

Andreas Beham
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Awards

Flexible Assembly Manufacturing with Human-Robot Collaboration and Digital Twin Models
Beham, A.

Prizes

2nd place at Combinatorial Black Box Optimization Competition
Beham, Andreas (Recipient), Jul 2016

Certificate of Appreciation
Beham, Andreas (Recipient), 25 Nov 2020

FH OÖ Jungforscherpreis 2016
Beham, Andreas (Recipient), Dec 2016

FH OÖ Jungforscherpreis 2020
Beham, Andreas (Recipient), 17 Dec 2020

Projects

DigiMont - Digitale Montage - ein erster Schritt für „Losgröße 1“ - digital assembly - first step in lot size 1
Affenzeller, M. & Beham, A.
01.12.2014 → 30.11.2017

Fakultätsübergreifendes Institut für intelligente Produktion - Hgbg
Affenzeller, M., Beham, A., Burlacu, B., Fleck, P., Traugott, G. & Holzinger, F. C.
01.07.2014 → 30.06.2019

FELICE (Hagenberg) - Flexible Assembly Manufacturing with Human-Robot Collaboration and Digital Twin Models
Beham, A., Froschauer, R. F., Wagner, S., Affenzeller, M., Brunner, M., Strähle, M. & Holzinger, F. C.
01.01.2021 → 30.06.2024

Josef Ressel-Zentrum für Heuristische Optimierung - Josef Ressel-Center for Heuristic Optimization
Affenzeller, M., Beham, A., Kronberger, G., Kommenda, M., Dorfer, V., Pitzer, E., Fleck, P. & Hutterer, S.
01.10.2008 → 30.09.2013

JRZ adaptOp - Josef Ressel Center for Adaptive Optimization in Dynamic Environments
Wagner, S., Beham, A., Leitner, S. J., Karder, J. A., Werth, B. & Beneder, M.
01.10.2019 → 30.09.2024

K-Projekt HOPL
Affenzeller, M., Wagner, S., Lengauer, E., Beham, A., Leitner, S. J., Karder, J. A., Petschnik, E., Kommenda, M., Kellermayr-Scheucher, M., Burlacu, B., Krauss, O. & Hübl, A.
COMET Competence Centers for Excellent Technologies
01.05.2014 → 30.04.2018

LOISI: Logistics Optimization in Steel Industries

Beham, A., Leitner, S. J., Wagner, S. & Affenzeller, M.
Smart Mobility OÖ und Stmk
01.10.2016 → 30.09.2019

Optimal Workforce

Beham, A., Karder, J. A., Brunner, M., Altendorfer, K., Zenisek, J., Wagner, S., Affenzeller, M. & Peirleitner, A. J.
FFG / Land OÖ Digitalisierung
01.11.2017 → 01.05.2021

SimGenOpt2 - Integrated Methods for Robust Production Planning and Control

Beham, A., Karder, J. A., Brunner, M., Altendorfer, K., Werth, B., Seiringer, W., Wagner, S., Affenzeller, M., Jodlbauer, H., Peirleitner, A. J. & Muhr, D.
FFG Research Promotion Program Production of the Future
01.03.2017 → 01.03.2021

Research Outputs

Books and Theses

Beham, A. (2019). *Fitness Landscape Analysis and Algorithm Selection for Assignment Problems*.

Affenzeller, M., Winkler, S., Wagner, S., & Beham, A. (2009). *Genetic algorithms and genetic programming: Modern concepts and practical applications*. CRC Press. <https://doi.org/10.1201/9781420011326>

Journal Publications

2021

Hauder, V. A., Beham, A., Wagner, S., Doerner, K. F., & Affenzeller, M. (2021). Dynamic online optimization in the context of smart manufacturing: An overview. *Procedia Computer Science*, 180, 988-995.
<https://doi.org/10.1016/j.procs.2021.01.356>

