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Research interests

Quantitative analysis and optimisation of closed-loop supply chains, sustainable operations, adaptive and anticipative behavior of firms in supply chains

Employment

Professor

Marketing, Operations and Systems
Northumbria University
1 Apr 2015 → present

Professor

University of Graz
Austria
2 Jan 2009 → present

Research output

Exploring a regional repair network with a public funding scheme for customer repairs: The 'GRAZ repariert'-case

Lechner, G., Wagner, M. J., Diaz Tena, A., Fleck, C. & Reimann, M., 15 Mar 2021, In: Journal of Cleaner Production. 288, 13 p., 125588.

Model-based production cost estimation to support bid processes: an automotive case study

Borenich, A., Greistorfer, P. & Reimann, M., 1 Sep 2020, In: Central European Journal of Operations Research. 28, 3, p. 841–868 28 p.

Two-sided competition with vertical differentiation in both acquisition and sales in remanufacturing

Kleber, R., Reimann, M., Souza, G. C. & Zhang, W., 16 Jul 2020, In: European Journal of Operational Research. 284, 2, p. 572-587

Proprietary Parts as a Secondary Market Strategy

Kleber, R., Neto, J. Q. F. & Reimann, M., 16 Jun 2020, In: European Journal of Operational Research. 283, 3, p. 929-941 13 p.

Should a manufacturer sell refurbished returns on the secondary market to incentivize retailers to reduce consumer returns?

Borenich, A., Dickbauer, Y., Reimann, M. & Souza, G. C., 16 Apr 2020, In: European Journal of Operational Research. 282, 2, p. 569-579 11 p.

Managing a Closed-loop Supply Chain with Process Innovation for Remanufacturing

Reimann, M., Xiong, Y. & Zhou, Y., 16 Jul 2019, In: European Journal of Operational Research. 276, 2, p. 510-518 9 p.

When remanufacturing meets product quality improvement: the impact of production cost

Li, G., Reimann, M. & Zhang, W., 16 Dec 2018, In: European Journal of Operational Research. 271, 3, p. 913-925 13 p.

The Line-haul Feeder Vehicle Routing Problem: Mathematical model formulation and heuristic approaches

Brandstätter, C. & Reimann, M., 1 Oct 2018, In: European Journal of Operational Research. 270, 1, p. 157-170

On the robustness of the consumer homogeneity assumption with respect to the discount factor for remanufactured products

Kleber, R., Reimann, M., Souza, G. C. & Zhang, W., 16 Sep 2018, In: European Journal of Operational Research. 269, 3, p. 1027-1040

Vehicle routing problems with time windows and multiple service workers: a systematic comparison between ACO and GRASP

Senarclens de Grancy, G. & Reimann, M., 1 Mar 2016, In: Central European Journal of Operations Research. 24, 1, p. 29-48 20 p.

Accurate Response with Refurbished Consumer Returns

Reimann, M., 1 Feb 2016, In: Decision Sciences. 47, 1, p. 31-59 29 p.

Reprocessing and repairing white and brown goods - the R.U.S.Z case: an independent and non-profit business

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Evaluating two new heuristics for constructing customer clusters in a VRPTW with multiple service workers

Senarclens de Grancy, G. & Reimann, M., 1 Jun 2015, In: Central European Journal of Operations Research. 23, 2, p. 479-500 22 p.

Towards a multi-objective performance assessment and optimization model of a two-echelon supply chain using SCOR metrics

Zhang, W. & Reimann, M., 1 Dec 2014, In: Central European Journal of Operations Research. 22, 4, p. 591-622 32 p.

Joint optimization of production planning and vehicle routing problems: A review of existing strategies

Reimann, M., Neto, R. T. & Bogendorfer, E., May 2014, In: Pesquisa Operacional. 34, 2, p. 189-214 26 p.

A simple augmented ϵ -constraint method for multi-objective mathematical integer programming problems

Zhang, W. & Reimann, M., 1 Apr 2014, In: European Journal of Operational Research. 234, 1, p. 15-24 10 p.

Impact of product acquisition on manufacturing and remanufacturing strategies

Lechner, G. & Reimann, M., 2014, In: Production and Manufacturing Research. 2, 1, p. 831-859 29 p.

Joint optimization of new production, warranty servicing strategy and secondary market supply under consumer returns

Reimann, M. & Zhang, W., Dec 2013, In: Pesquisa Operacional. 33, 3, p. 325-342 18 p.

