Sascha Kurz

List of Publications by Year
in descending order

110 papers	856 citations	623734 14 h-index	677142 22 g-index
113 all docs	113 docs citations	113 times ranked	306 citing authors

#	Article	IF	Citations
1	Construction of Large Constant Dimension Codes with a Prescribed Minimum Distance. Lecture Notes in Computer Science, 2008, , 31-42.	1.3	74
2	On minimum sum representations for weighted voting games. Annals of Operations Research, 2012, 196, 361-369.	4.1	47
3	On the inverse power index problem. Optimization, 2012, 61, 989-1011.	1.7	45
4	Minimal proper non-IRUP instances of the one-dimensional cutting stock problem. Discrete Applied Mathematics, 2015, 187, 120-129.	0.9	42
5	On the Hegselmann–Krause conjecture in opinion dynamics. Journal of Difference Equations and Applications, 2011, 17, 859-876.	1.1	36
6	On Dedekind's problem for complete simple games. International Journal of Game Theory, 2013, 42, 411-437.	0.5	27
7	On the Democratic Weights of Nations. Journal of Political Economy, 2017, 125, 1599-1634.	4.5	26
8	There Are Integral Heptagons, no Three Points on a Line, no Four on a Circle. Discrete and Computational Geometry, 2008, 39, 786-790.	0.6	25
9	Heuristic and exact solutions to the inverse power index problem for small voting bodies. Annals of Operations Research, 2014, 215, 137-163.	4.1	24
10	Coset Construction for Subspace Codes. IEEE Transactions on Information Theory, 2017, 63, 7651-7660.	2.4	22
11	The nucleolus of large majority games. Economics Letters, 2014, 123, 139-143.	1.9	20
12	On minimum integer representations of weighted games. Mathematical Social Sciences, 2014, 67, 9-22.	0.5	18
13	Dimension of the Lisbon voting rules in the EU Council: a challenge and new world record. Optimization Letters, 2016, 10, 1245-1256.	1.6	18
14	Improved upper bounds for partial spreads. Designs, Codes, and Cryptography, 2017, 85, 97-106.	1.6	18
15	Asymptotic Bounds for the Sizes of Constant Dimension Codes and an Improved Lower Bound. Lecture Notes in Computer Science, 2017, , 163-191.	1.3	18
16	Partial Spreads and Vector Space Partitions. Signals and Communication Technology, 2018, , 131-170.	0.5	17
17	On α -roughly weighted games. International Journal of Game Theory, 2014, 43, 659-692.	0.5	14
18	On the characterization of weighted simple games. Theory and Decision, 2017, 83, 469-498.	1.0	14

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19	Optimal control of the freezing time in the Hegselmannâ€"Krause dynamics. Journal of Difference Equations and Applications, 2015, 21, 633-648.	1.1	13
20	The golden number and Fibonacci sequences in the design of voting structures. European Journal of Operational Research, 2013, 226, 246-257.	5.7	12
21	The cost of getting local monotonicity. European Journal of Operational Research, 2016, 251, 600-612.	5.7	12
22	Classifying optimal binary subspace codes of length 8, constant dimension 4 and minimum distance 6. Designs, Codes, and Cryptography, 2019, 87, 375-391.	1.6	12
23	Weighted committee games. European Journal of Operational Research, 2020, 282, 972-979.	5.7	12
24	Measuring Voting Power in Convex Policy Spaces. Economies, 2014, 2, 45-77.	2.5	11
25	On the Lengths of Divisible Codes. IEEE Transactions on Information Theory, 2020, 66, 4051-4060.	2.4	11
26	Optimal Opinion Control: The Campaign Problem. SSRN Electronic Journal, 0, , .	0.4	10
27	The order of the automorphism group of a binary $${\varvec{q}}$$ q -analog of the Fano plane is at most two. Designs, Codes, and Cryptography, 2018, 86, 239-250.	1.6	10
28	Combining subspace codes. Advances in Mathematics of Communications, 2023, 17, 536-550.	0.7	10
29	Computer Classification of Linear Codes. IEEE Transactions on Information Theory, 2021, 67, 7807-7814.	2.4	10
30	Maximal integral point sets in affine planes over finite fields. Discrete Mathematics, 2009, 309, 4564-4575.	0.7	9
31	Enumeration of weighted games with minimum and an analysis of voting power for bipartite complete games with minimum. Annals of Operations Research, 2014, 222, 317-339.	4.1	9
32	The inverse problem for power distributions in committees. Social Choice and Welfare, 2016, 47, 65-88.	0.8	9
33	Influence in weighted committees. European Economic Review, 2021, 132, 103634.	2.3	8
34	Computing the Power Distribution in the IMF. SSRN Electronic Journal, 2016, , .	0.4	7
35	On the Democratic Weights of Nations. SSRN Electronic Journal, 0, , .	0.4	7
36	Constructions and bounds for mixed-dimension subspace codes. Advances in Mathematics of Communications, 2016, 10, 649-682.	0.7	7

