

# Martin Bichler

## List of Publications by Year in descending order

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Version: 2024-02-01

106  
papers

2,799  
citations

331259

21  
h-index

197535

49  
g-index

124  
all docs

124  
docs citations

124  
times ranked

2006  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robotic Process Automation. Business and Information Systems Engineering, 2018, 60, 269-272.	4.0	349
2	Identification of influencers " Measuring influence in customer networks. Decision Support Systems, 2008, 46, 233-253.	3.5	308
3	A Mathematical Programming Approach for Server Consolidation Problems in Virtualized Data Centers. IEEE Transactions on Services Computing, 2010, 3, 266-278.	3.2	268
4	An experimental analysis of multi-attribute auctions. Decision Support Systems, 2000, 29, 249-268.	3.5	211
5	Configurable offers and winner determination in multi-attribute auctions. European Journal of Operational Research, 2005, 160, 380-394.	3.5	173
6	Towards a Structured Design of Electronic Negotiations. Group Decision and Negotiation, 2003, 12, 311-335.	2.0	161
7	Research Commentary "Designing Smart Markets. Information Systems Research, 2010, 21, 688-699.	2.2	115
8	Knowledge representation concepts for automated SLA management. Decision Support Systems, 2008, 46, 187-205.	3.5	87
9	Responsible Data Science. Business and Information Systems Engineering, 2017, 59, 311-313.	4.0	68
10	A Computational Analysis of Linear Price Iterative Combinatorial Auction Formats. Information Systems Research, 2009, 20, 33-59.	2.2	59
11	Estimating the effect of word of mouth on churn and cross-buying in the mobile phone market with Markov logic networks. Decision Support Systems, 2011, 51, 361-371.	3.5	55
12	Do core-selecting Combinatorial Clock Auctions always lead to high efficiency? An experimental analysis of spectrum auction designs. Experimental Economics, 2013, 16, 511-545.	1.0	49
13	More than bin packing: Dynamic resource allocation strategies in cloud data centers. Information Systems, 2015, 52, 83-95.	2.4	49
14	An Experimental Comparison of Linear and Nonlinear Price Combinatorial Auctions. Information Systems Research, 2011, 22, 346-368.	2.2	48
15	On the impact of package selection in combinatorial auctions: an experimental study in the context of spectrum auction design. Experimental Economics, 2012, 15, 667-692.	1.0	32
16	Business Analytics and Data Science: Once Again?. Business and Information Systems Engineering, 2017, 59, 77-79.	4.0	31
17	Industrial Procurement Auctions. , 2005, , 593-612.		30
18	Spectrum auction design: Simple auctions for complex sales. Telecommunications Policy, 2014, 38, 613-622.	2.6	28

