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Computational Logistics

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Date of birth July 16, 1980



Education and Academic Titles

- 11/2013 Professor, Computational Logistics Junior Research Group, University of Bremen
- 12/2011 Dr. rer. pol. (PhD), Dept. of Information Systems, University of Hagen
- 04/2005 Dipl.-Volksw. (M. Sc. in Economics), University of Hagen
- 03/2004 Dipl.-Kfm. (M. Sc. in Business Administration), University of Hagen
- 06/2000 Abitur, Friedrich-Alexander-Gymnasium, Neustadt a. d. Aisch

Professional Experience

Academia

- since 08/2013 Professor / Head of Junior Research Group (untenured) *Computational Logistics*, Faculty of Business Studies & Economics, University of Bremen
- 04/2011 – 07/2013 Assistant Professor, Chair of Logistics, Faculty of Business Studies & Economics, University of Bremen
- 04/2006 – 03/2011 Research assistant, Dept. of Information Systems, Faculty of Business Administration & Economics, University of Hagen
- 10/2005 – 03/2006 Graduate assistant, Dept. of Information Systems, Faculty of Business Administration & Economics, University of Hagen

11/2004 – 10/2005 Student research assistant, Dept. of Information Systems, Faculty of Business Administration & Economics, University of Hagen

Industry

03/2003 – 03/2011 Occasional free-lancing software development, focus on browser games and web-applications

12/2001 – 12/2003 Software developer of web- and e-commerce applications at Xsite GmbH, Düsseldorf, NW, Germany (part time)

11/2000 – 02/2005 Founder and shareholder of the Level15 GmbH, Düsseldorf, NW, Germany, Chief Executive Officer from 7/2001 to 02/2005

09/2000 – 01/2001 National civil service at the IT-department of the hospital facilities of the rural district Neustadt a. d. Aisch / Bad Windsheim, Bavaria, Germany

06/1996 – 12/2002 Founder/owner of the company 'e-games', one of the first German mailorder online shops for computer games

Research Experience

Research Awards

2013 Best Paper Award 11th German Conf. on Multiagent System Technologies (MATES2013)

2012 **PhD Award** of the German Operations Research Society (GOR e.V.)

Third-Party Funding

Starred * applications are under review at the moment.

2015 – 2016 PTOP – Policy-based Terminal Operations Planning

Third-party donor: **Federal Ministry of Education and Research
Germany (BMBF)**

Own part: project manager / coordination

additional applicants: Soondo Hong, Pusan National University, Korea;
Total Soft Bank Ltd., Korea;
ISL Applications GmbH, Germany

Funding code: 01DR17022A

Funds (in Euro): 356.000, own proportion **212.000**

(funding volume of German partners, Korean separate)

2015 – 2016 simTOS – Simulation Based Online Evaluation Engine for Container Terminal Operating System

	Third-party donor:	Federal Ministry of Economic Affairs and Energy, Germany (BMWi / ZIM)
	Own part:	subproject manager
	additional applicants:	Kap Hwan Kim, Pusan National University, Korea; Total Soft Bank Ltd. (coordinator), Korea; ISL Applications GmbH, Germany
	Funding code:	KF3352901
	Funds (in Euro):	1.003.000, own proportion 126.000
2013 – 2018	Cooperative Junior Research Group of University of Bremen and ISL – Institute of Shipping Economics and Logistics	
	Third-party donor:	Excellence Initiative, Germany
	Own part:	project manager
	additional applicants:	n/a
	Funds (in Euro):	450.000, own proportion 450.000
	Comment:	open tender process of University of Bremen in line of the “Institutional Strategy” (german “Zukunftskonzept”)
2007 – 2010	Intelligent cooperative commercial transport planning in an alliance of complementary suppliers	
	Third-party donor:	Federal Ministry of Economic Affairs and Energy, Germany (BMWi)
	Own part:	Assistant of application of the project coordinator
	Applicants:	Giselher Pankratz (coordinator), University of Hagen; Lars Mönch, University of Hagen; WFS Wurst-Fleischwaren-Service Vertriebsg. mbH; GTS Systems and Consulting GmbH; Globit GmbH
	Funds (in Euro):	730.000, own proportion 430.000
2007 – 2010	Intelligent cooperative commercial transport planning in an alliance of complementary suppliers	

