Javier Montero

List of Publications by Year
in descending order

189 papers	**3,634** citations	159585 **30** h-index	161849 **54** g-index
205 all docs	**205** docs citations	**205** times ranked	**1435** citing authors

#	Article	IF	Citations
1	Analysing monotonicity in non-deterministic computable aggregations: The probabilistic case. Information Sciences, 2022, 583, 288-305.	6.9	3
2	Fuzzy Clustering Methods with RÃ©nyi Relative Entropy and Cluster Size. Mathematics, 2021, 9, 1423.	2.2	6
3	Population Monotonicity of Non-deterministic Computable Aggregations. , 2021, , .		1
4	A characterization of reciprocal fuzzy preference structures and its compatibility with standard fuzzy preference structures. Fuzzy Sets and Systems, 2021, 422, 48-67.	2.7	1
5	Degree of Global Covering and Global Overlapping in Solvency Fuzzy Classification. Advances in Intelligent Systems and Computing, 2021, , 21-32.	0.6	0
6	A generalization of stability for families of aggregation operators. Fuzzy Sets and Systems, 2020, 378, 68-78.	2.7	2
7	Conditioned Monotonicity for Generalized Pre-Aggregations and Aggregations. , 2020, , .		1
8	Evaluation of the quality and relevance of a fuzzy partition. Journal of Intelligent and Fuzzy Systems, 2020, 39, 4211-4226.	1.4	1
9	Analyzing Non-deterministic Computable Aggregations. Communications in Computer and Information Science, 2020, , 551-564.	0.5	1
10	General overlap functions. Fuzzy Sets and Systems, 2019, 372, 81-96.	2.7	75
11	Setâ€based extended aggregation functions. International Journal of Intelligent Systems, 2019, 34, 2039-2054.	5.7	6
12	A novel ordered weighted averaging weight determination based on ordinal dispersion. International Journal of Intelligent Systems, 2019, 34, 2291-2315.	5.7	2
13	An Algebraic Approach to DC Railway Electrification Verification. Mathematics in Computer Science, 2019, 13, 449-457.	0.4	2
14	Editorial to image processing with soft computing techniques. Soft Computing, 2019, 23, 1777-1778.	3.6	1
15	A New Approach to Color Edge Detection by Means of Transforming RGB Images into an 8-Dimension Color Space. , 2019, , .		2
16	Types of Recursive Computable Aggregations. , 2019, , .		3
17	Ambiguity Measures for Preference-Based Decision Viewpoints. Lecture Notes in Computer Science, 2019, , 38-49.	1.3	0
18	Aggregation Operators to Evaluate the Relevance of Classes in a Fuzzy Partition. Advances in Intelligent Systems and Computing, 2019, , 13-21.	0.6	2

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19	Letter from the President of IFSA. Fuzzy Sets and Systems, 2018, 331, 12-13.	2.7	1
20	Self-adapting weighted operators for multiscale gradient fusion. Information Fusion, 2018, 44, 136-146.	19.1	14
21	Computable aggregations. Information Sciences, 2018, 460-461, 439-449.	6.9	16
22	Social index construction method based on consistent aggregation operator families. , 2018, , .		0
23	An axiomatic approach to finite means. Information Sciences, 2018, 457-458, 12-28.	6.9	7
24	Relevance of Classes in a Fuzzy Partition. A Study from a Group of Aggregation Operators. Communications in Computer and Information Science, 2018, , 96-107.	0.5	2
25	A bipolar knowledge representation model to improve supervised fuzzy classification algorithms. Soft Computing, 2018, 22, 5121-5146.	3.6	4
26	A novel edge detection algorithm based on a hierarchical graph-partition approach. Journal of Intelligent and Fuzzy Systems, 2018, 34, 1875-1892.	1.4	5
27	Automatic Detection of Thistle-Weeds in Cereal Crops from Aerial RGB Images. Communications in Computer and Information Science, 2018, , 441-452.	0.5	3
28	On Stability of Families for Improper Aggregation Operators. Advances in Intelligent Systems and Computing, 2018, , 172-180.	0.6	0
29	Graph Approach in Image Segmentation. Advances in Intelligent Systems and Computing, 2018, , 200-212.	0.6	0
30	Approaches to learning strictly-stable weights for data with missing values. Fuzzy Sets and Systems, 2017, 325, 97-113.	2.7	16
31	Learning preferences from paired opposite-based semantics. International Journal of Approximate Reasoning, 2017, 86, 80-91.	3.3	4
32	Aggregation tools for the evaluation of classifications. , 2017, , .		5
33	QUALITY ASSESSMENT OF FUZZY CLASSIFICATION: AN APPLICATION TO SOLVENCY ANALYSIS. Fuzzy Economic Review, 2017, 22, 2274.	0.4	4
34	Logic, Mathematics and Consistency in Literature: Searching for Don Quixoteâ€™s Place. Advances in Dynamics, Patterns, Cognition, 2017, , 221-245.	0.3	0
35	Construction of Capacities from Overlap Indexes. Studies in Computational Intelligence, 2017, , 323-335.	0.9	0
36	n-Dimensional overlap functions. Fuzzy Sets and Systems, 2016, 287, 57-75.	2.7	99

