

Michel Grabisch

List of Publications by Year in descending order

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138
papers

7,255
citations

136950

32
h-index

69250

77
g-index

144
all docs

144
docs citations

144
times ranked

2117
citing authors

#	ARTICLE	IF	CITATIONS
1	The application of fuzzy integrals in multicriteria decision making. <i>European Journal of Operational Research</i> , 1996, 89, 445-456.	5.7	846
2	k-order additive discrete fuzzy measures and their representation. <i>Fuzzy Sets and Systems</i> , 1997, 92, 167-189.	2.7	755
3	Fuzzy integral in multicriteria decision making. <i>Fuzzy Sets and Systems</i> , 1995, 69, 279-298.	2.7	583
4	A decade of application of the Choquet and Sugeno integrals in multi-criteria decision aid. <i>Annals of Operations Research</i> , 2010, 175, 247-286.	4.1	354
5	A review of methods for capacity identification in Choquet integral based multi-attribute utility theory. <i>European Journal of Operational Research</i> , 2008, 186, 766-785.	5.7	333
6	Classification by fuzzy integral: Performance and tests. <i>Fuzzy Sets and Systems</i> , 1994, 65, 255-271.	2.7	221
7	The representation of importance and interaction of features by fuzzy measures. <i>Pattern Recognition Letters</i> , 1996, 17, 567-575.	4.2	171
8	An axiomatic approach to the concept of interaction among players in cooperative games. <i>International Journal of Game Theory</i> , 1999, 28, 547-565.	0.5	170
9	A decade of application of the Choquet and Sugeno integrals in multi-criteria decision aid. <i>4or</i> , 2008, 6, 1-44.	1.6	159
10	Equivalent Representations of Set Functions. <i>Mathematics of Operations Research</i> , 2000, 25, 157-178.	1.3	142
11	Bi-capacities: definition, Möbius transform and interaction. <i>Fuzzy Sets and Systems</i> , 2005, 151, 211-236.	2.7	141
12	Alternative Representations of Discrete Fuzzy Measures for Decision Making. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 1997, 05, 587-607.	1.9	137
13	Set Functions, Games and Capacities in Decision Making. <i>Theory and Decision Library Series C, Game Theory, Mathematical Programming and Operations Research</i> , 2016, .	0.2	124
14	Bi-capacities: the Choquet integral. <i>Fuzzy Sets and Systems</i> , 2005, 151, 237-259.	2.7	112
15	Evaluation of driver discomfort during long-duration car driving. <i>Applied Ergonomics</i> , 2003, 34, 249-255.	3.1	109
16	Fuzzy measure of fuzzy events defined by fuzzy integrals. <i>Fuzzy Sets and Systems</i> , 1992, 50, 293-313.	2.7	105
17	Bipolar and bivariate models in multicriteria decision analysis: Descriptive and constructive approaches. <i>International Journal of Intelligent Systems</i> , 2008, 23, 930-969.	5.7	94
18	p-SYMMETRIC FUZZY MEASURES. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2002, 10, 105-123.	1.9	91

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19	The symmetric Sugeno integral. Fuzzy Sets and Systems, 2003, 139, 473-490.	2.7	74
20	On the extension of pseudo-Boolean functions for the aggregation of interacting criteria. European Journal of Operational Research, 2003, 148, 28-47.	5.7	74
21	The Möbius transform on symmetric ordered structures and its application to capacities on finite sets. Discrete Mathematics, 2004, 287, 17-34.	0.7	69
22	Fuzzy Measures and Integrals in MCDA. Profiles in Operations Research, 2005, , 563-604.	0.4	62
23	Using a multi-criteria decision aid methodology to implement sustainable development principles within an organization. European Journal of Operational Research, 2013, 224, 603-613.	5.7	60
24	Generalized Choquet-like aggregation functions for handling bipolar scales. European Journal of Operational Research, 2006, 172, 931-955.	5.7	59
25	Subjective Evaluation of Discomfort in Sitting Positions. Fuzzy Optimization and Decision Making, 2002, 1, 287-312.	5.5	54
26	A representation of preferences by the Choquet integral with respect to a 2-additive capacity. Theory and Decision, 2011, 71, 297-324.	1.0	51
27	OPTIMIZATION ISSUES FOR FUZZY MEASURES. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 1999, 07, 545-560.	1.9	50
28	A model of influence in a social network. Theory and Decision, 2010, 69, 69-96.	1.0	48
29	A characterization of the 2-additive Choquet integral through cardinal information. Fuzzy Sets and Systems, 2011, 184, 84-105.	2.7	47
30	Modelling data by the Choquet integral. Studies in Fuzziness and Soft Computing, 2003, , 135-148.	0.8	45
31	Games on lattices, multichoice games and the shapley value: a new approach. Mathematical Methods of Operations Research, 2007, 65, 153-167.	1.0	44
32	Social Networks: Prestige, Centrality, and Influence. Lecture Notes in Computer Science, 2011, , 22-39.	1.3	43
33	Strategic Influence in Social Networks. Mathematics of Operations Research, 2018, 43, 29-50.	1.3	42
34	Fuzzy Measures and Integrals in MCDA. Profiles in Operations Research, 2016, , 553-603.	0.4	38
35	The symmetric and asymmetric Choquet integrals on finite spaces for decision making. Statistical Papers, 2002, 43, 37-52.	1.2	31
36	Interaction transform of set functions over a finite set. Information Sciences, 1999, 121, 149-170.	6.9	28

