Christophe Labreuche

List of Publications by Year
in descending order

54	1,471	471371 17	330025 37
papers	citations	h-index	g-index

57	57	57	627
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A decade of application of the Choquet and Sugeno integrals in multi-criteria decision aid. Annals of Operations Research, 2010, 175, 247-286.	2.6	354
2	A decade of application of the Choquet and Sugeno integrals in multi-criteria decision aid. 4or, 2008, 6, 1-44.	1.0	159
3	Bi-capacitiesâ€”I: definition, MÃ¶bius transform and interaction. Fuzzy Sets and Systems, 2005, 151, 211-236.	1.6	141
4	Bi-capacitiesâ€”II: the Choquet integral. Fuzzy Sets and Systems, 2005, 151, 237-259.	1.6	112
5	On the extension of pseudo-Boolean functions for the aggregation of interacting criteria. European Journal of Operational Research, 2003, 148, 28-47.	3.5	74
6	Fuzzy Measures and Integrals in MCDA. Profiles in Operations Research, 2005, , 563-604.	0.3	62
7	Generalized Choquet-like aggregation functions for handling bipolar scales. European Journal of Operational Research, 2006, 172, 931-955.	3.5	59
8	A representation of preferences by the Choquet integral with respect to a 2-additive capacity. Theory and Decision, 2011, 71, 297-324.	0.5	51
9	A characterization of the 2-additive Choquet integral through cardinal information. Fuzzy Sets and Systems, 2011, 184, 84-105.	1.6	47
10	A general framework for explaining the results of a multi-attribute preference model. Artificial Intelligence, 2011, 175, 1410-1448.	3.9	45
11	Fuzzy Measures and Integrals in MCDA. Profiles in Operations Research, 2016, , 553-603.	0.3	38
12	The symmetric and asymmetric Choquet integrals on finite spaces for decision making. Statistical Papers, 2002, 43, 37-52.	0.7	31
13	Multi-criteria improvement of complex systems. Information Sciences, 2015, 291, 61-84.	4.0	22
14	Integration and propagation of a multi-criteria decision making model in constraint programming. Journal of Heuristics, 2006, 12, 329-346.	1.1	20
15	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.	3.5	20
16	The representation of conditional relative importance between criteria. Annals of Operations Research, 2007, 154, 93-122.	2.6	18
17	Explaining Multi-Criteria Decision Aiding Models with an Extended Shapley Value. , 2018, , .		18
18	HOW TO IMPROVE ACTS: AN ALTERNATIVE REPRESENTATION OF THE IMPORTANCE OF CRITERIA IN MCDM. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2001, 09, 145-157.	0.9	17

#	Article	IF	Citations
19	Construction of a Choquet integral and the value functions without any commensurateness assumption in multi-criteria decision making. , 2011, , .		15
20	Stability of the Recovery of Surface Impedances in Inverse Scattering. Journal of Mathematical Analysis and Applications, 1999, 231, 161-176.	0.5	14
21	A value for bi-cooperative games. International Journal of Game Theory, 2008, 37, 409-438.	0.5	14
22	Bipolarization of posets and natural interpolation. Journal of Mathematical Analysis and Applications, 2008, 343, 1080-1097.	0.5	13
23	A convergence theorem for the fast multipole method for 2 dimensional scattering problems. Mathematics of Computation, 1998, 67, 553-592.	1.1	11
24	MCSâ€"A new algorithm for multicriteria optimisation in constraint programming. Annals of Operations Research, 2006, 147, 143-174.	2.6	11
25	Partially Bipolar Choquet Integrals. IEEE Transactions on Fuzzy Systems, 2009, 17, 839-850.	6.5	11
26	Extension of the MACBETH approach to elicit an ordered weighted average operator. EURO Journal on Decision Processes, 2015, 3, 65-105.	1.8	11
27	Derivative of functions over lattices as a basis for the notion of interaction between attributes. Annals of Mathematics and Artificial Intelligence, 2007, 49, 151-170.	0.9	8
28	Explaining robust additive utility models by sequences of preference swaps. Theory and Decision, 2017, 82, 151-183.	0.5	7
29	Neural Representation and Learning of Hierarchical 2-additive Choquet Integrals. , 2020, , .		7
30	Minimal and Complete Explanations for Critical Multi-attribute Decisions. Lecture Notes in Computer Science, 2011, , 121-134.	1.0	6
31	Simple ranking method using reference profiles: incremental elicitation of the preference parameters. 4or, 2022, 20, 499-530.	1.0	5
32	Generalization of the Schwarz Reflection Principle in Scattering Theory for Dissipative Systems: Application to Purely Imaginary Resonant Frequencies. SIAM Journal on Mathematical Analysis, 1999, 30, 848-878.	0.9	4
33	A decision-making process for exploring architectural variants in systems engineering. , 2016, , .		4
34	A new multilateral multi-issue negotiation protocol and its application to a crisis management problem. Multiagent and Grid Systems, 2008, 4, 103-123.	0.5	3
35	Valued preference-based instantiation of argumentation frameworks with varied strength defeats. International Journal of Approximate Reasoning, 2014, 55, 2004-2027.	1.9	3
36	A note on the Sobol' indices and interactive criteria. Fuzzy Sets and Systems, 2017, 315, 99-108.	1.6	3

