}$, Word, Excel, Power Point, Programming (Assembler, C, C++, Delphi, Java etc.)
PROFESSIONAL MATLAB & Simulink

INTERESTS AND ACTIVITIES

Languages, photography
Traveling, guitar playing, development of a control system for model railroad layouts

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