

## **Publications Christian Stürck**

Christian Stürck (2018):

### **Exakte Methoden und Matheuristiken für das Multi-Mode Resource-Constrained Project Scheduling Problem**

Dissertation. Wissenschaftlicher Verlag Berlin, Berlin.

*Keywords: Multi-mode Resource-Constrained Project Scheduling Problem (MRCPSP), Mathematical Programming, LNS, ILS, Lower Bounds, Matheuristic, Mode Reduction, Pre-processing, MMLIB*

<https://wissenschaftlicher-verlag-berlin.de/pages/bakery/exakte-methoden-und-matheuristiken-fuer-das-multi-mode-resource-constrained-project-scheduling-problem-297.php?searchresult=1&sstring=st%C3%BCrck#Projektplanung>

Christian Stürck (2018):

### **A New Pre-Processing Procedure for the Multi-Mode Resource-Constrained Project Scheduling Problem**

In: M. Caramia, L. Bianco, S. Giordani (eds.): Proceedings of the 16th International Conference on Project Management and Scheduling, pp. 217–220, University of Rome, Rome, Italy

*Keywords: Multi-mode Resource-Constrained Project Scheduling Problem (MRCPSP), Mode Reduction, Pre-processing, MMLIB*

[http://www.pms2018.ing.uniroma2.it/PMS2018\\_Proceedings.pdf](http://www.pms2018.ing.uniroma2.it/PMS2018_Proceedings.pdf)

Christian Stürck (2017):

### **A Mode Reduction Technique for the Multi-Mode Resource-Constrained Project Scheduling Problem**

In: A. Fink (eds.): HSU Institute of Computer Science Research Paper Series, No. 17-01, Helmut Schmidt University, Hamburg, Germany

*Keywords: Multi-mode Resource-Constrained Project Scheduling Problem (MRCPSP), Mode Reduction, Pre-processing, MMLIB*

<http://edoc.sub.uni-hamburg.de/hsu/volltexte/2017/3175/>

Patrick Gerhards, Christian Stürck and Andreas Fink (2017):

**An Adaptive Large Neighborhood Search as a Matheuristic for the Multi-mode Resource-Constrained Project Scheduling Problem**

In: European Journal of Industrial Engineering, Vol. 11, No. 6, pp. 774-791, Inderscience Publishers

*Keywords: Multi-mode Resource-Constrained Project Scheduling Problem (MRCPSP), Matheuristic, Adaptive Large Neighbourhood Search (ALNS), MMLIB*

<https://doi.org/10.1504/EJIE.2017.089101>

Christian Stürck (2017):

**Applying the Corridor Method to the Multi-mode Resource-Constrained Project Scheduling Problem**

In: Proceedings of the 12th Metaheuristics International Conference MIC 2017, pp. 508-510, Universitat Pompeu Fabra, Barcelona, Spain

*Keywords: Multi-mode Resource-Constrained Project Scheduling Problem (MRCPSP), Matheuristic, Corridor Method, MMLIB.*

<http://mic2017.upf.edu/proceedings/>

Christian Stürck and Patrick Gerhards (2018):

**Providing Lower Bounds for the Multi-mode Resource-Constrained Project Scheduling Problem**

In: A. Fink, A. Fügenschuh, M. J. Geiger (eds.): Operations Research Proceedings 2016, Operations Research Proceedings (GOR (Gesellschaft für Operations Research e.V.)), pp. 551-557, Springer, Cham

*Keywords: Multi-mode Resource-Constrained Project Scheduling Problem (MRCPSP), Lower Bounds, MMLIB*

[https://doi.org/10.1007/978-3-319-55702-1\\_73](https://doi.org/10.1007/978-3-319-55702-1_73)

Patrick Gerhards and Christian Stürck (2018):

**A Hybrid Metaheuristic for the Multi-mode Resource Investment Problem with Tardiness Penalty**

In: A. Fink, A. Fügenschuh, M. J. Geiger (eds.): Operations Research Proceedings 2016, Operations Research Proceedings (GOR (Gesellschaft für Operations Research e.V.)), pp. 515-520, Springer, Cham

*Keywords: Multi-mode Resource Investment Problem with Tardiness penalty (MRIPT), Matheuristic*

[https://doi.org/10.1007/978-3-319-55702-1\\_68](https://doi.org/10.1007/978-3-319-55702-1_68)

Felix Hübner, Uli Schellenbaum, Christian Stürck, Patrick Gerhards and Frank Schultmann (2017):

**Evaluation von Schedulingproblemen für die Projektplanung von Großprojekten am Beispiel des kerntechnischen Rückbaus**

In: Working Paper Series in Production and Energy, No 22, Karlsruher Institut für Technologie, Karlsruhe, Germany

*Keywords: Scheduling, kerntechnischer Rückbau, Multi-mode Resource Investment Problem with Tardiness penalty (MRIPT)*

<https://publikationen.bibliothek.kit.edu/1000069932>

Patrick Gerhards and Christian Stürck (2016):

**A Mathematical Model for the Coach Trip with Shuttle Service Problem**

In: A. Fink (eds.): HSU Institute of Computer Science Research Paper Series, No. 16-02, Helmut Schmidt University, Hamburg, Germany

*Keywords: Coach Trip with Shuttle Service Problem, Transfers, Routing, CTSSP, VeRoLog Solver Challenge 2015, Computational Complexity, CPLEX*

<http://edoc.sub.uni-hamburg.de/hsu/volltexte/2016/3150/>

Christian Stürck, Patrick Gerhards and Andreas Fink (2016):

**A MIP-based Adaptive Large Neighborhood Search for the Multi-mode Resource-Constrained Project Scheduling Problem**

In: R. Ruiz, R. Alvarez-Valdes (eds.): Proceedings of the 15th International Conference on Project Management and Scheduling, pp. 243–246, ADEIT Fundaci Universitat Empresa, Valencia, Spain

*Keywords: Multi-mode Resource-Constrained Project Scheduling Problem (MRCPS), Matheuristic, Adaptive large neighborhood search, MMLIB*

<https://congresos.adeituv.es/pms2016/>