Referee for Journals

- 4OR – A Quarterly Journal of Operations Research
- Central European Journal of Operations Research
- Computers & Operations Research
- European Journal of Operational Research
- Expert Systems with Applications
- Flexible Services and Manufacturing Journal
- IEEE Robotics and Automation Letters
- Information Systems Journal
- International Journal of Physical Distribution & Logistics Management

- International Journal of Production Research
- Journal of Industrial and Management Optimization
- Journal of Universal Computer Science
- Logistics Research
- OR Spectrum
- TOP – An Official Journal of the Spanish Society of Statistics and Operations Research
- Transportation Research Part C

Referee for Conference Proceedings or Edited Books

- International Conference on Operations Research (OR 2016)
- International Conference on Dynamics in Logistics (LDIC 2016)
- Hawaii International Conference on System Sciences (HICSS 48)
- International Conference on Dynamics in Logistics (LDIC 2014)
- 4th International Conference on Computational Logistics (ICCL 13)
- 1st Logics International Conference (LOGIC 2013)
- IEEE International Conference on Tools with Artificial Intelligence 2013 (ICTAI13)
- The 2012 International Conference on Logistics and Maritime Systems (LOGMS 2012)
- International Conference on Dynamics in Logistics (LDIC 2012)
- Multikonferenz Wirtschaftsinformatik 2008 (MKWI 2008), Intelligent Systems for Decision Support
- Festschrift for Hermann Gehring, Intelligent Decision Support

Teaching Experience

Lectures at University of Bremen (since 2011)

Lectures as primary instructor and in German, if not indicated otherwise.

- Computational Operations Management (in English)
- Collaborative Transportation (co-instructor with H. Kopfer, M. Bloos)
- Heuristics (co-instructor H. Kopfer)
- Logistics Project II - Modelling of Logistics Systems
- Logistics Seminar
- Model-based Group Decision Making
- Operations Research
- Optimization in Production & Logistics
- Port Logistics
- Transportation Planning and Control

Lectures at University of Hagen (2007 - 2011)

- Data Modelling and Database Systems (2 SWS), winter 2007/08 – winter 2010/11, each term
- Management Support Systems (3 SWS), winter 2007/08 – winter 2010/11, each term
- Information Management (3 SWS), winter 2007/08 – winter 2010/11, each term
- Application Systems and Business Process Modelling (2 SWS), winter 2007/08 – winter 2008/09, each term

Note: All lectures offered by University of Hagen are written course books. I am not the author of the mentioned courses, however, I updated courses, supervise the students (50 to 150 students each course), and I prepared and marked the written exams.

Contribution to major course updates: Assisted in writing a chapter on 'Information Management' (160 pages) and a chapter on 'Mobile Business' (15 pages) of the Bachelor-Module 'Basic Principles of Information Systems'.

Substantial Redesign of Lectures at University of Hagen (2007 - 2011)

Active involvement with the new conception and preparation of

- the chapter on "Informationsmanagement" (information management systems, 160 pages) and
- the chapter on "Mobile Business" (15 pages)

in the course of the Bachelor module "Einführung in die Wirtschaftsinformatik" ("Introduction to information systems") by Gehring and Pankratz.

Workshops at University of Hagen (2007 – 2011)

Supervision of 42 students in three workshops: · Information Systems, instructor H. Gehring. I supervised students in the subject of „Business Process Modelling and Workflow Management Systems‘, winter 2007/08 and summer 2008. · Decision Support Systems, instructor A. Bortfeldt. I supervised students in the subject of 'Introduction to Parallel Systems and Parallel Problem Solving' (winter 2007/08, summer 2008) and 'Metaheuristics', winter 2008/09 – winter 2010/11, each term. · Electronic Business and Logistics, instructor G. Pankratz. I supervised students in the subject of 'Coordination of Goods and Services in Logistics', summer 2009 – winter 2010/11, each term.

Supervision of Bachelor Theses, Master Theses and Diplomarbeiten

- At University of Bremen (since 2011) I supervised 27 theses in the fields of logistics, decision support systems, metaheuristics, and revenue management.
- At University of Hagen (2006 – 2011) I supervised 35 theses in the fields of business process modelling, information systems, decision support systems in logistics, multi agent systems in logistics, collaboration in logistics, and metaheuristics for multicriteria optimization.