Karder, J. A., Beham, A., Hauder, V., Altendorfer, K., & Affenzeller, M. (2021). Simulation-based optimisation for worker cross-training. *International Journal of Simulation and Process Modelling*, 16(3), 185-194.
<https://doi.org/10.1504/IJSPM.2021.117309>

2020

Hauder, V., Beham, A., Leitner, S. J., Parragh, S., & Affenzeller, M. (2020). Resource-constrained multi-project scheduling with activity and time flexibility. *Computers and Industrial Engineering*, 150, [106857].
<https://doi.org/10.1016/j.cie.2020.106857>

Beham, A., Ragg, S. J., Hauder, V., Karder, J., Wagner, S., & Affenzeller, M. (2020). Performance, Quality, and Control in Steel Logistics 4.0. *Procedia Manufacturing*, 42, 429-433. <https://doi.org/10.1016/j.promfg.2020.02.053>

Altendorfer, K., Schober, A., Karder, J., & Beham, A. (2020). Service level improvement due to worker cross training with stochastic worker absence. *International Journal of Production Research*, 59(14), 4416-4433.
<https://doi.org/10.1080/00207543.2020.1764126>

2019

Schober, A., Altendorfer, K., Karder, J., & Beham, A. (2019). Influence of workforce qualification on service level in a flow shop with two lines. *IFAC Papers Online*, 52(13), 553-558. <https://doi.org/10.1016/j.ifacol.2019.11.216>

Scagnetti, J., Beham, A., Wagner, S., & Affenzeller, M. (2019). Approximate Q-Learning for Stacking Problems with Continuous Production and Retrieval. *Applied Artificial Intelligence*, 33(1), 68-86. <https://doi.org/10.1080/08839514.2018.1525852>

2018

Raggl, S. J., Beham, A., Tricoire, F., & Affenzeller, M. (2018). Solving a Real World Steel Stacking Problem. *International Journal of Service and Computing Oriented Manufacturing*, 3(2). <https://doi.org/10.1504/IJSCOM.2018.091621>

Tricoire, F., Scagnetti, J., & Beham, A. (2018). New insights on the block relocation problem. *COMPUTERS & OPERATIONS RESEARCH*, 89, 127-139. <https://doi.org/10.1016/j.cor.2017.08.010>

2017

Karder, J., Scheibenpflug, A., Beham, A., Wagner, S., & Affenzeller, M. (2017). Extending Sim# for simulation-based optimisation of Semi-Automated machinery. *International Journal of Simulation and Process Modelling*, 12(6), 485-497. <https://doi.org/10.1504/IJSPM.2017.089634>

2015

Kofler, M., Beham, A., Wagner, S., & Affenzeller, M. (2015). Robust storage assignment in warehouses with correlated demand. *Studies in Computational Intelligence*, 595, 415-428. https://doi.org/10.1007/978-3-319-15720-7_29

2014

Hutterer, S., Beham, A., Affenzeller, M., Auinger, F., & Wagner, S. (2014). Software-Enabled Investigation in Metaheuristic Power Grid Optimization. *IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS*, 10(1), 364-372. [6574283]. <https://doi.org/10.1109/TII.2013.2276525>

2013

Vonolfen, S., Affenzeller, M., Beham, A., Lengauer, E., & Wagner, S. (2013). Simulation-based evolution of resupply and routing policies in rich vendor-managed inventory scenarios. *Central European Journal of Operations Research*, 21(2), 379-400. <https://doi.org/10.1007/s10100-011-0232-5>

2012

Vonolfen, S., Beham, A., Affenzeller, M., Wagner, S., & Mayr, A. (2012). Combination and Comparison of Different Genetic Encodings for the Vehicle Routing Problem. *Lecture Notes in Computer Science*, 6927(PART 1), 327-334. https://doi.org/10.1007/978-3-642-27549-4_42

Pitzer, E., Affenzeller, M., Beham, A., & Wagner, S. (2012). Comprehensive and Automatic Fitness Landscape Analysis Using HeuristicLab. *Lecture Notes in Computer Science*, 6927(PART 1), 424-431. https://doi.org/10.1007/978-3-642-27549-4_54

