List of Publications Prf. Dr. Christian Almeder

Monographies

- **Christian Almeder**: Hydrodynamic Modelling and Simulation of the Human Arterial Blood Flow. Vienna: ARGESIM/ASIM-Verlag, Fortschrittsberichte Simulation, Band 8 2000.

Articles in Edited Books

- **Christian Almeder**: Comparing Modeling Approaches for the Multi-Level Capacitated Lot-Sizing and Scheduling Problem. In: H. Dawid, K. Doerner, G. Feichtinger, P. Kort, A. Seidl (Hg.): Dynamic Perspectives on Managerial Decision Making, (Dynamic Modeling and Econometrics in Economics and Finance, 22) Cham: Springer 2016, S. 333-348.

- **Christian Almeder**, **Margaretha Gansterer**: Robuste operative Planung. In: Thorsten Claus, Frank Herrmann, Michael Manitz (Hg.): Produktionsplanung und -steuerung, s.l.: Springer Berlin Heidelberg 2015, S. 47-60.

- **Christian Almeder**, **Renate Traxler**: Das mehrstufige kapazitierte Losgrößenproblem. In: Thorsten Claus, Frank Herrmann, Michael Manitz (Hg.): Produktionsplanung und -steuerung, s.l.: Springer Berlin Heidelberg 2015, S. 89-107.

- **Christian Almeder**, **Pamela Nolz, Richard F. Hartl**: Fallbeispiel einer Optimierung des Produktionsprozesses einer Wochenzeitung. In: Gerald Reiner, Johannes Fichtinger, Martin Poiger, Reinhold Schodl (Hg.): Trendberichte im Operations Management – Eine Festschrift für Werner Jammernegg, s.l.: Peter Lang 2013, S. 103-117.

- **Matthias Gruber**, **Michael Rinner, Thomas Löscher, Christian Almeder, Stefan Katzensteiner, Richard F. Hartl**: Vorausschauende Produktionsregelung: Simulationsbasierte heuristische Optimierung. In: Lothar März, Wilfried Krug, Oliver Rose, Gerald Weigert (Hg.): Simulation und Optimierung in Produktion und Logistik, Berlin Heidelberg: Springer 2011, S. 65-77.

- **Christian Almeder**, **Lars Mönch**: Variable neighborhood search for parallel batch machine scheduling. In: (Hg.): Preprints of the VIII Metaheuristic International Conference 2009, Hamburg 2009, S. 1-1.

- **Christian Almeder**, **Wolfgang Summerauer, Richard F. Hartl**: MIP-based ant colony optimization for multi-level lotsizing. In: (Hg.): Preprints of the VIII Metaheuristic International Conference 2009, Hamburg 2009, S. 1-1.

- **Lars Mönch**, **Christian Almeder**: Ant colony optimization approaches for scheduling jobs with incompatible families on parallel batch machines. In: (Hg.): Proceedings of the MISTA 2009 conference, Dublin 2009, S. 105-114.

- **Andreas Klemmt**, **Gerald Weigert, Christian Almeder, Lars Mönch**: A comparison of MIP-based decomposition techniques and VNS approaches for batch scheduling problems. In: Manuel D. Rossetti, Ray Hill, Björn Johansson, Ann Dunkin, Ricki G. Ingalls (Hg.): Proceedings of the 2009 Winter Simulation Conference, s.l. 2009, S. 1686-1694.

- **Christian Almeder**, **Margaretha Preusser, Richard F. Hartl**: Simulation and optimization of supply chains: Alternative or complementary approaches?. In: Hans-Otto Günther, Herbert Meyr (Hg.): Supply Chain Planning – Quantitative Decision Support and Advanced Planning Solutions, -: Springer 2009, S. 29-53.

- **Martin Romauch**, **Walter Laure, Georg Seidel, Christian Almeder**: Decision making and forecasting with respect to risk: A simulation study for a setup problem. In: Scott J. Mason, Raymond R. Hill, Lars Mönch, Oliver Rose, Thomas Jefferson, John W. Fowler (Hg.): Proceedings of the 2008 Winter Simulation Conference, Miami, FL 2008, S. 2171-2175.

- **Christian Almeder**, **Margaretha Preusser**: A hybrid simulation optimization approach for supply chains. In: Borut Zupancic, Rihard Karba, Saso Blazic (Hg.): Proceedings of the 6th EUROSIM Congress on Modelling and Simulation, Ljubljana, Slovenia: ARGESIM/ASIM-Verlag 2007, S. 1-1.

- **Christian Almeder**, **Margaretha Preusser**: A toolbox for simulation-based optimization of supply chains. In: , S.G. Henderson, B. Biller, M.-H. Hsieh, J. Shortle, J. D. Tew, R.R. Barton (Hg.): Proceedings of the 2007 Winter Simulation Conference, Washington, D.C. 2007, S. 1932-1939.