Supervision of PhD Students

I support graduate students with the preparation of their PhD theses. In the following, my roles as primary supervisor (**P**) or secondary supervisor (**S**), with a significant contribution (e.g. coauthorship, mentoring) to theses are stated.

- Barz, Implications of additive manufacturing on distribution networks, (**S**), Primary supervisor Haasis
- Behmanesh, (**S**), Pannek
- Guckenbiehl, Collaborative Lot Sizing, (**P**)
- Jacob, Collaborative Transport Planning, (**P**)
- Dr. Ziebuhr, "Operative Planning with Exchangeable and Mandatory Tasks", (**S**), Kopfer
- Dr. Tran, "Studying Network Design in Container Liner Shipping", (**S**), Haasis

Pure assessments and examinations activities [see academic self-administration](#).

Other contributions to postgradual education

- Organization of the 2nd LogDynamics Summer School 2017 (July 2017) on “Coopetitive Control of Supply Chains”
- Organization of the 1st LogDynamics Summer School 2016 (March 2016) on “Control Interfaces in Logistics: Data and Algorithms”.

Training in Higher Education Didactics

- Foundations of teaching and learning (4 days)
- Didactics for teaching and learning in larger groups (2 days)
- Teaching portfolio (2 days)
- Teaching and learning of competencies – competence oriented planning examine (2 days)
- Designing and conducting exams (2 days)
- Evaluation and feedback (2 days)
- Humboldt reloaded – initiate research-based learning (2 days)
- Seminar room and stage of teaching (2 days)
- Rhetoric – presenting professionally and inspirationally (1 day)
- Supervising PhD students (1 day)
- Rhetoric-didactic coaching for newly appointed professors (0.5 days)
- Introduction to conflict mediation (2 days)

Academic Self-Administration Experience

Membership in Committees at University of Bremen

- 2018 Board of examiners, 2nd examiner, doctoral thesis of Julia Funke: “Container Hinterland Drayage – On the Simultaneous Transportation of Containers Having Different Sizes”
- 2018 Board of examiners, 2nd examiner, doctoral thesis of Andreas Barz: “Analyse der Auswirkungen von Additive Manufacturing auf die Gestaltung zweistufiger Supply Chains”
- 2017 Board of examiners, 2nd examiner, doctoral thesis of Mario Ziebuhr: “Operative Planning with Exchangeable and Mandatory Tasks – Applications to Lot Size Planning and Transportation Planning”
- 2016 Board of examiners, doctoral thesis of Fang Li: “Supply Chain GHGs Management under Emission Trading”
- 2015 Board of examiners, 2nd examiner, doctoral thesis of Major Pougom: “Nachhaltigkeitsorientierte Analyse von Wertschöpfungsnetzwerken am Beispiel Kameruns”
- 2015 Board of examiners, 2nd examiner, doctoral thesis of Nguyen Khoi Tran: “Studying Network Design in Container Liner Shipping”
- 2015 Board of examiners, doctoral thesis of Johannes March: “Produktivitätsüberlegungen im Seecontainertransport durch den direkten Umschlag von Transitladung zwischen Großcontainer- und Zubringerschiffen”

- 2015 Board of examiners, doctoral thesis of Claudia Breuer: "Entscheidungsunterstützung für ein operatives Supply Chain Risiko Management: Entwicklung situationsgerechter Handlungsempfehlung zur Risikobewältigung in Logistikknoten am Beispiel von Güterverkehrscentren"
- 2014 Board of examiners, doctoral thesis of Christian Majer: "Analyse und Darstellung von Nachhaltigkeitsaspekten im Spannungsfeld zwischen weltwirtschaftlicher Einbindung und ökologischer Verantwortung Brasiliens am Beispiel der Sojawertschöpfungskette"
- 2014 Board of examiners, doctoral thesis of André Rinne: "After Sales Service in der Offshore-Windenergiebranche – Ein Vergleich von Ersatzteilversorgungsstrategien"
- 2014 Board of examiners, doctoral thesis of Falko Zimmermann: "Die operative Steuerung von Cross-Docking-Centern mit Multiagentensystemen"
- 2014 Board of examiners, doctoral thesis of Iven Krämer: "Die deutschen Seehäfen im Fokus überregionaler Entwicklungspolitik – Eine Folgenabschätzung zum nationalen Hafenkonzept"
- 2014 Board of examiners, doctoral thesis of Johannes Michalski: "Strategische Kollaboration im Ladungsträgermanagement – eine kennzahlenbasierte Analyse dynamischer Systeme und interorganisationaler Synergien"
- 2014 Board of examiners, doctoral thesis of Xin Wang: "Operational Transportation Planning of Modern Freight Forwarding Companies – Vehicle Routing Under Consideration of Subcontracting and Request Exchange"
- 2013 Member habilitation commission Dr. Inga-Lena Darkow
- 2012 Board of examiners, doctoral thesis of Sebastian Sterzik: "Concepts, Mechanisms, and Algorithms to Measure the Potential of Container Sharing in Seaport Hinterland Transportation"

