

List of Publications of Prof. Martin Bichler

Refereed Journal Publications

1. M. Bichler and P. Paulsen. A principal-agent model of bidding firms in multi-unit auctions. *Games and Economic Behavior*, conditionally accepted, 2018.
2. A. Goetzendorff, M. Bichler, and J. K. Goeree. Synergistic valuations and efficiency in spectrum auctions. *Telecommunications Policy*, 42(1):91 – 105, 2018.
3. M. Bichler and S. Waldherr. Core and pricing equilibria in combinatorial exchanges. *Economics Letters*, 157:145 – 147, 2017.
4. M. Bichler, V. Fux, and J. Goeree. A matter of equality: Linear pricing in combinatorial exchanges. *INFORMS Information Systems Research*, 28, to appear, 2018.
5. S. Fadaei and M. Bichler. A truthful mechanism for the generalized assignment problem. *ACM Transactions on Economics and Computation (TEAC)*, 5(3):14, 2017.
6. S. Albers, M. Bichler, F. Brandt, P. Gritzmam, and R. Kolisch. Algorithmic economics und operations research. *Informatik Spektrum*, 40(2):165–171, 2017.
7. M. Bichler, V. Gretschnko, and M. Janssen. Bargaining in spectrum auctions: a review of the German auction in 2015. *Telecommunications Policy*, 41(5-6):325–340, 2017.
8. F. Diebold and M. Bichler. Matching with indifferences: A comparison of algorithms in the context of course allocation. *European Journal of Operational Research*, 260(1):268–282, 2017.
9. S. Fadaei and M. Bichler. Truthfulness with value-maximizing bidders: On the limits of approximation in combinatorial markets. *European Journal of Operational Research*, 260(2):767–777, 2017.
10. M. Bichler and J. K. Goeree. Frontiers in spectrum auction design. *International Journal of Industrial Organization*, 50:372–391, 2017.
11. M. Bichler, Z. Hao, and G. Adomavicius. Coalition-based pricing in ascending combinatorial auctions. *Information Systems Research*, 28(1):159–179, 2017.
12. S. Fadaei and M. Bichler. Generalized assignment problem: Truthful mechanism design without money. *Operations Research Letters*, 45(1):72–76, 2017.
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14. A. Goetzendorff, M. Bichler, B. Day, and P. Shabalin. Compact bid languages and core-pricing in large multi-object auctions. *Management Science*, 61(7):1684 – 1703, 2015 .
15. 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.

16. M. Bichler, J. Goeree, S. Mayer, and P. Shabalin. Spectrum auction design: Simple auctions for complex sales. *Telecommunications Policy*, 38:613–622, 2014.
17. F. Diebold, H. Aziz, M. Bichler, F. Matthes, and A. Schneider. Course Allocation via Stable Matching. *Business and Information Systems Engineering*, 56(2), 2014.
18. 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.
19. 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.
20. 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..
21. 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.
22. T. Setzer, M. Bichler. Using matrix approximation for high-dimensional server allocation problems. *European Journal on Operational Research*, 227(1):62–75, 2012.
23. 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.
24. 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.
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28. 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.
29. 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.

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31. 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.
32. 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.
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38. 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.
39. M. Bichler and J. Kalagnanam. Software frameworks for advanced procurement auction markets. *Communications of the ACM (CACM)*, 49(12):104-108, 2006.
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**Unrefereed
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2. M. Bichler, A. Heinzl, and W. van der Aalst. Business analytics and data science: Once again? *Business and Information Systems Engineering*, 58(2), 2017.
3. W. van der Aalst, M. Bichler, and A. Heinzl. Open research in business and information systems engineering. *Business and Information Systems Engineering*, 57(6), 2016.
4. A. Heinzl, M. Bichler, and W. van der Aalst. Disciplinary pluralism, flagship conferences, and journal submissions. *Business and Information Systems Engineering*, 58(4), 2016.

5. A. Heinzl, R. Winter, and M. Bichler. Internationalization of information systems research and teaching. *Business and Information Systems Engineering*, 57(4), 2015.
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9. M. Bichler, T. Setzer. *Web Service Technologies*, Enzykopedie der Wirtschaftsinformatik, Hrsg.: Kurbel, K.; Becker, J.; Gronau, N.; Sinz, E.; Suhl, L. Oldenburg Wissenschaftsverlag, <http://www.oldenbourg.de:8080/wi-enzyklopaedie>
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Books and Book Chapters

1. M. Bichler and J. Goeree. *Handbook of Spectrum Auction Design*, Cambridge University Press, 2017.
2. M. Bichler. *Market Design: A Linear Programming Approach to Auctions and Matching*, Cambridge University Press, 2017.
3. M. Bichler. *Combinatorial Auctions: Complexity and Algorithms*, Wiley Encyclopedia on Operations Research and Management Science. <http://eu.wiley.com/WileyCDA/Section/id-380199.html>

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**Conference
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& Publications**

19. M. Bichler. Aufbau unternehmensweiter WWW-Informationssysteme. Vieweg Verlag, (Edition „Multimedia Engineering“), Wiesbaden, Germany, 1997.
20. H. Hansen, C. Bauer, M. Bichler, W. Blocher, C. Drimmel, A. Forstner, S. Nusser, and A. Schuster. Klare Sicht am Infohighway – Geschäfte via Internet & Co. Orac Verlag, Vienna, Austria, 1996.
1. P. Sutterer, S. Waldherr, and M. Bichler. Are truthful bidders paying too much? efficiency and revenue in display ad auctions. In Workshop on Information Technology and Systems (WITS17), Seoul, South Korea, 2017.
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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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