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37	Bounds for flag codes. Designs, Codes, and Cryptography, 2021, 89, 2759-2785.	1.6	7
38	A Geometric View of the Service Rates of Codes Problem and its Application to the Service Rate of the First Order Reed-Muller Codes. , 2020, , .		6
39	Subspace packings: constructions and bounds. Designs, Codes, and Cryptography, 2020, 88, 1781-1810.	1.6	6
40	The Inverse Problem for Power Distributions in Committees. SSRN Electronic Journal, 0, , .	0.4	6
41	Mostly Sunny: A Forecast of Tomorrow's Power Index Research. SSRN Electronic Journal, 0, , .	0.4	6
42	IMPORTANCE IN SYSTEMS WITH INTERVAL DECISIONS. International Journal of Modeling, Simulation, and Scientific Computing, 2018, 21, 1850024.	1.4	5
43	The roll call interpretation of the Shapley value. Economics Letters, 2018, 173, 108-112.	1.9	5
44	Integral point sets in higher dimensional affine spaces over finite fields. Journal of Combinatorial Theory - Series A, 2009, 116, 1120-1139.	0.8	4
45	Regular Matchstick Graphs. American Mathematical Monthly, 2011, 118, 264.	0.3	4
46	Classification of large partial plane spreads in $${\mathrm{PG}}(6,2)$$ PG (6 , 2) and related combinatorial objects. Journal of Geometry, 2019, 110, 1.	0.4	4
47	Bounds for the Nakamura number. Social Choice and Welfare, 2019, 52, 607-634.	0.8	4
48	The Lengths of Projective Triply-Even Binary Codes. IEEE Transactions on Information Theory, 2020, 66, 2713-2716.	2.4	4
49	Subspaces intersecting in at most a point. Designs, Codes, and Cryptography, 2020, 88, 595-599.	1.6	4
50	Integral point sets over. Electronic Notes in Discrete Mathematics, 2006, 27, 65-66.	0.4	3
51	On the lot-type design problem. Optimization Methods and Software, 2010, 25, 217-227.	2.4	3
52	The Top-Dog Index: a new measurement for the demand consistency of the size distribution in pre-pack orders for a fashion discounter with many small branches. Annals of Operations Research, 2015, 229, 541-563.	4.1	3
53	The prediction value. Social Choice and Welfare, 2017, 48, 433-460.	0.8	3
54	Representation-compatible power indices. Annals of Operations Research, 2018, 264, 235-265.	4.1	3

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55	Dimension of the Lisbon Voting Rules in the EU Council: A Challenge and New World Record. SSRN Electronic Journal, 0, , .	0.4	3
56	The integrated size and price optimization problem. Numerical Algebra, Control and Optimization, 2012, 2, 669-693.	1.6	3
57	Johnson Type Bounds for Mixed Dimension Subspace Codes. Electronic Journal of Combinatorics, 2019, 26, .	0.4	3
58	The interplay of different metrics for the construction of constant dimension codes. Advances in Mathematics of Communications, 2022, .	0.7	3
59	Three-Weight Codes over Rings and Strongly Walk Regular Graphs. Graphs and Combinatorics, 2022, 38, 1.	0.4	3
60	Integral point sets over <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si40.gif" display="inline" overflow="scroll"><mml:msubsup><mml:mrow><mml:mi mathvariant="double-struck">Z</mml:mi></mml:mrow><mml:mrow><mml:mi>n</mml:mi></mml:mrow><mml:mrow><mml:mi>m</mml:mi>. Discrete Applied Mathematics, 2009, 157, 2105-2117.	0.9	2
61	Maximal integral point sets over ℤ². International Journal of Computer Mathematics, 2010, 87, 2653-2676.	1.8	2
62	Minimal Proper Non-IRUP Instances of the One-Dimensional Cutting Stock Problem. SSRN Electronic Journal, 2014, , .	0.4	2
63	How long does it take to consensus in the Hegselmann-Krause model?. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 803-804.	0.2	2
64	Dimension and codimension of simple games. Electronic Notes in Discrete Mathematics, 2016, 55, 147-150.	0.4	2
65	Fair representation and a linear Shapley rule. Games and Economic Behavior, 2018, 108, 152-161.	0.8	2
66	A note on limit results for the Penrose–Banzhaf index. Theory and Decision, 2020, 88, 191-203.	1.0	2
67	Generalized LMRD Code Bounds for Constant Dimension Codes. IEEE Communications Letters, 2020, 24, 2100-2103.	4.1	2
68	Axiomatizations for the Shapley–Shubik power index for games with several levels of approval in the input and output. Social Choice and Welfare, 2021, 56, 569-594.	0.8	2
69	PIR Codes with Short Block Length. Designs, Codes, and Cryptography, 2021, 89, 559-587.	1.6	2
70	A note on the growth of the dimension in complete simple games. Mathematical Social Sciences, 2021, 110, 14-18.	0.5	2
71	Generalized Roll-Call Model for the Shapley-Shubik Index. SSRN Electronic Journal, 0, , .	0.4	2
72	Bounds for the Diameter of the Weight Polytope. SSRN Electronic Journal, 0, , .	0.4	2

