

# Dr. Sandra Huber

## PERSONAL INFORMATIONEN

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## EDUCATION

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2016 – TODAY	<b>Postdoc</b> LOGISTICS - MANAGEMENT <i>Helmut-Schmidt-Universität</i>
2016	<b>PhD thesis:</b> <b>Interactive Multiobjective Optimization in Supply Chain Management – Local search strategies for Rich Vehicle Routing Problems</b> <i>Helmut-Schmidt-Universität</i>
2013 – 2016	<b>PhD student</b> LOGISTICS - MANAGEMENT <i>Helmut-Schmidt-Universität</i>
2010 – 2011	<b>Master of Science</b> Major Logistic-Management <i>Helmut-Schmidt-Universität</i>
2007 – 2009	<b>Bachelor of Science</b> <i>Helmut-Schmidt-Universität</i>

## PRESENTATIONS (SELECTION)

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- A Matheuristic for the Swap-body Vehicle Routing Problem, 21st Conference of the International Federation of Operational Research Societies, Québec City, Canada, 20.07.2017.
- Determining the order of neighborhood operators in a Variable Neighborhood Search: A study on the Swap-Body Vehicle Routing Problem, Joint seminar – CIRRELT, Université de Montréal, Montréal, Canada, 19.10.2016.
- Strategic decision support for the bi-objective Location-Arc Routing Problem, 49th Annual Hawaii International Conference on System Sciences (HICSS-49), Kauai, HI, USA, January 5-8.
- Dealing with scarce optimization time in complex logistics optimization: A study on the biobjective Swap-Body Inventory Routing Problem, MCDM 2015, Hamburg, Germany, 06.08.2015.
- Swap Body Vehicle Routing Problem: A Heuristic Solution Approach, ICCL 2014, Valparaíso, Chile, 25.09.2014.
- Incorporating preferences of a decision maker in a bi-objective Inventory Routing Problem, VeRoLog 2014, Oslo, Norway, 23.06.2014.

## SCHOLARSHIPS/ AWARDS

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- 2016 **DFG Scholarship**  
*CIRRELT, Université de Montréal, Montréal, Canada*
- 2016 **Scholarship of the Freunde und Förderer der Helmut-Schmidt-Universität e. V.**  
*49th Annual Hawaii International Conference on System Sciences*
- 2015 **Scholarship of the Association of the European Operational Research Societies (EURO) and the International Federation of Operational Research Societies (IFORS)**  
*ELAVIO, Quito, Ecuador*
- 2014 **EURO/ROADEF Challenge 2014**  
*Overall we achieved the third rank (joint work with Martin Josef Geiger, Sebastian Langton, Marius Leschik, Christian Lindorf und Ulrich Tüshaus)*
- 2014 **VeRoLog Solver Challenge 2014**  
*Our solution method was ranked third (joint work with Martin Josef Geiger)*
- 2014 **DAAD Scholarship (German Academic Exchange Service)**  
*5th International Conference on Computational Logistics*
- 2013 **Scholarship of the Université de Bretagne-Sud for a research stay in Lorient, France**

## PUBLICATIONS (SELECTION)

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- Sandra Huber und Martin Josef Geiger (2017): Order matters – A Variable Neighborhood Search for the Swap-Body Vehicle Routing Problem.  
*European Journal of Operational Research*, 263:419–445 .
- Martin Josef Geiger, Sandra Huber, Sebastian Langton, Marius Leschik, Christian Lindorf und Ulrich Tüshaus (2017): Multi-attribute assignment of trains to departures in rolling stock management – A contribution to the EURO/ROADEF 2014 Challenge.  
*Annals of Operations Research*, pages 1–33.
- Sandra Huber (2016): Strategic decision support for the bi-objective Location-Arc Routing Problem. *49th Annual Hawaii International Conference on System Sciences (HICSS-49)*, Kauai, HI, USA, January 5 – 8, *IEEE Computer Society Press*, pages 1407–1416.
- Sandra Huber, Martin Josef Geiger and Marc Sevaux (2015): Simulation of Preference Information in an Interactive Reference Point-Based Method for the Bi-Objective Inventory Routing Problem.  
*Journal of Multi-Criteria Decision Analysis*, 22 (1–2):17–35.
- Sandra Huber and Martin Josef Geiger (2014): Swap Body Vehicle Routing Problem: A Heuristic Solution Approach. *5th International Conference Computational Logistics (ICCL 2014)*, Valparaíso, Chile, September 24 - 26, 2014, Volume 8760 of the series *Lecture Notes in Computer Science*, Rosa G. González-Ramírez, Frederik Schulte, Stefan Voß and Jose A. Ceroni Díaz (editors), Springer International Publishing, pages 16–30.