

List of Publications of Prof. Martin Bichler

Refereed Journal Publications

1. M. Bichler, V. Gretschno, and V. Janssen. Bargaining in spectrum auctions: A review of the german auction in 2015. **Telecommunications Policy**, to appear, 2017.
2. S. Albers, M. Bichler, F. Brandt, P. Gritzmann, and R. Kolisch. Algorithmic economics und operations research. **Informatik Spektrum**, to appear, 2017.
3. S. Fadaei and M. Bichler. Truthfulness with value-maximizing bidders: On the limits of approximation in combinatorial markets. **European Journal of Operational Research**, to appear, 2017.
4. M. Bichler and J. Goeree. Frontiers in spectrum auction design. **International Journal of Industrial Organization**, forthcoming, 2016.
5. M. Bichler, Z. Hao, and G. Adomavicius. Coalition-based pricing in ascending combinatorial auctions. **INFORMS Information Systems Research**, forthcoming, 2016.
6. F. Diebold and M. Bichler. Matching with indifferences: A comparison of algorithms in the context of course allocation. **European Journal of Operational Research**, to appear, 2016.
7. S. Fadaei and M. Bichler. Generalized assignment problem: Truthful mechanism design without money. **Operations Research Letters**, to appear, 2016.
8. K. Guler, M. Bichler, and J. Petrakis. Ascending combinatorial auctions with risk averse bidders. **INFORMS Group Decision and Negotiation**, 24, 2015.
9. A. Goetzendorff, M. Bichler, B. Day, and P. Shabalin. Compact bid languages and core-pricing in large multi-item auctions. **Management Science**, online March, 2015
10. M. Bichler, K. Guler, and S. Mayer. Split-award procurement auctions: Can bayesian equilibrium strategies predict human bidding behavior in multi-object auctions? **Production and Operations Management**, 24(6), 2015.
11. M. Bichler, J. Goeree, S. Mayer, and P. Shabalin. Simple auctions for complex sales: Bid languages and spectrum auction design. **Telecommunications Policy**, 2014.
12. F. Diebold, H. Aziz, M. Bichler, F. Matthes, and A. Schneider. Course Allocation via Stable Matching. **Business and Information Systems Engineering**, 56(2), 2014.
13. M. Bichler, P. Shabalin, and J. Wolf. Do core-selecting combinatorial clock auctions always lead to high efficiency? An experimental analysis of spectrum auction designs. **Experimental Economics**, 16(4):511-545, 2013.
14. C. Hass, M. Bichler, K. Guler. Optimization-based decision support for scenario analysis in sourcing markets with economies of scale and scope. **Electronic Commerce Research and Applications**, 12(3):152–165, 2013.

15. M. Bichler, P. Shabalin, and G. Ziegler. Efficiency with linear prices? a theoretical and experimental analysis of the combinatorial clock auction. *INFORMS Information Systems Research*, 24:394-417, 2013..
16. I. Petrakis, G. Ziegler, and M. Bichler. Combinatorial auctions with allocation constraints: Game-theoretical and computational properties of generic pricing rules. *INFORMS Information Systems Research*, 24(3):768-786, 2013.
17. T. Setzer, M. Bichler. Using matrix approximation for high-dimensional server allocation problems. *European Journal on Operational Research*, 227(1):62–75, 2012.
18. T. Scheffel, G. Ziegler, M. Bichler. On the impact of package selection in combinatorial auctions: an experimental study in the context of spectrum auction design. *Experimental Economics*, 15:667-692, 2012.
19. I. Petrakis, C. Hass, and M. Bichler. On the impact of real-time information on field service scheduling. *Decision Support Systems*, 53:282-293, 2012.
20. M. Bichler, A. Gupta, W. Ketter: Designing smart markets. *INFORMS Information Systems Research*, 21:688-699, 2011.
21. M. Bichler, S. Schneider, K. Guler, and M. Sayal. Compact bidding languages and supplier selection for markets with economies of scale and scope. *European Journal on Operational Research*, 214(1):67-77, 2011.
22. T. Dierkes, M. Bichler, and R. Krishnan. Estimating the effect of word of mouth on churn and cross-buying in the mobile phone market with markov logic networks. *Decision Support Systems*, 51:361-371, 2011.
23. T. Scheffel, A. Pikovsky, M. Bichler, and K. Guler. An experimental comparison of linear and non-linear price combinatorial auctions. *INFORMS Information Systems Research*, 22(2):346-368, 2011.
24. O. Hühn, C. Markl, and M. Bichler. On the predictive performance of queueing network models for large-scale distributed transaction processing systems. *Information Technology & Management*, (2-3):135-149, 2010.
25. C. Markl, O. Hühn, and M. Bichler. Short-term performance management by priority-based queueing. *Service Oriented Computing and Applications*, Springer Verlag, 3:169-180, 2010.
26. S. Schneider, P. Shabalin, and M. Bichler. On the robustness of non-linear personalized price combinatorial auctions. *European Journal on Operational Research*, 206:248-259, 2010.
27. B. Speitkamp and M. Bichler. A mathematical programming approach for server consolidation problems in virtualized data centers. *IEEE Transactions on Services Computing*, 3:266-278, 2010.
28. M. Bichler, A. Pikovsky, and T. Setzer. An analysis of design problems in combinatorial procurement auctions. *Business & Information Systems Engineering*, 51(1), 2009.