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73	A Note on Limit Results for the Penrose-Banzhaf Index. SSRN Electronic Journal, 0, , .	0.4	2
74	Simple Games Versus Weighted Voting Games: Bounding the Critical Threshold Value. SSRN Electronic Journal, 0, , .	0.4	2
75	A Generalization of the Cylinder Conjecture for Divisible Codes. IEEE Transactions on Information Theory, 2022, 68, 2281-2289.	2.4	2
76	Heden's bound on the tail of a vector space partition. Discrete Mathematics, 2018, 341, 3447-3452.	0.7	1
77	The power of the largest player. Economics Letters, 2018, 168, 123-126.	1.9	1
78	2. q-analogs of group divisible designs. , 2019, , 21-38.		1
79	Simple Games Versus Weighted Voting Games. Lecture Notes in Computer Science, 2018, , 69-81.	1.3	1
80	Optimal Control of the Convergence Time in the Hegselmann-Krause Dynamics. SSRN Electronic Journal, 0, , .	0.4	1
81	Characterization of Threshold Functions: State of the Art, Some New Contributions and Open Problems. SSRN Electronic Journal, 0, , .	0.4	1
82	An Axiomatization of the Shapley-Shubik Index for Interval Decisions. SSRN Electronic Journal, 0, , .	0.4	1
83	Binary subspace codes in small ambient spaces. Advances in Mathematics of Communications, 2018, 12, 817-839.	0.7	1
84	The Nucleolus of Large Majority Games. SSRN Electronic Journal, 0, , .	0.4	1
85	Measuring Voting Power in Convex Policy Spaces. SSRN Electronic Journal, 0, , .	0.4	1
86	Approximating Power by Weights. SSRN Electronic Journal, 0, , .	0.4	1
87	Which Criteria Qualify Power Indices for Applications? A Comment to 'The Story of the Poor Public Good Index'. SSRN Electronic Journal, 0, , .	0.4	1
88	Simple Games Versus Weighted Voting Games. SSRN Electronic Journal, 0, , .	0.4	1
89	Classification of $\mathbf{(3 !\mod 5)}$ arcs in $\mathbf{\operatorname{PG}(3,5)}$. Advances in Mathematics of Communications, 2023, 17, 172-206.	0.7	1
90	A bijection between the <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	0.8	0

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91	Open Sets Avoiding Integral Distances. Discrete and Computational Geometry, 2013, 50, 99-123.	0.6	0
92	Ready for the Design of Voting Rules?. SSRN Electronic Journal, 2014, , .	0.4	0
93	The Power of the Largest Player. SSRN Electronic Journal, 0, , .	0.4	0
94	Simple games versus weighted voting games: bounding the critical threshold value. Social Choice and Welfare, 2020, 54, 609-621.	0.8	0
95	No Projective 16-Divisible Binary Linear Code of Length 131 Exists. IEEE Communications Letters, 2021, 25, 38-40.	4.1	0
96	Are Weighted Games Sufficiently Good for Binary Voting?. Homo Oeconomicus, 0, , 1.	0.2	0
97	On the maximum number of minimal codewords. Discrete Mathematics, 2021, 344, 112510.	0.7	0
98	An exact column-generation approach for the lot-type design problem. Top, 2021, 29, 741-780.	1.6	0
99	The Cost of Getting Local Monotonicity. SSRN Electronic Journal, 0, , .	0.4	0
100	Classes of Complete Simple Games that are All Weighted. SSRN Electronic Journal, 0, , .	0.4	0
101	Enumeration of Weighted Games with Minimum and an Analysis of Voting Power for Bipartite Complete Games with Minimum. SSRN Electronic Journal, 0, , .	0.4	0
102	The Golden Number and Fibonacci Sequences in the Design of Voting Structures. SSRN Electronic Journal, 0, , .	0.4	0
103	The Average Representation - A Cornucopia of Power Indices?. SSRN Electronic Journal, 0, , .	0.4	0
104	How Long Does it Take to Consensus in the Hegselmann-Krause Model?. SSRN Electronic Journal, 0, , .	0.4	0
105	Representation-Compatible Power Indices. SSRN Electronic Journal, 0, , .	0.4	0
106	Fair Representation and a Linear Shapley Rule. SSRN Electronic Journal, 0, , .	0.4	0
107	Weighted Committee Games. SSRN Electronic Journal, 0, , .	0.4	0
108	Bounds for the Nakamura Number. SSRN Electronic Journal, 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
109	Influence in Systems with Convex Decisions. SSRN Electronic Journal, 0, , .	0.4	0
110	On the number of minimal codewords in codes generated by the adjacency matrix of a graph. Discrete Applied Mathematics, 2022, 309, 221-228.	0.9	0