Membership in Committees at University of Hagen

- 2010 – 2012 council of the faculty of Business Administration and Economics (Apr 2010 – Mar 12)
- 2010 – 2011 search committee for the head of Dept. 'Development and Adoption of Information Systems' with a focus in research on decision support systems Oct 2010 – Dec 2010
- 2008 – 2010 council of the faculty of Business Administration and Economics

Conference Activities

- **Local Organization of LOGMS2012 with Jörn Schönberger as main assistant of Kap Hwan Kim, Hans-Otto Günther, and Herbert Kopfer, 220 Participants from 28 Countries.**
- Organisation of contributed sessions: OR2016, EURO2015
- Member of the Program Committee at: LM2017, LDIC 2014
- Member of Organizing Committee at: LOGMS 2012, DR-LOG 2011, LM2013;
- Session Chair at: OR2016, LDIC 2016, LDIC 2014, OR2010, Tristan VII, LM2009

Membership in Professional Associations

- Deutscher Hochschulverband (DHV)
- Gesellschaft für Informatik (GI)
- Gesellschaft für Operations Research (GOR)
- Institute for Operations Research and the Management Sciences (INFORMS)
- Verband der Hochschullehrer für Betriebswirtschaftslehre (VHB); WK LOG, WK OR, WK WI

List of Publications

Current Working Papers Submitted to Refereed Journals

1. Buer, T., Haass, R.: Cooperative liner shipping network design by means of a combinatorial auction. Bremen Computational Logistics Group Working Papers No. 6. University of Bremen, Aug. 2016.
Submitted to *Flexible Services and Manufacturing Journal*, 2x minor
2. Buer, T.: An exact and two heuristic strategies for truthful bidding in combinatorial transport auctions. Working paper arXiv:1406.1928. Computational Logistics, University of Bremen, 2014.
Submitted to *Transportation Research Part B: Methodological*, 1x major, 1x minor

Monograph

1. Buer, T.: Mehrkriterielle Zuschlagserteilung in kombinatorischen Transportausschreibungen. Ed. by B. Fleischmann, M. Grunow, and H.-O. Günther. Produktion & Logistik. Dissertation FernUniversität in Hagen, 2011. Springer-Gabler, 2012.
Dissertation award of the German Operations Research Society (GOR)

Refereed Journal Publications

1. Buer, T., Haass, R.: Cooperative liner shipping network design by means of a combinatorial auction. In: *Flexible Services and Manufacturing Journal* (2017). DOI: [10.1007/s10696-017-9284-8](https://doi.org/10.1007/s10696-017-9284-8).
2. Barz, A., Buer, T., Haasis, H.-D.: A Study on the Effects of Additive Manufacturing on the Structure of Supply Networks. In: *7th IFAC Conference on Management and Control of Production and Logistics (MCPL 2016)*. Bremen, Germany, 2016. DOI: [10.1016/j.ifacol.2016.03.013](https://doi.org/10.1016/j.ifacol.2016.03.013).
3. Buer, T., Kopfer, H.: A Pareto-metaheuristic for a bi-objective winner determination problem in a combinatorial reverse auction. In: *Computers & Operations Research* 41.0 (2014), pp. 208–220. DOI: [10.1016/j.cor.2013.04.004](https://doi.org/10.1016/j.cor.2013.04.004).
4. Buer, T., Homberger, J., Gehring, H.: A collaborative ant colony metaheuristic for distributed multi-level uncapacitated lot-sizing. In: *International Journal of Production Research* 51.17 (2013), pp. 5253–5270. DOI: [10.1080/00207543.2013.802822](https://doi.org/10.1080/00207543.2013.802822).
5. Buer, T., Pankratz, G.: GRASP with Hybrid Path Relinking for Bi-Objective Winner Determination in Combinatorial Transportation Auctions. In: *Business Research* 3.2 (2010), pp. 192–213. DOI: [10.1007/BF03342722](https://doi.org/10.1007/BF03342722).
6. Buer, T., Pankratz, G.: Solving a Bi-Objective Winner Determination Problem in a Transportation Procurement Auction. In: *Logistics Research* 2.2 (2010), pp. 65–78. DOI: [10.1007/s12159-010-0031-8](https://doi.org/10.1007/s12159-010-0031-8).