Accurate response by postponement

Reimann, M., 1 Aug 2012, In: European Journal of Operational Research. 220, 3, p. 619-628 10 p.

Vehicle routing with multiple deliverymen: Modeling and heuristic approaches for the VRPTW

Pureza, V., Morabito, R. & Reimann, M., 1 May 2012, In: European Journal of Operational Research. 218, 3, p. 636-647 12 p.

Production and remanufacturing strategies in a closed-loop supply chain: A two-period newsvendor problem

Reimann, M. & Lechner, G., 2012, *Handbook of Newsvendor Problems: Models, Extensions and Applications*. Choi, T-M. (ed.). Springer, p. 219-247 29 p. (International Series in Operations Research and Management Science; vol. 176).

Speculative production and anticipative reservation of reactive capacity by a multi-product newsvendor

Reimann, M., 16 May 2011, In: European Journal of Operational Research. 211, 1, p. 35-46 12 p.

Diversification: A road to inefficiency in product innovations?

Dawid, H. & Reimann, M., May 2011, In: Journal of Evolutionary Economics. 21, 2, p. 191-229 39 p.

Studying the interdependence of contractual and operational flexibilities in the market of specialty chemicals

Reimann, M. & Schiltknecht, P., 1 Nov 2009, In: European Journal of Operational Research. 198, 3, p. 760-772 13 p.

The role of risk preferences and flexibility for risk management: Lessons from a custom manufacturing environment

Reimann, M. & Schiltknecht, P., Jul 2009, In: Review of Managerial Science. 3, 2, p. 117-140 24 p.

Exact and heuristic algorithms for the vehicle routing problem with multiple interdependent time windows

Doerner, K. F., Gronalt, M., Hartl, R. F., Kiechle, G. & Reimann, M., Sep 2008, In: Computers and Operations Research. 35, 9, p. 3034-3048 15 p.

Scheduling periodic customer visits for a traveling salesperson

Polacek, M., Doerner, K. F., Hartl, R. F., Kiechle, G. & Reimann, M., 16 Jun 2007, In: European Journal of Operational Research. 179, 3, p. 823-837 15 p.

Editorial: Logistics of health care management

Doerner, K. F. & Reimann, M., Mar 2007, In: Computers and Operations Research. 34, 3, p. 621-623 3 p.

Analysing risk orientation in a stochastic VRP

Reimann, M., 2007, In: European Journal of Industrial Engineering. 1, 2, p. 111-130 20 p.

Metaheuristics: Progress in complex systems optimization

Doerner, K. F., Gendreau, M., Greistorfer, P., Gutjahr, W. J., Hartl, R. F. & Reimann, M., 2007, Springer. 399 p. (Operations Research/Computer Science Interfaces Series; vol. 39)

Comparing backhauling strategies in vehicle routing using Ant Colony Optimization

Reimann, M. & Ulrich, H., Jun 2006, In: Central European Journal of Operations Research. 14, 2, p. 105-123 19 p.

Savings based ant colony optimization for the capacitated minimum spanning tree problem

Reimann, M. & Laumanns, M., Jun 2006, In: Computers and Operations Research. 33, 6, p. 1794-1822 29 p.

Evaluating market attractiveness: Individual incentives versus industry profitability

Dawid, H. & Reimann, M., Jun 2005, In: Computational Economics. 24, 4, p. 321-355 35 p.

A Variable Neighborhood Search for the Multi Depot Vehicle Routing Problem with Time Windows

Polacek, M., Hartl, R. F., Doerner, K. & Reimann, M., Dec 2004, In: Journal of Heuristics. 10, 6, p. 613-627 15 p.

D-ants: Savings based ants divide and conquer the vehicle routing problem

Reimann, M., Doerner, K. & Hartl, R. F., Apr 2004, In: Computers and Operations Research. 31, 4, p. 563-591 29 p.

New savings based algorithms for time constrained pickup and delivery of full truckloads

Gronalt, M., Hartl, R. F. & Reimann, M., 16 Dec 2003, In: European Journal of Operational Research. 151, 3, p. 520-535 16 p.

To innovate or not to innovate?

Dawid, H., Reimann, M. & Bullnheimer, B., Oct 2001, In: IEEE Transactions on Evolutionary Computation. 5, 5, p. 471-481 11 p.