- **Margaretha Preusser**, **Christian Almeder, Richard F. Hartl, Markus Klug**: Hybrid supply chain modelling – combining LP-models and discrete-event simulation. In: María Concepción

Maroto Álvarez, J. Alcaraz Soria, G.R. Ruiz, F. Crespo Abril, R. Vallada (Hg.): ORP3 — Operational Research Peripatetic Postgraduate Programme proceedings, Valencia 2005, S. 163-170.

- **Margaretha Preusser**, **Christian Almeder, Richard F. Hartl, Markus Klug**: LP modelling and simulation of supply chain networks. In: Hans-Otto Günther, Dirk C. Mattfeld, Leena Suhl (Hg.): Supply Chain Management und Logistik - Optimierung, Simulation, Decision Support, Heidelberg: Physica-Verlag 2005, S. 95-113.

- **Christian Almeder**, **Felix Breitenecker**: Blutflußmodell – Fluß und Druckdynamik im elastischen Rohrnetzwerk. In: Klaus Panreck, Frank Dörrscheidt (Hg.): Frontiers in Simulation: Simulationstechnik, 15. Symposium in Paderborn, Ghent, Belgium 2004, S. 443-446.

- **Christian Almeder**: Simulation and optimization of age-structured models. In: Yskandar Hamam, Gamal Attiya (Hg.): Proceedings of the 5th EUROSIM Congress on Modeling and Simulation, Paris: ARGESIM/ASIM-Verlag 2004, S. 1-1.

- **Christian Almeder**: Solution methods for age-structured optimal control models with feedback. In: Ivan Lirkov, Svetozar Margenov, Jerzy Wasniewski, Plamen Yalamov (Hg.): Large-Scale Scientific Computing – 4th International Conference, LSSC 2003, s.l.: Springer 2004, S. 197-203.

- **Christian Almeder**: Zustandsmodelle mit kontinuierlicher Altersstruktur. In: Klaus Panreck, Frank Dörrscheidt (Hg.): Frontiers in Simulation: Simulationstechnik, 15. Symposium in Paderborn, Ghent, Belgium 2001, S. 427-430.

- **Siegfried Wassertheurer**, **Christian Almeder, Felix Breitenecker, Johann Krocza, Martin Suda**: Expert system for vascular surgery based on a stationary blood flow model. In: Inge Troch, Felix Breitenecker (Hg.): 3rd MathMod Proceedings of the IMACS Symposium on Mathematical Modelling, Vienna 2000, S. 37-37.

- **Christian Almeder**, **Felix Breitenecker, Johann Krocza, Martin Suda**: A blood flow model based on physical concepts. In: Inge Troch, Felix Breitenecker (Hg.): 3rd MathMod Proceedings of the IMACS Symposium on Mathematical Modelling, Vienna: ARGESIM/ASIM-Verlag 2000, S. 599-602.

- **Christian Almeder**, **Felix Breitenecker, Johann Krocza, Martin Suda**: Simulation of the human arterial system – static and dynamic. In: (Hg.): , Atlanta, USA 1999, S. 251-251.

- **Christian Almeder**, **Felix Breitenecker, Johann Krocza, Nikolas Popper, Martin Suda**: Simulation of the transient flow of blood through the human arterial system. In: Peter Rehak, Helmut Hutten (Hg.): Proceeding of the European Medical and Biological Engineering Conference EMBEC'99, Vienna 1999, S. 1152-1153.

- **Christian Almeder**, **Felix Breitenecker, Siegfried Wassertheurer, Karl Kaser, Johann Krocza, Martin Suda**: Modelling of the human arterial network for preoperative predictions. In: Richard Zobel, Dietmar Moeller (Hg.): Simulation — Past, Present, Future, 12th European Simulation Multiconference, UK: Simulation Councils, Inc. 1998, S. 313-315.

- **Christian Almeder**, **Felix Breitenecker, Siegfried Wassertheurer, Karl Kaser, Johann Krocza, Martin Suda**: Interaktive Beratungssoftware für Gefäßoperationen. In: Peter Lorenz, Bernhard Preim (Hg.): Simulation und Visualisierung '98, Magdeburg: SCS-International 1998, S. 287-300.

- **Wolfgang Bornatowicz**, **Karl Kaser, Johann Krocza, Martin Suda, Christian Almeder, Felix Breitenecker, Siegfried Wassertheurer**: Modelling of the human arterial network for an expert system for preoperative predictions. In: Inge Troch, Felix Breitenecker (Hg.): 2nd MathMod Proceedings of the IMACS Symposium on Mathematical Modelling, Vienna: ARGESIM/ASIM-Verlag 1997, S. 1110-1110.

