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Research Interests		
Convex Optimization	ion; Dynamical Systems; Monotone Operators	
Appointments		
since $11/2021$	Systems and Control Engineer MTU Aero Engines AG, Munich, Germany	
10/2014 – 07/2015	Graduate Research Assistant Department of Mechanical and Aerospace Engineering University of California, San Diego, CA, USA Advisor: Prof. Jorge Cortés	
06/2012-09/2012	Undergraduate Research Assistant Department of Electrical and Computer Engineering National University of Singapore, Singapore	
EDUCATION		
09/2015 - 10/2021	Ph.D., Mechanical Engineering (pending examination) Institute for Systems Theory and Automatic Control University of Stuttgart, Germany Advisor: Prof. DrIng. Frank Allgöwer	
10/2012 – 08/2015	M.Sc., Engineering Cybernetics University of Stuttgart, Germany	
10/2008 – 09/2012	B.Eng., Mechanical Engineering Deggendorf Institute of Technology, Germany	
Honors and Awa	RDS	
2015	Jacobs Fellowship, University of California, San Diego (declined)	
2014 – 2015	Dr. Jürgen und Irmgard Ulderup Fellowship	
2011–2015	Fellow of German Academic Scholarship Foundation (Studienstiftung des deutschen Volkes)	
2010–2012	Fellow of German Academic Exchange Service (Deutscher Akademischer Austauschdienst)	

TEACHING ASSISTANCE _____

2016 – 2020	Nonlinear Control (Graduate Course), University of Stuttgart
Summer 2019	Convex Optimization (Graduate Course), University of Stuttgart
2020 – 2021	Systems and Control (Undergraduate Course), University of Stuttgart
Winter 2017	Introduction to Automatic Control (Undergraduate Course),

University of Stuttgart

Professional Service _

Membership in Professional Societies

- since 2015 Society of Industrial and Applied Mathematics (SIAM)
- since 2014 Institute of Electrical and Electronics Engineers (IEEE)
- since 2014 Control Systems Society (CSS)

Reviewer

Automatica; IEEE Control Systems Letters; IEEE Transactions on Automatic Control; Optimization; SIAM Journal on Control and Optimization

Publications _____

Journal Articles

- [J-03] S. K. Niederländer, On the Arrow-Hurwicz differential system for linearly constrained convex minimization, Optimization (2022), submitted.
- [J-02] S. K. Niederländer, Second-order dynamics with Hessian-driven damping for linearly constrained convex minimization, SIAM J. Control Optim., 59 (2021), pp. 3708-3736.
- [J-01] J. Cortés and S. K. Niederländer, Distributed coordination for nonsmooth convex optimization via saddle-point dynamics, J. Nonlinear Sci., 29 (2019), pp. 1247-1272.

Conference Proceedings

- [C-03] S. K. Niederländer, A Liénard-type differential system for multi-block structured convex minimization, in Proc. Am. Control Conf., San Diego, CA, USA, 2023, submitted.
- [C-02] S. K. Niederländer, F. Allgöwer and J. Cortés, Exponentially fast distributed coordination for nonsmooth convex optimization, in Proc. IEEE Conf. Decis. Control, Las Vegas, NV, USA, 2016, pp. 1036-1041.
- [C-01] S. K. Niederländer and J. Cortés, Distributed coordination for separable convex optimization with coupling constraints, in Proc. IEEE Conf. Decis. Control, Osaka, Japan, 2015, pp. 694-699.

References ____

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