2009

Wagner, S., Kronberger, G., Beham, A., Winkler, S., & Affenzeller, M. (2009). Model Driven Rapid Prototyping of Heuristic Optimization Algorithms. *Lecture Notes in Computer Science*, 5717(1), 729-736. https://doi.org/10.1007/978-3-642-04772-5_94

Affenzeller, M., Winkler, S., Beham, A., & Wagner, S. (2009). On the Influence of Selection Schemes on the Genetic Diversity in Genetic Algorithms. *Lecture Notes in Computer Science*, 5717(1), 777-784. https://doi.org/10.1007/978-3-642-04772-5_100

2008

Nebro, A. J., Luna, F., Alba, E., Dorronsoro, B., Durillo, J. J., & Beham, A. (2008). AbYSS: Adapting scatter search to multiobjective optimization. *IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION*, 12(4), 439-457. <https://doi.org/10.1109/TEVC.2007.913109>

2007

Beham, A. (2007). Parallel Tabu Search and the Multiobjective Capacitated Vehicle Routing Problem with Soft Time Windows. *Lecture Notes in Computer Science*, 4739(4739), 829-836. https://doi.org/10.1007/978-3-540-75867-9_104

Conference Publications

Werth, B., Karder, J., Beham, A., & Wagner, S. (2021). Dynamic landscape analysis for open-ended stacking. In *GECCO 2021 Companion - Proceedings of the 2021 Genetic and Evolutionary Computation Conference Companion* (pp. 1700-1707). (GECCO 2021 Companion - Proceedings of the 2021 Genetic and Evolutionary Computation Conference Companion). Association for Computing Machinery, Inc. <https://doi.org/10.1145/3449726.3463153>

Beham, A., Hauder, V. A., Karder, J., & Altendorfer, K. (2020). Multi-objective optimization for worker cross-training: The tri-objective case. In *GECCO 2020 Companion - Proceedings of the 2020 Genetic and Evolutionary Computation Conference Companion* (pp. 257-258). (GECCO 2020 Companion - Proceedings of the 2020 Genetic and Evolutionary Computation Conference Companion). Association for Computing Machinery, Inc. <https://doi.org/10.1145/3377929.3389960>

Raggl, S., Beham, A., Wagner, S., & Affenzeller, M. (2020). Solution approaches for the dynamic stacking problem. In *GECCO 2020 Companion - Proceedings of the 2020 Genetic and Evolutionary Computation Conference Companion* (pp. 1652-1660). (GECCO 2020 Companion - Proceedings of the 2020 Genetic and Evolutionary Computation Conference Companion). Association for Computing Machinery, Inc. <https://doi.org/10.1145/3377929.3398111>

Leitner, S. J., Beham, A., Wagner, S., & Affenzeller, M. (2020). Effects of Arrival Uncertainty on Solver Performance in Dynamic Stacking Problems. In M. Affenzeller, A. G. Bruzzone, F. Longo, & A. Petrillo (Eds.), *32nd European Modeling and Simulation Symposium, EMSS 2020* (pp. 193-200). (32nd European Modeling and Simulation Symposium, EMSS 2020). <https://doi.org/10.46354/i3m.2020.emss.027>

Werth, B., Karder, J., Beham, A., & Wagner, S. (2020). Hyper-parameter handling for Gaussian processes in efficient global optimization. In A. G. Bruzzone, F. De Felice, M. Massei, & A. Solis (Eds.), *19th International Conference on Modeling and Applied Simulation, MAS 2020* (pp. 60-67). (19th International Conference on Modeling and Applied Simulation, MAS 2020). DIME UNIVERSITY OF GENOA. <https://doi.org/10.46354/i3m.2020.mas.008>