7. Tran, N. K., Haasis, H.-D., Buer, T.: Container shipping route design incorporating the costs of shipping, inland/feeder transport and CO2 emission. In: *Maritime Economics & Logistics* (in press). DOI: [10.1057/me1.2016.11](https://doi.org/10.1057/me1.2016.11).

Other Refereed Publications

1. Guckenbiehl, G., Buer, T.: "Nucleolus-Based Compensation Payments for Automated Negotiations of Complex Contracts". In: *Group Decision and Negotiation. A Socio-Technical Perspective: 17th International Conference, GDN 2017, Stuttgart, Germany, August 14-18, 2017, Proceedings*. Ed. by M. Schoop and D. M. Kilgour. Cham: Springer International Publishing, 2017, pp. 145–157. DOI: [10.1007/978-3-319-63546-0_11](https://doi.org/10.1007/978-3-319-63546-0_11).
2. Jacob, J., Buer, T.: Impact of Non-truthful Bidding on Transport Coalition Profits. In: *Operations Research Proceedings 2016*. Springer-Verlag, in press, 2017, pp. 203–208. DOI: [10.1007/978-3-319-55702-1_28](https://doi.org/10.1007/978-3-319-55702-1_28).
3. Barz, A., Buer, T., Haasis, H.-D.: A Study on the Effects of Additive Manufacturing on the Structure of Supply Networks. In: *7th IFAC Conference on Management and Control of Production and Logistics (MCPL 2016)*. Bremen, Germany, 2016. DOI: [10.1016/j.ifacol.2016.03.013](https://doi.org/10.1016/j.ifacol.2016.03.013).
4. Jacob, J., Buer, T.: Population-based Negotiation of Contract Clauses and Transportation Request Assignments. In: *IFAC-PapersOnLine 49.12 (2016)*. 8th {IFAC} Conference on Manufacturing Modelling, Management and Control {MIM} 2016 Troyes, France, 28–30 June 2016, pp. 1862–1867. DOI: [10.1016/j.ifacol.2016.07.854](https://doi.org/10.1016/j.ifacol.2016.07.854).
5. Nordsieck, N., Buer, T., Schönberger, J.: A Three-Phase Heuristic for a Multi-Size Container Transport Problem with Partially Specified Requests. In: *Multikonferenz Wirtschaftsinformatik (MKWI) 2016*. Ed. by V. Nissen, D. Stelzer, S. Straßburger, and D. Fischer. Universitätsverlag Ilmenau, Sept. 2016, pp. 217–228.
urn:nbn:de:gbv:ilm1-2016100012
6. Nordsieck, N., Buer, T., Schönberger, J.: Potential of Improving Truck-based Drayage Operations of Marine Terminals through Street Turns. In: *Proceedings of the 5th International Conference on Dynamics in Logistics (LDIC 2016)*. Lecture Notes in Logistics. in press. Springer, 2016.
7. Voß, A., Guckenbiehl, G., Schütt, H., Buer, T.: An online storage strategy with dynamic bay reservations for container terminals. In: *2016 IEEE Symposium Series on Computational Intelligence (SSCI)*. Dec. 2016, pp. 1–8. DOI: [10.1109/SSCI.2016.7850059](https://doi.org/10.1109/SSCI.2016.7850059).
8. Eslikizi, S., Ziebuhr, M., Kopfer, H., Buer, T.: Shapley-based side payments and simulated annealing for distributed lot-sizing. In: *15th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2015)*. Ed. by A. Dolgui, J. Sasiadek, and M. Zaremba. Vol. 48. IFAC-PapersOnLine 3. Elsevier, 2015, pp. 1592–1597. DOI: [10.1016/j.ifacol.2015.06.313](https://doi.org/10.1016/j.ifacol.2015.06.313).