#	ARTICLE	IF	CITATIONS
19	Theories in Business and Information Systems Engineering. Business and Information Systems Engineering, 2016, 58, 291-319.	4.0	28
20	Matching with indifferences: A comparison of algorithms in the context of course allocation. European Journal of Operational Research, 2017, 260, 268-282.	3.5	27
21	Compact bidding languages and supplier selection for markets with economies of scale and scope. European Journal of Operational Research, 2011, 214, 67-77.	3.5	25
22	Compact Bid Languages and Core Pricing in Large Multi-item Auctions. Management Science, 2015, 61, 1684-1703.	2.4	25
23	Efficiency with Linear Prices? A Game-Theoretical and Computational Analysis of the Combinatorial Clock Auction. Information Systems Research, 2013, 24, 394-417.	2.2	24
24	Coordination Is Hard: Electronic Auction Mechanisms for Increased Efficiency in Transportation Logistics. Management Science, 2019, 65, 5884-5900.	2.4	24
25	Cost accounting for shared IT infrastructures. Business & Information Systems Engineering, 2007, 49, 83-94.	0.5	18
26	Using matrix approximation for high-dimensional discrete optimization problems: Server consolidation based on cyclic time-series data. European Journal of Operational Research, 2013, 227, 62-75.	3.5	18
27	Ascending Combinatorial Auctions with Allocation Constraints: On Game Theoretical and Computational Properties of Generic Pricing Rules. Information Systems Research, 2013, 24, 768-786.	2.2	18
28	Views on the Past, Present, and Future of Business and Information Systems Engineering. Business and Information Systems Engineering, 2018, 60, 443-477.	4.0	17
29	Admission control for media on demand services. Service Oriented Computing and Applications, 2007, 1, 65-73.	1.3	16
30	Coalition-Based Pricing in Ascending Combinatorial Auctions. Information Systems Research, 2017, 28, 159-179.	2.2	16
31	Course Allocation via Stable Matching. Business and Information Systems Engineering, 2014, 6, 97-110.	4.0	15
32	Split-Award Procurement Auctions—Can Bayesian Equilibrium Strategies Predict Human Bidding Behavior in Multi-Object Auctions?. Production and Operations Management, 2015, 24, 1012-1027.	2.1	15
33	Bargaining in spectrum auctions: A review of the German auction in 2015. Telecommunications Policy, 2017, 41, 325-340.	2.6	14
34	Electricity Markets in a Time of Change: A Call to Arms for Business Research. Schmalenbachs Zeitschrift Fur Betriebswirtschaftliche Forschung, 2022, 74, 77-102.	0.5	14
35	Reproducible experiments on dynamic resource allocation in cloud data centers. Information Systems, 2016, 59, 98-101.	2.4	12
36	Designing combinatorial exchanges for the reallocation of resource rights. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 786-791.	3.3	12

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37	An Analysis of Design Problems in Combinatorial Procurement Auctions. Business and Information Systems Engineering, 2009, 1, 111-117.	4.0	11
38	The beauty of Dutch: Ex-post split-award auctions in procurement markets with diseconomies of scale. European Journal of Operational Research, 2019, 278, 202-210.	3.5	11
39	Non-monetary coordination mechanisms for time slot allocation in warehouse delivery. European Journal of Operational Research, 2020, 286, 897-907.	3.5	11
40	Open Research in Business and Information Systems Engineering. Business and Information Systems Engineering, 2016, 58, 375-379.	4.0	10
41	Frontiers in spectrum auction design. International Journal of Industrial Organization, 2017, 50, 372-391.	0.6	10
42	Reflections on the State of Design Science Research. Business and Information Systems Engineering, 2014, 6, 71-72.	4.0	9
43	(Un)expected Bidder Behavior in Spectrum Auctions: About Inconsistent Bidding and Its Impact on Efficiency in the Combinatorial Clock Auction. Group Decision and Negotiation, 2016, 25, 31-63.	2.0	9
44	Walrasian equilibria from an optimization perspective: A guide to the literature. Naval Research Logistics, 2021, 68, 496-513.	1.4	9
45	Learning equilibria in symmetric auction games using artificial neural networks. Nature Machine Intelligence, 2021, 3, 687-695.	8.3	8
46	A non-parametric estimator for setting reservation prices in procurement auctions. Information Technology and Management, 2006, 7, 157-169.	1.4	7
47	On the predictive performance of queueing network models for large-scale distributed transaction processing systems. Information Technology and Management, 2009, 10, 135-149.	1.4	7
48	Practice Impact of IS Research. Business and Information Systems Engineering, 2015, 57, 87-89.	4.0	7
49	Generalized assignment problem: Truthful mechanism design without money. Operations Research Letters, 2017, 45, 72-76.	0.5	7
50	Truthfulness with value-maximizing bidders: On the limits of approximation in combinatorial markets. European Journal of Operational Research, 2017, 260, 767-777.	3.5	6
51	First-Price Split-Award Auctions in Procurement Markets with Economies of Scale: An Experimental Study. Production and Operations Management, 2019, 28, 721-739.	2.1	6
52	Truthfulness and Approximation with Value-Maximizing Bidders. Lecture Notes in Computer Science, 2016, , 235-246.	1.0	6
53	Efficient Deployment of Main-Memory DBMS in Virtualized Data Centers. , 2012, , .		5
54	Diversity and Quality in BISE Research. Business and Information Systems Engineering, 2014, 6, 313-316.	4.0	5