Raggl, S. J., Beham, A., & Affenzeller, M. (2020). Investigating the Dynamic Block Relocation Problem. In R. Moreno-Díaz, A. Quesada-Arencibia, & F. Pichler (Eds.), *Computer Aided Systems Theory – EUROCAST 2019 - 17th International Conference, Revised Selected Papers* (pp. 438-445). (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); Vol. 12013 LNCS). Springer. https://doi.org/10.1007/978-3-030-45093-9_53

Hauder, V., Beham, A., Raggl, S. J., & Affenzeller, M. (2020). Solving a flexible resource-constrained project scheduling problem under consideration of activity priorities. In R. Moreno-Díaz, A. Quesada-Arencibia, & F. Pichler (Eds.), *Computer Aided Systems Theory – EUROCAST 2019 - 17th International Conference, Revised Selected Papers* (pp. 327-334). (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); Vol. 12013 LNCS). Springer. https://doi.org/10.1007/978-3-030-45093-9_40

Karder, J., Beham, A., Peirleitner, A. J., & Altendorfer, K. (2020). Surrogate-Assisted Multi-Objective Parameter Optimization for Production Planning Systems. In R. Moreno-Díaz, A. Quesada-Arencibia, & F. Pichler (Eds.), *Computer Aided Systems Theory – EUROCAST 2019 - 17th International Conference, Revised Selected Papers* (pp. 239-246). (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); Vol. 12013 LNCS). Springer. https://doi.org/10.1007/978-3-030-45093-9_29

Beham, A., Raggl, S. J., Wagner, S., & Affenzeller, M. (2019). Uncertainty in real-world steel stacking problems. In *GECCO 2019 Companion - Proceedings of the 2019 Genetic and Evolutionary Computation Conference Companion* (pp. 1438-1440). (GECCO 2019 Companion - Proceedings of the 2019 Genetic and Evolutionary Computation Conference Companion). Association for Computing Machinery, Inc. <https://doi.org/10.1145/3319619.3326803>

Karder, J., Altendorfer, K., Beham, A., & Peirleitner, A. J. (2019). Regression methods for surrogate modeling of a real production system approximating the influence on inventory and tardiness. In *WSC 2018 - 2018 Winter Simulation Conference: Simulation for a Noble Cause* (pp. 2037-2048). [8632538] (Proceedings - Winter Simulation Conference; Vol. 2018-December). Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/WSC.2018.8632538>

Karder, J., Hauder, V., Beham, A., Altendorfer, K., & Affenzeller, M. (2019). A new solution encoding for simulation-based multi-objective workforce qualification optimization. In M. Affenzeller, A. G. Bruzzone, F. Longo, & G. Pereira (Eds.), *31st European Modeling and Simulation Symposium, EMSS 2019* (pp. 254-261). (31st European Modeling and Simulation Symposium, EMSS 2019). DIME UNIVERSITY OF GENOA.

Steiner, E., Weichhart, G., & Beham, A. (2019). Information systems for steel production: The importance of resilience. In R. Meersman, W. Guédria, H. Panetto, C. Debruyne, I. Ciuciu, & P. Bollen (Eds.), *On the Move to Meaningful Internet Systems: OTM 2018 Workshops - Confederated International Workshops: EI2N, FBM, ICSP, and Meta4eS 2018, Revised Selected Papers* (pp. 45-54). (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); Vol. 11231 LNCS). Springer. https://doi.org/10.1007/978-3-030-11683-5_5

Bożejko, W., Gnatowski, A., Niżyński, T., Affenzeller, M., & Beham, A. (2019). Local Optima Networks in Solving Algorithm Selection Problem for TSP. In J. Kacprzyk, W. Zamojski, J. Mazurkiewicz, J. Sugier, & T. Walkowiak (Eds.), *Contemporary Complex Systems and Their Dependability - Proceedings of the 13th International Conference on Dependability and Complex Systems DepCoS-RELCOMEX, 2018* (pp. 83-93). (Advances in Intelligent Systems and Computing; Vol. 761). Springer. https://doi.org/10.1007/978-3-319-91446-6_9

Hauder, V., Beham, A., Raggl, S. J., & Affenzeller, M. (2019). Multi-objective optimization for a scheduling problem in the steel industry. In M. Affenzeller, A. G. Bruzzone, F. Longo, & G. Pereira (Eds.), *31st European Modeling and Simulation Symposium, EMSS 2019* (pp. 241-245). (31st European Modeling and Simulation Symposium, EMSS 2019). DIME UNIVERSITY OF GENOA.