29. M. Bichler, P. Shabalin, and A. Pikovsky. A computational analysis of linear price iterative combinatorial auction formats. *INFORMS Information Systems Research*, 20(1):33-59, 2009.
30. C. Kiss and M. Bichler. Identification of influencers - measuring influence in customer networks. *Decision Support Systems*, 46(1):233-253, 2008.
31. A. Paschke and M. Bichler. Knowledge representation concepts for automated SLA management. *Decision Support Systems*, 46(1):187-205, 2008.
32. M. Bichler and T. Setzer. Admission control for media on demand services. *Service Oriented Computing and Application*, 1(1):65-73, 2007.
33. R. Brandl, M. Bichler, and M. Ströbel. Cost accounting for shared IT infrastructures - estimating resource utilization in distributed IT architectures. *Wirtschaftsinformatik*, 49(2):83-94, 2007.
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38. M. Bichler, A. Pikovsky, T. Setzer. Kombinatorische Auktionen in der betrieblichen Beschaffung – Eine Analyse grundlegender Entwurfsprobleme, *Wirtschaftsinformatik* 47 (2005) 2, pp. 126-134.
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**Unrefereed
Articles in
Journals or
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1. W. van der Aalst, M. Bichler, and A. Heinzl. Open research in business and information systems engineering. *Business and Information Systems Engineering*, 57, 2016.
2. A. Heinzl, M. Bichler, and W. van der Aalst. Disciplinary pluralism, flagship conferences, and journal submissions. *Business and Information Systems Engineering*, 58(4), 2016.
3. A. Heinzl, R. Winter, and M. Bichler. Internationalization of information systems research and teaching. *Business and Information Systems Engineering*, 57(4), 2015.
4. M. Bichler, A. Heinzl, and R. Winter. Practice impact of IS research. *Business and Information Systems Engineering*, 57(2), 2015.
5. R. Winter, M. Bichler, and A. Heinzl. Teaching: The little brother of research. *Business and Information Systems Engineering*, 57(6), 2015.
6. M. Bichler. Reflections on design science research in information systems. *Business and Information Systems Engineering*, 56(1):3, 2014.
7. M. Bichler, T. Setzer. Web Service Technologies, *Enzyklopedie der Wirtschaftsinformatik*, Hrsg.: Kurbel, K.; Becker, J.; Gronau, N.; Sinz, E.; Suhl, L. Oldenburg Wissenschaftsverlag, <http://www.oldenbourg.de:8080/wi-enzyklopaedie>
8. M. Bichler. Kombinatorische Online-Verhandlung bei Audi - wie Aristoteles irrte. *Beschaffung aktuell*, 9, 2008.
9. M. Bichler: Für Sie gelesen: Design Science in Information Systems Research, by A. Hevner, S. T. March, J. Park, S. Ram. *Wirtschaftsinformatik* 48 (2006) 2.

10. M. Bichler, G. Richter. How to get Value out of IT? **Information Management & Consulting**, December 2004, pp. 1-8.
11. M. Bichler, S. Field, H. Werthner. Theory and Application of Electronic Market Design. **Electronic Commerce Research Journal** 1(2001) 3, Special Issue on Theory and Application of Electronic Market Design, pp. 215-220.
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13. M. Bichler, W. Langenberger. CAWE - Computer Aided WWW Engineering. Dokumentenmanagement im WWW. **iX - Magazin fuer Professionelle Informationstechnik** (1997) 9.
14. M. Bichler, A. Freygnier. Make or Buy - Vergleich kommerzieller WWW-Standardsoftware für On-line Shoppingsysteme. **iX-Magazin für Professionelle Informationstechnik** (1997) 8.
15. M. Bichler. Hyperbase - World Wide Web: Basis für betriebliche Anwendungen. **iX-Magazin für Professionelle Informationstechnik** (1996) 8.