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37	An Empirical Study of Statistical Properties of the Choquet and Sugeno Integrals. IEEE Transactions on Fuzzy Systems, 2008, 16, 839-850.	9.8	27
38	Belief functions on lattices. International Journal of Intelligent Systems, 2009, 24, 76-95.	5.7	27
39	A coalition formation value for games in partition function form. European Journal of Operational Research, 2012, 221, 175-185.	5.7	26
40	A new approach to the core and Weber set of multichoice games. Mathematical Methods of Operations Research, 2007, 66, 491-512.	1.0	25
41	Using the transferable belief model and a qualitative possibility theory approach on an illustrative example: The assessment of the value of a candidate. International Journal of Intelligent Systems, 2001, 16, 1245-1272.	5.7	24
42	A model of influence with an ordered set of possible actions. Theory and Decision, 2010, 69, 635-656.	1.0	24
43	Games on fuzzy communication structures with Choquet players. European Journal of Operational Research, 2010, 207, 836-847.	5.7	24
44	THE QUEST FOR RINGS ON BIPOLAR SCALES. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2004, 12, 499-512.	1.9	23
45	Values on regular games under Kirchhoff's laws. Mathematical Social Sciences, 2009, 58, 322-340.	0.5	23
46	A model of influence based on aggregation functions. Mathematical Social Sciences, 2013, 66, 316-330.	0.5	23
47	Measuring influence in command games. Social Choice and Welfare, 2009, 33, 177-209.	0.8	22
48	Influence functions, followers and command games. Games and Economic Behavior, 2011, 72, 123-138.	0.8	22
49	The core of games on ordered structures and graphs. Annals of Operations Research, 2013, 204, 33-64.	4.1	22
50	Measure and integral with purely ordinal scales. Journal of Mathematical Psychology, 2004, 48, 15-27.	1.8	20
51	Using multiple reference levels in Multi-Criteria Decision aid: The Generalized-Additive Independence model and the Choquet integral approaches. European Journal of Operational Research, 2018, 267, 598-611.	5.7	20
52	A Survey on Nonstrategic Models of Opinion Dynamics. Games, 2020, 11, 65.	0.6	20
53	The core of games on ordered structures and graphs. 4or, 2009, 7, 207-238.	1.6	18
54	The lattice of embedded subsets. Discrete Applied Mathematics, 2010, 158, 479-488.	0.9	18

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55	HOW TO IMPROVE ACTS: AN ALTERNATIVE REPRESENTATION OF THE IMPORTANCE OF CRITERIA IN MCDM. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2001, 09, 145-157.	1.9	17
56	A discrete Choquet integral for ordered systems. Fuzzy Sets and Systems, 2011, 168, 3-17.	2.7	16
57	Games on concept lattices: Shapley value and core. Discrete Applied Mathematics, 2016, 198, 29-47.	0.9	16
58	The multilinear model in multicriteria decision making: The case of 2-additive capacities and contributions to parameter identification. European Journal of Operational Research, 2020, 282, 945-956.	5.7	16
59	A value for bi-cooperative games. International Journal of Game Theory, 2008, 37, 409-438.	0.5	14
60	Representation of preferences over a finite scale by a mean operator. Mathematical Social Sciences, 2006, 52, 131-151.	0.5	13
61	On the vertices of the k -additive core. Discrete Mathematics, 2008, 308, 5204-5217.	0.7	13
62	Bipolarization of posets and natural interpolation. Journal of Mathematical Analysis and Applications, 2008, 343, 1080-1097.	1.0	13
63	An axiomatization of entropy of capacities on set systems. European Journal of Operational Research, 2008, 190, 526-538.	5.7	12
64	The bounded core for games with precedence constraints. Annals of Operations Research, 2012, 201, 251-264.	4.1	12
65	Exact bounds of the Möbius inverse of monotone set functions. Discrete Applied Mathematics, 2015, 186, 7-12.	0.9	12
66	The restricted core of games on distributive lattices: how to share benefits in a hierarchy. Mathematical Methods of Operations Research, 2011, 73, 189-208.	1.0	11
67	A model of anonymous influence with anti-conformist agents. Journal of Economic Dynamics and Control, 2019, 109, 103773.	1.6	11
68	CAPACITIES AND GAMES ON LATTICES: A SURVEY OF RESULTS. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2006, 14, 371-392.	1.9	10
69	k -Balanced games and capacities. European Journal of Operational Research, 2010, 200, 465-472.	5.7	10
70	Ensuring the boundedness of the core of games with restricted cooperation. Annals of Operations Research, 2011, 191, 137-154.	4.1	10
71	Anonymous social influence. Games and Economic Behavior, 2013, 82, 621-635.	0.8	10
72	Values for Markovian coalition processes. Economic Theory, 2012, 51, 505-538.	0.9	9