Karder, J., Beham, A., Werth, B., Wagner, S., & Affenzeller, M. (2018). Asynchronous surrogate-assisted optimization networks. In *GECCO 2018 Companion - Proceedings of the 2018 Genetic and Evolutionary Computation Conference Companion* (pp. 1266-1267). (GECCO 2018 Companion - Proceedings of the 2018 Genetic and Evolutionary Computation Conference Companion). Association for Computing Machinery, Inc. <https://doi.org/10.1145/3205651.3208246>

Raggl, S. J., Beham, A., Hauder, V., Wagner, S., & Affenzeller, M. (2018). Discrete real-world problems in a black-box optimization benchmark. In *GECCO 2018 Companion - Proceedings of the 2018 Genetic and Evolutionary Computation Conference Companion* (pp. 1745-1752). (GECCO 2018 Companion - Proceedings of the 2018 Genetic and Evolutionary Computation Conference Companion). Association for Computing Machinery, Inc. <https://doi.org/10.1145/3205651.3208280>

Beham, A., Wagner, S., & Affenzeller, M. (2018). Algorithm selection on generalized quadratic assignment problem landscapes. In *GECCO 2018 - Proceedings of the 2018 Genetic and Evolutionary Computation Conference* (pp. 253-260). (GECCO 2018 - Proceedings of the 2018 Genetic and Evolutionary Computation Conference). Association for Computing Machinery, Inc. <https://doi.org/10.1145/3205455.3205585>

Hauder, V., Karder, J., Beham, A., Wagner, S., & Affenzeller, M. (2018). A general solution approach for the location routing problem. In R. Moreno-Diaz, A. Quesada-Arencibia, & F. Pichler (Eds.), *Computer Aided Systems Theory – EUROCAST 2017 - 16th International Conference, Revised Selected Papers* (pp. 257-265). (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); Vol. 10671 LNCS). Springer. https://doi.org/10.1007/978-3-319-74718-7_31

Raggl, S. J., Beham, A., Wagner, S., & Affenzeller, M. (2018). Analysing a hybrid model-based evolutionary algorithm for a hard grouping problem. In R. Moreno-Diaz, A. Quesada-Arencibia, & F. Pichler (Eds.), *Computer Aided Systems Theory – EUROCAST 2017 - 16th International Conference, Revised Selected Papers* (pp. 347-354). (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); Vol. 10671 LNCS). Springer. https://doi.org/10.1007/978-3-319-74718-7_42

Wagner, S., Beham, A., & Affenzeller, M. (2018). Analysis and visualization of the impact of different parameter configurations on the behavior of evolutionary algorithms. In R. Moreno-Diaz, A. Quesada-Arencibia, & F. Pichler (Eds.), *Computer Aided Systems Theory – EUROCAST 2017 - 16th International Conference, Revised Selected Papers* (pp. 439-446). (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); Vol. 10671 LNCS). Springer. https://doi.org/10.1007/978-3-319-74718-7_53

Karder, J., Beham, A., Wagner, S., & Affenzeller, M. (2018). Distributed simulation execution on a high-performance cluster using heuristiclab hive. In Y. Merkurjev, M. A. Piera, F. Longo, A. G. Bruzzone, M. Affenzeller, & E. Jimenez (Eds.), *30th European Modeling and Simulation Symposium, EMSS 2018* (pp. 107-114). (30th European Modeling and Simulation Symposium, EMSS 2018). DIME UNIVERSITY OF GENOA.