Books and Book Chapters

1. M. Bichler: Combinatorial Auctions: Complexity and Algorithms, **Wiley Encyclopedia on Operations Research and Management Science**. <http://eu.wiley.com/WileyCDA/Section/id-380199.html>
2. M. Bichler and J. Kalagnanam. Industrial procurement auctions. In **Combinatorial Auctions**. **MIT Press Cambridge**, MA, USA, 2005.
3. M. Bichler, T. Hess, H. Krcmar, U. Lechner, F. Matthes, A. Picot, B. Speitkamp, P. Wolf. Tagungsband der Multikonferenz Wirtschaftsinformatik 2008, **GITO-Verlag** 2008 Berlin, ISBN 978-3-940019-34-9.
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7. M. Bichler, C. Holtmann, S. Kirn, J. Müller, C. Weinhardt (Eds.): **Coordination and Agent Technology in Value Networks**. Track Proceedings of the Multi-Conference on Information Systems (MKWI), **GITO**, 2004.
8. M. Bichler, G. Neumann. Quo vadis, IT: Über Neue Medien und deren Einfluss auf die Betriebswirtschaft, K. Küting, H.C. Noack (ed), **Der große BWL-Führer**, 108-115, **Frankfurter Allgemeine Buch**, 2003.
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14. M. Bichler, H. Werthner. Elektronische Märkte - Ein neuer Trend in der betrieblichen Beschaffung. Schweighofer, E.; Menzel, T.: Jahrbuch der Rechtsinformatik 2000, **Verlag Österreich**.
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Conference Presentations & Publications

1. M. Bichler. Market design - foundations and applications. In W. Abramowicz, editor, Business Information Systems, Lecture Notes in Business Information Processing. Springer, 2013.
2. A. Wolke, M. Bichler, and T. Setzer. Energy efficient virtual machine allocation in data centers: real-time control versus offline planning. In Workshop on Information Technology and Systems (WITS13), Milan, December 2013.
3. M. Bichler, Z. Hao, and C. Kroemer. Coordination support in ascending core-selecting combinatorial auctions. In Conference on Information Technologies and Systems (CIST12), Phoenix, AZ, USA, 2012.
4. K. Guler, I. Petrakis, and M. Bichler. Equilibrium bidding in ascending combinatorial auctions with risk averse bidders. In Conference on Information Systems and Technology (CIST), Phoenix, Arizona, USA, 2012.
5. K. Guler, X. Zhen, S. Mayer, and M. Bichler. Strategic bidding in procurement auctions with multiple lots. In: Informs Annual Meeting, Phoenix, Arizona, USA, 2012.
6. C. Hass, M. Bichler, and K. Guler. Optimization-based decision

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7. M. Seibold, A. Wolke, M. Albutiu, M. Bichler, A. Kemper, and T. Setzer. Efficient deployment of main-memory dbms in virtualized data centers. volume 0, pages 311-318, Los Alamitos, CA, USA, 2012. IEEE Computer Society.
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 23. M. Bichler, K. Guler, F. Safai, M. Sayal, J. Armstrong, R. Hudson, and J. Price. Leveraging economies of scale and scope in enterprise strategic procurement. In *HP TechCon*, 2008.
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 25. B. Speitkamp, M. Bichler, and T. Setzer. Capacity planning for virtualized it service infrastructures. In *POMS, editor, College of Service Operations 2007 Conference*, London, U.K., 2007.
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Patents

1. Patent application at the European Patent Office "Trace-Based Capacity Planning and Resource Allocation Method for Virtualized Servers", together with Thomas Setzer and Benjamin Speitkamp in cooperation with Siemens Business Services, December 6, 2006.
2. Patent application at the European Patent Office "Verfahren zur Steuerung eines Zugriffs auf Ressourcen eines Datenverarbeitungssystems und Steuerungsprogramms", together with Thomas Setzer and in cooperation with Siemens Business Services, September 12, 2005.
3. Co-author of patents on auction technology at IBM Research.

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