#	ARTICLE	IF	CITATIONS
55	A principal-agent model of bidding firms in multi-unit auctions. Games and Economic Behavior, 2018, 111, 20-40.	0.4	5
56	The beauty of Dutch: Bidding behavior in combinatorial first-price procurement auctions. European Journal of Operational Research, 2021, 291, 711-721.	3.5	5
57	Short-term performance management by priority-based queueing. Service Oriented Computing and Applications, 2010, 4, 169-180.	1.3	4
58	Optimization-based decision support for scenario analysis in electronic sourcing markets with volume discounts. Electronic Commerce Research and Applications, 2013, 12, 152-165.	2.5	4
59	Internationalization of Information Systems Research and Teaching. Business and Information Systems Engineering, 2015, 57, 225-228.	4.0	4
60	Ascending Combinatorial Auctions with Risk Averse Bidders. Group Decision and Negotiation, 2016, 25, 609-639.	2.0	4
61	A Matter of Equality: Linear Pricing in Combinatorial Exchanges. Information Systems Research, 2018, 29, 1024-1043.	2.2	4
62	Electronic Negotiations: Foundations, Systems and Experiments – Introduction to the Special Issue. Group Decision and Negotiation, 2003, 12, 85-88.	2.0	3
63	Service-oriented enterprise applications and Web service composition. Information Systems and E-Business Management, 2005, 3, 101-102.	2.2	3
64	Emerging Research Areas in Business and Information Systems Engineering. Business and Information Systems Engineering, 2014, 6, 1-2.	4.0	3
65	Core and pricing equilibria in combinatorial exchanges. Economics Letters, 2017, 157, 145-147.	0.9	3
66	How to Assign Scarce Resources Without Money: Designing Information Systems that are Efficient, Truthful, and (Pretty) Fair. Information Systems Research, 2021, 32, 335-355.	2.2	3
67	Efficiency, Auctioneer Revenue, and Bidding Behavior in the Combinatorial Clock Auction. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 38-39.	0.2	3
68	Taming the Communication and Computation Complexity of Combinatorial Auctions: The FUEL Bid Language. Management Science, 2023, 69, 2217-2238.	2.4	3
69	IT-Service-Management und IT-Automation. Business & Information Systems Engineering, 2011, 53, 1-2.	0.5	2
70	A Truthful Mechanism for the Generalized Assignment Problem. ACM Transactions on Economics and Computation, 2017, 5, 1-18.	0.7	2
71	Budget Constraints in Combinatorial Clock Auctions. , 0, , 318-337.		2
72	(Un)expected Bidder Behavior in Spectrum Auctions: About Inconsistent Bidding and its Impact on Efficiency in the Combinatorial Clock Auction. , 0, , 338-370.		2