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73	A brand new cheating attempt: a case of usurped identity. <i>4or</i> , 2016, 14, 333-336.	1.6	9
74	Anti-conformism in the Threshold Model of Collective Behavior. <i>Dynamic Games and Applications</i> , 2020, 10, 444-477.	1.9	9
75	Set Functions over Finite Sets: Transformations and Integrals. , 2002, , 1381-1401.		8
76	Derivative of functions over lattices as a basis for the notion of interaction between attributes. <i>Annals of Mathematics and Artificial Intelligence</i> , 2007, 49, 151-170.	1.3	8
77	The interaction transform for functions on lattices. <i>Discrete Mathematics</i> , 2009, 309, 4037-4048.	0.7	8
78	On the restricted cores and the bounded core of games on distributive lattices. <i>European Journal of Operational Research</i> , 2014, 235, 709-717.	5.7	7
79	Fuzzy Measures and Integrals: Recent Developments. <i>Studies in Fuzziness and Soft Computing</i> , 2015, , 125-151.	0.8	7
80	Characterizations of solutions for games with precedence constraints. <i>International Journal of Game Theory</i> , 2016, 45, 269-290.	0.5	7
81	Aggregation on Bipolar Scales. <i>Lecture Notes in Computer Science</i> , 2006, , 355-371.	1.3	7
82	Preserving coalitional rationality for non-balanced games. <i>International Journal of Game Theory</i> , 2015, 44, 733-760.	0.5	6
83	How to score alternatives when criteria are scored on an ordinal scale. <i>Journal of Multi-Criteria Decision Analysis</i> , 2008, 15, 31-44.	1.9	5
84	Different Approaches to Influence Based on Social Networks and Simple Games. <i>Theory and Decision Library Series C, Game Theory, Mathematical Programming and Operations Research</i> , 2010, , 185-209.	0.2	5
85	Measuring Influence Among Players with an Ordered Set of Possible Actions. <i>SSRN Electronic Journal</i> , 0, , .	0.4	5
86	A model of influence with a continuum of actions. <i>Journal of Mathematical Economics</i> , 2011, 47, 576-587.	0.8	4
87	Autonomous coalitions. <i>Annals of Operations Research</i> , 2015, 235, 301-317.	4.1	4
88	Bases and linear transforms of TU-games and cooperation systems. <i>International Journal of Game Theory</i> , 2016, 45, 875-892.	0.5	4
89	Game Theoretic Interaction and Decision: A Quantum Analysis. <i>Games</i> , 2017, 8, 48.	0.6	4
90	Sweet sixteen. <i>4or</i> , 2018, 16, 1-13.	1.6	4

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91	The cone of supermodular games on finite distributive lattices. <i>Discrete Applied Mathematics</i> , 2019, 260, 144-154.	0.9	4
92	New Directions in Ordinal Evaluation: Sugeno Integrals and Beyond. <i>Multiple Criteria Decision Making</i> , 2019, , 177-228.	0.8	4
93	On the set of imputations induced by the k-additive core. <i>European Journal of Operational Research</i> , 2011, 214, 697-702.	5.7	3
94	An algorithm for finding the vertices of the $\langle \text{mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co$	0.9	3
95	On the Poset of Computation Rules for Nonassociative Calculus. <i>Order</i> , 2013, 30, 269-288.	0.5	3
96	A note on values for Markovian coalition processes. <i>Economic Theory Bulletin</i> , 2013, 1, 111-122.	0.5	3
97	An allocation rule for dynamic random network formation processes. <i>Economic Theory</i> , 2015, 60, 283-313.	0.9	3
98	Multicoalitional solutions. <i>Journal of Mathematical Economics</i> , 2016, 64, 1-10.	0.8	3
99	A note on the Sobol' indices and interactive criteria. <i>Fuzzy Sets and Systems</i> , 2017, 315, 99-108.	2.7	3
100	Monotone decomposition of 2-additive Generalized Additive Independence models. <i>Mathematical Social Sciences</i> , 2018, 92, 64-73.	0.5	3
101	Surveys in operations research. <i>Annals of Operations Research</i> , 2018, 271, 3-10.	4.1	3
102	On importance indices in multicriteria decision making. <i>European Journal of Operational Research</i> , 2019, 277, 269-283.	5.7	3
103	k-additive upper approximation of TU-games. <i>Operations Research Letters</i> , 2020, 48, 487-492.	0.7	3
104	An Axiomatisation of the Banzhaf Value and Interaction Index for Multichoice Games. <i>Lecture Notes in Computer Science</i> , 2018, , 143-155.	1.3	3
105	Axiomatization of an Importance Index for Generalized Additive Independence Models. <i>Lecture Notes in Computer Science</i> , 2017, , 340-350.	1.3	3
106	A Model of Influence with a Continuum of Actions. <i>SSRN Electronic Journal</i> , 0, , .	0.4	3
107	Threshold model with anticonformity under random sequential updating. <i>Physical Review E</i> , 2022, 105, .	2.1	3
108	Interaction transform for bi-set functions over a finite set. <i>Information Sciences</i> , 2006, 176, 2279-2303.	6.9	2