9. Homberger, J., Gehring, H., Buer, T.: Integrating Side Payments into Collaborative Planning for the Distributed Multi-Level Unconstrained Lot Sizing Problem. In: *48th Annual Hawaii International Conference on System Sciences*. IEEE Computer Society Press, 2015, pp. 1068–1077. DOI: [10.1109/HICSS.2015.131](https://doi.org/10.1109/HICSS.2015.131).
 10. Ziebuhr, M., Buer, T., Kopfer, H.: A Collaborative Lot-Sizing Problem with Production Limitations. In: *2015 IEEE Symposium Series on Computational Intelligence*. IEEE Computer Society, 2015, pp. 1005–1012. DOI: [10.1109/SSCI.2015.146](https://doi.org/10.1109/SSCI.2015.146).
 11. Buer, T., Ziebuhr, M., Kopfer, H.: A coordination mechanism for a collaborative lot-sizing problem with rivaling agents. In: *Logistics Management*. Ed. by H. Kotzab, J. Schönberger, J. Dethloff, H.-D. Haasis, and H. Kopfer. Lecture Notes in Logistics. 2014, pp. 325–337. DOI: [10.1007/978-3-319-13177-1_26](https://doi.org/10.1007/978-3-319-13177-1_26).
 12. Reiß, F., Buer, T.: A coordination mechanism for capacitated lot-sizing in non-hierarchical n-tier supply chains. In: *Computational Intelligence in Production and Logistics Systems (CIPLS 2014), 2014 IEEE Symposium on*. IEEE, 2014, pp. 9–15. DOI: [10.1109/CIPLS.2014.7007155](https://doi.org/10.1109/CIPLS.2014.7007155).
 13. Schönberger, J., Buer, T., Kopfer, H.: A Model for the Coordination of 20-foot and 40-foot Container Movements in the Hinterland of a Container Terminal. In: *Proceedings of the 4th International Conference on Computational Logistics (ICCL'13)*. Ed. by D. Pacino and S. V. R. Jensen. Vol. 8197. Lecture Notes in Computer Science. Berlin, Heidelberg: Springer, 2013, pp. 113–127. DOI: [10.1007/978-3-642-41019-2_9](https://doi.org/10.1007/978-3-642-41019-2_9).
 14. Ziebuhr, M., Buer, T., Kopfer, H.: Agent-Negotiation of Lot-Sizing Contracts by Simulated Annealing with Part-Way Resets. In: *Multiagent System Technologies - 11th German Conference, MATES 2013, Koblenz, Germany, Sept 16-20, 2013. Proceedings*. Ed. by M. Klusch, M. Thimm, and M. Paprzycki. Vol. 8076. LNAI. Berlin Heidelberg: Springer, 2013, pp. 166–179.
- Best Paper Award**
15. Buer, T., Kopfer, H.: Bidding in Combinatorial Transport Auctions. In: *Logistikmanagement 2011*. Bamberg, 2011.
 16. Buer, T., Kopfer, H.: Shipper Decision Support for the Acceptance of Bids during the Procurement of Transport Services. In: *Proceedings of the 2nd International Conference on Computational Logistics (ICCL'11)*. Ed. by J. Böse, H. Hu, C. Jahn, X. Shi, R. Stahlbock, and S. Voß. Vol. 6971. LNCS. Springer, 2011, pp. 18–28.
 17. Buer, T., Pankratz, G.: Ein Pareto-Optimierungsverfahren für ein mehrkriterielles Gewinnerermittlungsproblem in einer kombinatorischen Transportausschreibung. In: *Intelligent Decision Support*. Gabler-Verlag, 2008, pp. 113–135.

18. Buer, T., Pankratz, G.: Ein Kennzahlensystem zur Erfolgsmessung in virtuellen Gemeinschaften. In: *Virtuelle Organisationen und neue Medien 2005: Workshop GeNeMe 2005 – Gemeinschaften in Neuen Medien*. Ed. by M. Engelen and K. Meißner. Lohmar: Josef-Eul-Verlag, 2005.