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37	A new modularity measure for Fuzzy Community detection problems based on overlap and grouping functions. International Journal of Approximate Reasoning, 2016, 74, 88-107.	3.3	67
38	Classifying image analysis techniques from their output. International Journal of Computational Intelligence Systems, 2016, 9, 43.	2.7	22
39	Paired fuzzy sets and other opposite-based models. , 2016, , .		1
40	A NEW VIEW ON THE RELATIONSHIPS BETWEEN INTERVAL VALUED AND INTUITIONISTIC FUZZY SETS. , 2016, , .		0
41	Paired structures in knowledge representation. Knowledge-Based Systems, 2016, 100, 50-58.	7.1	25
42	A Historical Account of Types of Fuzzy Sets and Their Relationships. IEEE Transactions on Fuzzy Systems, 2016, 24, 179-194.	9.8	384
43	Paired Structures, Imprecision Types and Two-Level Knowledge Representation by Means of Opposites. Advances in Intelligent Systems and Computing, 2016, , 3-15.	0.6	2
44	The Origin of Fuzzy Extensions. , 2015, , 89-112.		5
45	A Divide-and-Link algorithm for hierarchical clustering in networks. Information Sciences, 2015, 316, 308-328.	6.9	35
46	Expansible Computable Aggregation Rules. , 2015, , .		0
47	Paired fuzzy sets: A unifying model for early knowledged acquisition. , 2015, , .		0
48	Sequential aggregation of bags. Information Sciences, 2015, 294, 305-314.	6.9	6
49	Intelligent Decision-Making Models for Disaster Management. Human and Ecological Risk Assessment (HERA), 2015, 21, 1341-1360.	3.4	16
50	Fuzzy image segmentation based upon hierarchical clustering. Knowledge-Based Systems, 2015, 87, 26-37.	7.1	50
51	Building the meaning of preference from logical paired structures. Knowledge-Based Systems, 2015, 83, 32-41.	7.1	10
52	From Trillas' Negations and Antonyms to a Set Representation of Contradiction Within Bipolar and Other Extensions of Fuzzy Sets. Studies in Fuzziness and Soft Computing, 2015, , 159-177.	0.8	0
53	Consistency and stability in aggregation operators: An application to missing data problems. International Journal of Computational Intelligence Systems, 2014, 7, 595.	2.7	19
54	Computational intelligence in decision making. International Journal of Computational Intelligence Systems, 2014, 7, 1-5.	2.7	8

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55	Another paraconsistent algebraic semantics for Lukasiewicz–Pavelka logic. Fuzzy Sets and Systems, 2014, 242, 132-147.	2.7	9
56	An ordinal approach to computing with words and the preference–aversion model. Information Sciences, 2014, 258, 239-248.	6.9	12
57	Development of child's home environment indexes based on consistent families of aggregation operators with prioritized hierarchical information. Fuzzy Sets and Systems, 2014, 241, 41-60.	2.7	16
58	A NEW CONCEPT OF FUZZY IMAGE SEGMENTATION. , 2014, , .		4
59	Relevance in Preference Structures. Advances in Intelligent Systems and Computing, 2014, , 117-125.	0.6	1
60	Neutrality in Bipolar Structures. Advances in Intelligent Systems and Computing, 2014, , 11-17.	0.6	0
61	Paired Structures in Logical and Semiotic Models of Natural Language. Communications in Computer and Information Science, 2014, , 566-575.	0.5	1
62	BIPOLARITY IN SOCIAL SCIENCES AND MATHEMATICS. , 2014, , .		0
63	A fuzzy and bipolar approach to preference modeling with application to need and desire. Fuzzy Sets and Systems, 2013, 214, 20-34.	2.7	23
64	Strictly stable families of aggregation operators. Fuzzy Sets and Systems, 2013, 228, 44-63.	2.7	31
65	Consistency and stability in aggregation operators with data structure. , 2013, , .		0
66	Fuzzy Dissimilarity-Based Classification for Disaster Initial Assessment. , 2013, , .		1
67	Consistency and Stability in Aggregation Operators: An Application to Missing Data Problems. Advances in Intelligent Systems and Computing, 2013, , 507-518.	0.6	1
68	A general methodology for data-based rule building and its application to natural disaster management. Computers and Operations Research, 2012, 39, 863-873.	4.0	37
69	Multifollower Trilevel Decision Making Models and System. IEEE Transactions on Industrial Informatics, 2012, 8, 974-985.	11.3	21
70	A generalization of the migrativity property of aggregation functions. Information Sciences, 2012, 191, 76-85.	6.9	59
71	Stability in Aggregation Operators. Communications in Computer and Information Science, 2012, , 317-325.	0.5	7
72	TYPES OF BIPOLARITY AND BIPOLAR STRUCTURES. , 2012, , .		0