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109	A study of the dynamic of influence through differential equations. <i>RAIRO - Operations Research</i> , 2012, 46, 83-106.	1.8	2
110	A concise axiomatization of a Shapley-type value for stochastic coalition processes. <i>Economic Theory Bulletin</i> , 2013, 1, 189-199.	0.5	2
111	Remarkable polyhedra related to set functions, games and capacities. <i>Top</i> , 2016, 24, 301-326.	1.6	2
112	On integer-valued means and the symmetric maximum. <i>Aequationes Mathematicae</i> , 2017, 91, 353-371.	0.8	2
113	On a class of vertices of the core. <i>Games and Economic Behavior</i> , 2018, 108, 541-557.	0.8	2
114	Interpretation of Multicriteria Decision Making Models with Interacting Criteria. <i>Multiple Criteria Decision Making</i> , 2019, , 151-176.	0.8	2
115	Interaction indices for multichoice games. <i>Fuzzy Sets and Systems</i> , 2020, 383, 1-26.	2.7	2
116	An Alternative View of Importance Indices for Multichoice Games. <i>Lecture Notes in Computer Science</i> , 2017, , 81-92.	1.3	2
117	Anonymous Social Influence. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
118	Anti-Conformism in the threshold Model of Collective Behavior. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
119	4OR comes of age. <i>4or</i> , 2021, 19, 1-13.	1.6	1
120	Characterization of TU games with stable cores by nested balancedness. <i>Mathematical Programming</i> , 2024, 203, 801-826.	2.4	1
121	On the convex hull of k -additive 0-1 capacities and its application to model identification in decision making. <i>Fuzzy Sets and Systems</i> , 2022, 451, 228-252.	2.7	1
122	Diffusion in large networks. <i>Journal of Economic Dynamics and Control</i> , 2022, 139, 104439.	1.6	1
123	Comments on: Transversality of the Shapley value. <i>Top</i> , 2008, 16, 44-47.	1.6	0
124	A Reduction of the Complexity of Inconsistencies Test in the MACBETH 2-Additive Methodology. <i>Lecture Notes in Computer Science</i> , 2011, , 178-189.	1.3	0
125	Editorial: Contributions to game theory and social choice. <i>Annals of Operations Research</i> , 2015, 225, 1-2.	4.1	0
126	Lattices in Social Networks with Influence. <i>International Game Theory Review</i> , 2015, 17, 1540004.	0.5	0

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127	Rejoinder on: Remarkable polyhedra related to set functions, games and capacities. <i>Top</i> , 2016, 24, 335-337.	1.6	0
128	Bases and Transforms of Set Functions. <i>Studies in Fuzziness and Soft Computing</i> , 2016, , 215-231.	0.8	0
129	Preface: SING 14. <i>Annals of Operations Research</i> , 2021, 301, 1-4.	4.1	0
130	A Model of Influence with a Continuum of Actions. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
131	The Positive Core for Games with Precedence Constraints. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
132	A Comparison of the GAI Model and the Choquet Integral w.r.t. a k -ary Capacity. <i>Lecture Notes in Computer Science</i> , 2015, , 54-65.	1.3	0
133	On a Class of Vertices of the Core. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
134	The Core for Games with Cooperation Structure. <i>Lecture Notes in Computer Science</i> , 2016, , 172-188.	1.3	0
135	Finding the Set of k -additive Dominating Measures Viewed as a Flow Problem. <i>Communications in Computer and Information Science</i> , 2016, , 11-22.	0.5	0
136	An Unsupervised Capacity Identification Approach Based on Sobol' Indices. <i>Lecture Notes in Computer Science</i> , 2020, , 66-77.	1.3	0
137	Well-formed decompositions of generalized additive independence models. <i>Annals of Operations Research</i> , 0, , 1.	4.1	0
138	Sixty-one surveys in operations research. <i>Annals of Operations Research</i> , 0, , .	4.1	0