Non Refereed Publications

1. Buer, T.: Multicriteria winner determination in combinatorial transport auctions. In: *OR News* 48 (2013), pp. 10–13.

invited

List of Scientific Talks

First author = speaker

- T1. Voß, A., Guckenbiehl, G., Schütt, H., Buer, T.: An online storage strategy with dynamic bay reservations for container terminals. 2016 IEEE Symposium on Computational Intelligence in Production and Logistics Systems (CIPLS'16), Dec 6 – Dec 9, 2016, Athens, Greece.
- T2. Guckenbiehl, G.; Buer, T.: An agent-driven negotiation protocol with Aumann/Maschler nucleolus side payments for a distributed lot-sizing problem. International Conference on Operations Research (OR 2016), Aug 30 – Sep 2, 2016, Hamburg, Germany. **(Invited)**
- T3. Jacob, J.; Buer, T.: Impact of Non-truthful Bidding on Transport Coalition Profits. International Conference on Operations Research (OR 2016), Aug 30 – Sep 2 2016, Hamburg, Germany. **(Invited)**
- T4. Jacob, J.; Buer, T.: Population-based Negotiation of Contract Clauses and Transportation Request Assignments. 8th IFAC Conference on Manufacturing Modelling, Management and Control (MIM 2016), Troyes, France, June 28–30, 2016.
- T5. Nordsieck, N.; Buer, T.; Schönberger, J.: A Three-Phase Heuristic for a Multi-Size Container Transport Problem with Partially Specified Requests. Multikonferenz Wirtschaftsinformatik (MKWI) 2016. Ilmenau, Germany, Mar 9–11, 2016.
- T6. Barz, A.; Buer, T.; Haasis, H.-D.: A Study on the Effects of Additive Manufacturing on the Structure of Supply Networks. 7th IFAC Conference on Management and Control of Production and Logistics (MCPL2016), Bremen, Germany, Feb 22–24, 2016.
- T7. Nordsieck, N.; Buer, T.; Schönberger, J.: Potential of Improving Truck-based Drayage Operations of Marine Terminals through Street Turns. 5th International Conference on Dynamics in Logistics (LDIC2016), Bremen, Germany, Feb 22–24, 2016.
- T8. Ziebuhr, M.; Buer, T.; Kopfer, H.: A Collaborative Lot-Sizing Problem with Production Limitations, IEEE Symposium Series on Computational Intelligence 2015, Dec 7–10 2015, Cape Town, South Africa.
- T9. Buer, T.: Bundle Bid Generation Strategies for Transport Auctions. 27th European Conference on Operational Research (EURO XXV), Glasgow, Scotland, July 8–11, 2015. **(Invited)**
- T10. Buer, T.: Approaches for a Carrier's Bid Generation Problem in a Combinatorial Transport Auction. 4th Meeting of the EURO Working Group on Vehicle Routing and Logistics Optimization (VeRoLog 2015), June 8–10, 2015, Vienna, Austria.
- T11. Ziebuhr, M.; Eslikizi, S.; Kopfer, H.; Buer, T.: Shapley-based side payments and simulated annealing for distributed lot-sizing, 15th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2015), May 11–13, 2015, Ottawa, Canada, 13.05.2015.