Journal Articles

- **Fanny Hein**, **Christian Almeder, F. Figueira, B. Almada-Lobo** : Designing new heuristics for the capacitated lot sizing problem by genet-ic programming. In: Computers & Operations Research 96, 2018, S. 1-14.

- **Fanny Hein**, **Christian Almeder**: Quantitative insights into the integrated supply vehicle routing and production planning problem. In: International Journal of Production Economics 177, 2016, S. nn-nn.

- **Tom Vogel**, **Bernardo Almada-Lobo, Christian Almeder**: Integrated versus Hierarchical Approach to Aggregate Production Planning and Master Production Scheduling. In: OR Spectrum 39.1, 2016, S. 193-229.

- **Christian Almeder**, **Diego Klabjan, Renate Traxler, Bernardo Almada-Lobo**: Lead Time Considerations for the Multi-Level Capacitated Lot-Sizing Problem. In: European Journal of Operational Research 241 (3), 2015, S. nn-nn.

- **Margaretha Gansterer**, **Christian Almeder, Richard F. Hartl**: Simulation-Based Optimization Methods for Setting Production Planning Parameters. In: International Journal of Production Economics 151, 2014, S. nn-nn.

- **Andrew Bilyk**, **Lars Mönch, Christian Almeder**: Scheduling Jobs with Ready Times and Precedence Constraints on Parallel Batch Machines Using Metaheuristics. In: Computers & Industrial Engineering 78, 2014, S. nn-nn.

- **Pedro Amorim**, **Herbert Meyr, Christian Almeder, Bernado Almada-Lobo**: Managing perishability in production-distribution planning: a discussion and review. In: Flexible Service and Manufacturing Journal 25 (3), 2013, S. 389-413.

- **Christian Almeder**, **Richard F. Hartl**: A metaheuristic optimization approach for a real-world stochastic flexible flow shop problem with limited buffer. In: International Journal of Production Economics 145 (1), 2013, S. 88-95.

- **Pedro Amorim**, **Marcio Belo-Filho, Franklina Toledo, Christian Almeder, Bernado Almada-Lobo**: Lot sizing versus batching in the production and distribution planning of perishable goods. In: International Journal of Production Economics, 2013, S. nn-nn.

- **Alistair Clark**, **Bernado Almada-Lobo, Christian Almeder**: Lot sizing and scheduling: Industrial extensions and research opportunities. In: International Journal of Production Research 49, 2011, S. 2457-2461.

- **Christian Almeder**, **Lars Mönch**: Metaheuristics for scheduling jobs with incompatible families on parallel batching machines. In: Journal of the Operational Research Society 62, 2011, S. 2083-2096.

- **Christian Almeder**, **Bernado Almada-Lobo**: Synchronization of scarce resources for a parallel machine lotsizing problem. In: International Journal of Production Research 49, 2011, S. 7315-7335.

- **Christian Almeder**: A hybrid optimization approach for multi-level capacitated lot-sizing problems. In: European Journal of Operational Research 200, 2010, S. 599-606.

- **Christian Almeder**, **Margaretha Preusser, Richard F. Hartl**: Simulation and optimization of supply chains: Alternative or complementary approaches?. In: OR Spectrum 31, 2009, S. 95-119.

- **Christian Almeder**, **Gustav Feichtinger, Warren C. Sanderson, Vladimir M. Veliov**: Prevention and medication of HIV/AIDS: The case of Botswana. In: Central European Journal of Operations Research 15, 2007, S. 47-62.

- **Rapeepan Pitakaso**, **Christian Almeder, Karl. F. Doerner, Richard F. Hartl**: A MAX-MIN ant system for unconstrained multi-level lot sizing problems. In: Computers & Operations Research 34, 2007, S. 2533-2552.

- **Rapeepan Pitakaso**, **Christian Almeder, Karl. F. Doerner, Richard F. Hartl**: Combining exact and population-based methods for the Constrained Multilevel Lot Sizing Problem. In: International Journal on Production Research 44, 2006, S. 4755-4771.

- **Christian Almeder**, **Jonathan P. Caulkins, Gustav Feichtinger, Gernot Tragler**: An age-structured single-state drug initiation model – cycles of drug epidemics and optimal prevention programs. In: Socio-Economic Planning Sciences 38, 2004, S. 91-109.

- **Christian Almeder**, **Jonathan P. Caulkins, Gustav Feichtinger, Gernot Tragler**: Age-specific multi-stage drug initiation models: Insights from considering heterogeneity. In: Bulletin on Narcotics LIII, 2001, S. 105-118.