Beham, A., Pitzer, E., Wagner, S., & Affenzeller, M. (2018). Integrating Exploratory Landscape Analysis into Metaheuristic Algorithms. In R. Moreno-Diaz, A. Quesada-Arencibia, & F. Pichler (Eds.), *Computer Aided Systems Theory – EUROCAST 2017 - 16th International Conference, Revised Selected Papers* (pp. 473-480). (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); Vol. 10671 LNCS). https://doi.org/10.1007/978-3-319-74718-7_57

Kommenda, M., Karder, J., Beham, A., Burlacu, B., Kronberger, G., Wagner, S., & Affenzeller, M. (2018). Optimization networks for integrated machine learning. In R. Moreno-Diaz, A. Quesada-Arencibia, & F. Pichler (Eds.), *Computer Aided Systems Theory – EUROCAST 2017 - 16th International Conference, Revised Selected Papers* (pp. 392-399). (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); Vol. 10671 LNCS). Springer. https://doi.org/10.1007/978-3-319-74718-7_47

Hauder, V., Beham, A., Raggl, S. J., & Affenzeller, M. (2018). Resource constrained project scheduling: A real-world extension for steel industry. In Y. Merkurjev, M. A. Piera, F. Longo, A. G. Bruzzone, M. Affenzeller, & E. Jimenez (Eds.), *30th European Modeling and Simulation Symposium, EMSS 2018* (pp. 172-177). (30th European Modeling and Simulation Symposium, EMSS 2018). DIME UNIVERSITY OF GENOA.

Karder, J., Beham, A., Wagner, S., & Affenzeller, M. (2018). Solving the traveling thief problem using orchestration in optimization networks. In R. Moreno-Diaz, A. Quesada-Arencibia, & F. Pichler (Eds.), *Computer Aided Systems Theory – EUROCAST 2017 - 16th International Conference, Revised Selected Papers* (pp. 307-315). (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); Vol. 10671 LNCS). Springer. https://doi.org/10.1007/978-3-319-74718-7_37

Beham, A., Affenzeller, M., & Wagner, S. (2017). Instance-based algorithm selection on quadratic assignment problem landscapes. In *GECCO 2017 - Proceedings of the Genetic and Evolutionary Computation Conference Companion* (pp. 1471-1478). (GECCO 2017 - Proceedings of the Genetic and Evolutionary Computation Conference Companion). ACM Sigevo. <https://doi.org/10.1145/3067695.3082513>

Hauder, V., Beham, A., Wagner, S., & Affenzeller, M. (2017). Optimization networks for real-world production and logistics problems. In *GECCO 2017 - Proceedings of the Genetic and Evolutionary Computation Conference Companion* (pp. 1411-1414). (GECCO 2017 - Proceedings of the Genetic and Evolutionary Computation Conference Companion). Association for Computing Machinery, Inc. <https://doi.org/10.1145/3067695.3092959>

Karder, J., Wagner, S., Beham, A., Kommenda, M., & Affenzeller, M. (2017). Towards the design and implementation of optimization networks in heuristiclab. In *GECCO 2017 - Proceedings of the Genetic and Evolutionary Computation Conference Companion* (pp. 1209-1214). (GECCO 2017 - Proceedings of the Genetic and Evolutionary Computation Conference Companion). Association for Computing Machinery, Inc. <https://doi.org/10.1145/3067695.3082475>

Bozejko, W., Gnatowski, A., Klempous, R., Affenzeller, M., & Beham, A. (2017). Cyclic scheduling of a robotic cell. In *7th IEEE International Conference on Cognitive Infocommunications, CogInfoCom 2016 - Proceedings* (pp. 379-384). [7804579] (7th IEEE International Conference on Cognitive Infocommunications, CogInfoCom 2016 - Proceedings). Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/CogInfoCom.2016.7804579>