#	ARTICLE	IF	CITATIONS
73	Strategyproof auction mechanisms for network procurement. OR Spectrum, 2020, 42, 965-994.	2.1	2
74	Pricing in Nonconvex Markets: How to Price Electricity in the Presence of Demand Response. Information Systems Research, 2023, 34, 652-675.	2.2	2
75	IT Service Management and Automation. Business and Information Systems Engineering, 2011, 3, 1-2.	4.0	1
76	Structural Changes in the BISE Editorial Board. Business and Information Systems Engineering, 2013, 5, 211-212.	4.0	1
77	Strukturelle Veränderungen im Editorial Board der WIRTSCHAFTSINFORMATIK/BISE. Business & Information Systems Engineering, 2013, 55, 203-204.	0.5	1
78	(Un)Expected Bidder Behavior in Spectrum Auctions: About Inconsistent Bidding and its Impact on Efficiency in the Combinatorial Clock Auction. SSRN Electronic Journal, 0, , .	0.4	1
79	Aktuelle Forschungsfelder der Wirtschaftsinformatik. Business & Information Systems Engineering, 2014, 56, 1-2.	0.5	1
80	BISE and the Engineering Sciences. Business and Information Systems Engineering, 2016, 58, 105-106.	4.0	1
81	Bidding Complexities in the Combinatorial Clock Auction. , 0, , 731-747.		1
82	Truthfulness in advertising? Approximation mechanisms for knapsack bidders. European Journal of Operational Research, 2018, 270, 775-783.	3.5	1
83	Computing Core-Stable Outcomes in Combinatorial Exchanges with Financially Constrained Bidders. , 2019, , .		1
84	Comments on: Shared resources in collaborative vehicle routing. Top, 2020, 28, 21-24.	1.1	1
85	Randomized Scheduling Mechanisms: Assigning Course Seats in a Fair and Efficient Way. Production and Operations Management, 2021, 30, 3540.	2.1	1
86	Core Pricing in Combinatorial Exchanges with Financially Constrained Buyers: Computational Hardness and Algorithmic Solutions. Operations Research, 0, , .	1.2	1
87	Strong substitutes: structural properties, and a new algorithm for competitive equilibrium prices. Mathematical Programming, 2024, 203, 611-643.	1.6	1
88	Title is missing!. Group Decision and Negotiation, 2003, 12, 265-267.	2.0	0
89	BISE " Call for Papers. Business and Information Systems Engineering, 2011, 3, 253-253.	4.0	0
90	BISE " Call for Papers Issue 1/2014. Business and Information Systems Engineering, 2012, 4, 297-304.	4.0	0

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91	Interview with Amit Basu on "The Information Systems Society of the INFORMS" Business and Information Systems Engineering, 2013, 5, 279-280.	4.0	0
92	Interview with Ritu Agarwal on "Information Systems " Research, Teaching, and Community Development" Business and Information Systems Engineering, 2013, 5, 103-105.	4.0	0
93	Spectrum Auction Design: Simple Auctions for Complex Sales. SSRN Electronic Journal, 2013, , .	0.4	0
94	Language Change. Business and Information Systems Engineering, 2014, 6, 317-317.	4.0	0
95	Heterogenität und Qualität in der Wirtschaftsinformatikforschung. Business & Information Systems Engineering, 2014, 56, 341-344.	0.5	0
96	Reflektionen zum Stand der gestaltungsorientierten Wirtschaftsinformatik. Business & Information Systems Engineering, 2014, 56, 79-81.	0.5	0
97	A Practical Guide to the Combinatorial Clock Auction. , 0, , 170-186.		0
98	Ascending Combinatorial Auctions with Risk Averse Bidders. , 0, , 264-293.		0
99	Coalition-based Pricing in Ascending Combinatorial Auctions. , 0, , 493-528.		0
100	Do Core-Selecting Combinatorial Clock Auctions Lead to High Efficiency? An Experimental Analysis of Spectrum Auction Designs. , 0, , 640-671.		0
101	Trans-National Joint Research Projects. Business and Information Systems Engineering, 2017, 59, 205-206.	4.0	0
102	Why the Community Should Care About Technology-Centric Journal Rankings. Business and Information Systems Engineering, 2018, 60, 91-93.	4.0	0
103	Designing Environmental Markets for Trading Catch Shares. Interfaces, 2019, 49, 324-337.	1.6	0
104	A simple and fast algorithm for convex decomposition in relax-and-round mechanisms. Computers and Operations Research, 2019, 103, 277-287.	2.4	0
105	Core-Pricing in Large Multi-Object Auctions: A Market Design for Selling TV-Ads. SSRN Electronic Journal, 0, , .	0.4	0
106	Algorithmic Economics und Operations Research. , 2017, , 129-139.		0