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37	Monotone decomposition of 2-additive Generalized Additive Independence models. Mathematical Social Sciences, 2018, 92, 64-73.	0.3	3
38	On importance indices in multicriteria decision making. European Journal of Operational Research, 2019, 277, 269-283.	3.5	3
39	An Axiomatisation of the Banzhaf Value and Interaction Index for Multichoice Games. Lecture Notes in Computer Science, 2018, , 143-155.	1.0	3
40	Axiomatization of an Importance Index forÂGeneralized Additive Independence Models. Lecture Notes in Computer Science, 2017, , 340-350.	1.0	3
41	An axiomatization of the Choquet integral in the context of multiple criteria decision making without any commensurability assumption. Annals of Operations Research, 2018, 271, 701-735.	2.6	2
42	Interpretation of Multicriteria Decision Making Models with Interacting Criteria. Multiple Criteria Decision Making, 2019, , 151-176.	0.6	2
43	Interaction indices for multichoice games. Fuzzy Sets and Systems, 2020, 383, 1-26.	1.6	2
44	An Alternative View of Importance Indices for Multichoice Games. Lecture Notes in Computer Science, 2017, , 81-92.	1.0	2
45	Comparing Options with Argument Schemes Powered by Cancellation. , 2019, , .		2
46	Explaining Hierarchical Multi-linear Models. Lecture Notes in Computer Science, 2019, , 192-206.	1.0	1
47	Holistic Preference Learning with the Choquet Integral. , 2013, , .		1
48	On the convex hull of k-additive 0-1 capacities and its application to model identification in decision making. Fuzzy Sets and Systems, 2022, 451, 228-252.	1.6	1
49	A Reduction of the Complexity of Inconsistencies Test in the MACBETH 2-Additive Methodology. Lecture Notes in Computer Science, 2011, , 178-189.	1.0	0
50	Interaction indices for games on combinatorial structures with forbidden coalitions. European Journal of Operational Research, 2011, 214, 99-108.	3.5	0
51	Explanation with the Winter Value: Efficient Computation for Hierarchical Choquet Integrals. Lecture Notes in Computer Science, 2021, , 471-485.	1.0	0
52	Construction of a Bi-capacity and Its Utility Functions without any Commensurability Assumption in Multi-criteria Decision Making. Communications in Computer and Information Science, 2014, , 294-303.	0.4	0
53	A Comparison of the GAI Model and the Choquet Integral w.r.t. a k-ary Capacity. Lecture Notes in Computer Science, 2015, , 54-65.	1.0	0
54	Well-formed decompositions of generalized additive independence models. Annals of Operations Research, 0, , 1.	2.6	0