Weichhart, G., Roljic, B., Beham, A., Frühwirth, M., Steringer, R., Neissl, U., Grote, V., Karder, J., & Zörrer, H. (2017). Enterprise interoperability as framework for project knowledge management. In P. Bollen, H. Panetto, G. Weichhart, M-E. Vidal, I. Ciuciu, C. Debruyne, & A. Fensel (Eds.), *On the Move to Meaningful Internet Systems: OTM 2016 Workshops - Confederated International Workshops: EI2N, FBM, ICSP, Meta4eS, and OTMA 2016, Revised Selected Papers* (pp. 190-199). (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); Vol. 10034 LNCS). Springer. https://doi.org/10.1007/978-3-319-55961-2_19

Hauder, V., Beham, A., & Wagner, S. (2017). Integrated performance measurement for optimization networks in smart enterprises. In P. Bollen, H. Panetto, G. Weichhart, M-E. Vidal, I. Ciuciu, C. Debruyne, & A. Fensel (Eds.), *On the Move to Meaningful Internet Systems: OTM 2016 Workshops - Confederated International Workshops: EI2N, FBM, ICSP, Meta4eS, and OTMA 2016, Revised Selected Papers* (pp. 26-35). (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); Vol. 10034 LNCS). Springer. https://doi.org/10.1007/978-3-319-55961-2_3

Karder, J., Hauder, V., Beham, A., Wagner, S., & Affenzeller, M. (2017). Optimierungsnetzwerke: Ein innovativer Lösungsansatz für Praxisprobleme in der Logistik. In *Jahrbuch der Logistikforschung 2017* (pp. 47-58). Trauner Verlag Linz.

Cihal, R., Beham, A., Raggl, S. J., Hölzl, E., Probst, K., & Moser, H. (2017). Slab Stacking Automation in the Hot Slab Yard as Key Factor for Post-Processing of Cast Slabs. In *Proceedings of the 9th ECCO European Continuous Casting Conference (ECCO 2017)* (pp. 1122-1131)

Raggl, S. J., Roljic, B., Schneeberger, K., Beham, A., Wagner, S., Cihal, R., Lettner, M., & Wasner, M. (2017). Stahllogistik 4.0 - Die Stahlbranche in Bewegung. In *Jahrbuch der Logistikforschung 2017* (pp. 211-223). Trauner Verlag Linz.

Beham, A., Wagner, S., & Affenzeller, M. (2016). Optimization Knowledge Center: A Decision Support System for Heuristic Optimization. In T. Friedrich (Ed.), *GECCO 2016 Companion - Proceedings of the 2016 Genetic and Evolutionary Computation Conference* (pp. 1331-1338). (GECCO 2016 Companion - Proceedings of the 2016 Genetic and Evolutionary Computation Conference). ACM Sigevo. <https://doi.org/10.1145/2908961.2931724>

Raggl, S. J., Beham, A., Tricoire, F., & Affenzeller, M. (2016). A Tree-Search Based Heuristic for a Complex Stacking Problem with Continuous Production and Retrieval. In *Proceedings of the 28th European Modeling and Simulation Symposium EMSS 2016*

Raggl, S., Andreas, B., Tricoire, F., & Affenzeller, M. (2016). A tree-search based heuristic for a complex stacking problem with continuous production and retrieval. In A. G. Bruzzone, E. Jimenez, L. S. Louca, L. Zhang, & F. Longo (Eds.), *28th European Modeling and Simulation Symposium, EMSS 2016* (pp. 56-61). (28th European Modeling and Simulation Symposium, EMSS 2016). DIME UNIVERSITY OF GENOA.

Scheibenpflug, A., Beham, A., Kommenda, M., Karder, J., Wagner, S., & Affenzeller, M. (2015). Simplifying problem definitions in the HeuristicLab optimization environment. In S. Silva (Ed.), *GECCO 2015 - Companion Publication of the 2015 Genetic and Evolutionary Computation Conference* (pp. 1101-1108). (GECCO 2015 - Companion Publication of the 2015 Genetic and Evolutionary Computation Conference). Association for Computing Machinery, Inc. <https://doi.org/10.1145/2739482.2768463>

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