- T12. Buer, T.: Bietstrategien für eine kombinatorische Transportauktion. Tagung der Wissenschaftlichen Kommission Operations Research (WK OR), Feb 5–6, 2015, Hagen, Germany.
- T13. Buer, T.; Reiß, F.: A coordination mechanism for capacitated lot-sizing in non-hierarchical n -tier supply chains. 2014 IEEE Symposium on Computational Intelligence in Production and Logistics Systems (CIPLS'14, IEEE-SSCI 2014), Dec 9–12 2014, Orlando, Florida, USA.
- T14. Buer, T.: Auction-based network optimization for a coalition of liner shippers. 3rd International Symposium on Innovative Logistics Management, Nov 26–28 2014, Bremen, Deutschland.
- T15. Buer, T.; Haass, R.: Cooperative liner shipping network design by means of a combinatorial auction. International Conference on Logistics and Maritime Systems 2014 (LOGMS 2014), Aug 27–29 2014, Rotterdam, Niederlande.
- T16. Buer, T.; Schönberger, J.; Kopfer, H.: Transportation of Containers in the hinterland of a container terminal. International Conference on International Trade, Logistics and Port Management, Oct 8–11 2013, Nanning, Guangxi, China.
- T17. Buer, T.; Schönberger, J.; Kopfer, H.: A Model for the Coordination of 20-foot and 40-foot Container Movements in the Hinterland of a Container Terminal. International Conference on Computational Logistics 2013 (ICCL 2013), Sept 25–27 2013, Copenhagen, Denmark.
- T18. Buer, T.; Schönberger, J.; Kopfer, H.: Synchronizing transport requests, containers, and trucks in the hinterland of a container terminal. International Conference of the German OR Society 2013 (OR 2013), Sept 3–6 2013, Rotterdam, Netherlands.
- T19. Buer, T.: Multicriteria Winner Determination in Combinatorial Transport Auctions. International Annual Conference of the German OR Society 2012 (OR 2012), Sept 6th, 2012, Hannover, Germany. **(Invited for PhD-Award Session)**
- T20. Klinck, C.-F.; Buer, T.; Kopfer, H.: Examination Timetabling with Invigilator Criteria. International Annual Conference of the German OR Society 2012 (OR 2012), Sept 4–7, 2012, Hannover, Germany.
- T21. Buer, T.; Kopfer, H.: Discovering synergies between freight requests for solving a bid construction problem. 12th Conference of the IFIP working group 7.6 on Advanced Analytics, Aug 29–31, 2012, Aachen, Germany. **(Invited)**
- T22. Buer, T.; Kopfer, H.: Heuristic Strategies for Bundle Bidding in Transport Auctions. 25th European Conference on Operational Research (EURO XXV), Vilnius, Lithuania, July 8–11 2012.
- T23. Buer, T.; Kopfer, H.: Bidding in Combinatorial Transport Auctions. Tagung Logistikmanagement 2011, Bamberg, Germany, Sept 28–30 2011.

- T24. Buer, T.; Kopfer, H.: Shipper Decision Support for the Acceptance of Bids during the Procurement of Transport Services. 2nd International Conference on Computational Logistics, Hamburg, Germany, Sept 19–22 2011.
- T25. Buer, T.; Kopfer, H.: Generation and Evaluation of Bundle Bids for a Combinatorial Transport Auction. International Conference on Operations Research (OR 2011), Zurich, Switzerland, Aug 30 – Sept 2 2011.
- T26. Buer, T.; Pankratz, G.: Hybridizing Path-Relinking with Branch-and-Bound for Carrier Selection in Transportation Procurement Auctions. International Conference on Operations Research (OR 2010), Munich, Germany, Sept 1–3 2010.
- T27. Buer, T.; Pankratz, G.: Auction-based request re-allocation in large-scale transport cooperations considering cost and quality. 24th European Conference on Operational Research (EURO XXIV), Lisbon, Portugal, July 11–14 2010.
- T28. Buer, T.; Pankratz, G.: Exact and Metaheuristic Approaches for Bi-Objective Winner Determination in Transportation Procurement Auctions. Tristan VII, Tromsø, Norway, Jun 20–25 2010.
- T29. Buer, T.; Pankratz, G.: Bikriterielle Zuschlagserteilung in kombinatorischen Transportausschreibungen. Logistik Management 2009, Hamburg, Deutschland Sept 2-5 2009.
- T30. Buer, T.; Pankratz, G.: Bi-objective winner determination in trucking contract procurement auctions. EURO XXIII - 23rd European Conference on Operational Research, Bonn, Germany, July 5–8 2009.
- T31. Buer, T.: Zuschlagserteilung in bikriteriellen kombinatorischen Auktionen. Forschungscluster 'Intelligent Systems for Decision Support' der FernUniversität in Hagen. Balve, Oct 2008.
- T32. Buer, T.; Pankratz, G.: A Pareto-Optimizer for a Multiobjective Winner Determination Problem in a Combinatorial Procurement Auction for Trucking Contracts. International Conference Operations Research 2008 (OR 2008). Augsburg, Germany, Sept 3–5 2008.
- T33. Buer, T.: Zuschlagserteilung in Transportausschreibungen bei Verbundeffekten und mehreren Zielsetzungen. Vortrag im Forschungscluster 'Intelligent Systems for Decision Support' der FernUniversität in Hagen, May 2008.
- T34. Buer, T.: Ein Kennzahlensystem zur Erfolgsmessung in virtuellen Gemeinschaften. Workshop GeNeMe 2005 - Gemeinschaften in Neuen Medien, Dresden, Germany, Oct 6–7 2005.