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73	DISSIMILARITY-BASED BIPOLAR SUPERVISED CLASSIFICATION. World Scientific Proceedings Series on Computer Engingeering and Information Science, 2012, , 894-899.	0.1	0
74	Rule-based classification by means of bipolar criteria. , 2011, , .		4
75	Network clustering by graph coloring: An application to astronomical images. , 2011, , .		1
76	A multi-criteria optimization model for humanitarian aid distribution. Journal of Global Optimization, 2011, 51, 189-208.	1.8	218
77	A disaster-severity assessment DSS comparative analysis. OR Spectrum, 2011, 33, 451-479.	3.4	25
78	A divide-link algorithm based on fuzzy similarity for clustering networks. , 2011, , .		2
79	On the Semantics of Bipolarity and Fuzziness. Advances in Intelligent and Soft Computing, 2011, , 193-205.	0.2	9
80	On Partial Comparability and Fuzzy Preference-Aversion Models. Advances in Intelligent and Soft Computing, 2011, , 307-316.	0.2	5
81	Determining the accuracy in image supervised classification problems. , 2011, , .		14
82	An Improved Iterative Binary Coloring Procedure for Color Image Segmentation. Advances in Intelligent and Soft Computing, 2011, , 635-640.	0.2	0
83	Relational structures for measures of ignorance. , 2011, , .		0
84	Fuzzy Specification in Real Estate Market Decision Making. International Journal of Computational Intelligence Systems, 2010, 3, 8-20.	2.7	30
85	Upgrading ideas about the concept of Soft Computing. International Journal of Computational Intelligence Systems, 2010, 3, 144-147.	2.7	4
86	FORMAL SPECIFICATION AND IMPLEMENTATION OF COMPUTATIONAL AGGREGATION FUNCTIONS. , 2010, , .		8
87	Overlap functions. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 1488-1499.	1.1	262
88	A natural-disaster management DSS for Humanitarian Non-Governmental Organisations. Knowledge-Based Systems, 2010, 23, 17-22.	7.1	23
89	Ignorance functions. An application to the calculation of the threshold in prostate ultrasound images. Fuzzy Sets and Systems, 2010, 161, 20-36.	2.7	92
90	Model, solution concept, and Kth-best algorithm for linear trilevel programming. Information Sciences, 2010, 180, 481-492.	6.9	39

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91	Contrast of a fuzzy relation. Information Sciences, 2010, 180, 1326-1344.	6.9	24
92	A class of aggregation functions encompassing two-dimensional OWA operators. Information Sciences, 2010, 180, 1977-1989.	6.9	62
93	Soft information analysis. International Journal of General Systems, 2010, 39, 215-216.	2.5	0
94	A computational definition of aggregation rules. , 2010, , .		4
95	A divisive hierarchical k-means based algorithm for image segmentation. , 2010, , .		2
96	Information measures over intuitionistic four valued fuzzy preferences. , 2010, , .		4
97	A hierarchical segmentation for image processing. , 2010, , .		1
98	An algebraic method for managing reliability in propositional logics. , 2010, , .		0
99	Organizing information by fuzzy preference structures fuzzy preference semantics. , 2010, , .		2
100	Recognition of Partially Occluded and Rotated Images With a Network of Spiking Neurons. IEEE Transactions on Neural Networks, 2010, 21, 1697-1709.	4.2	32
101	Fuzzy Specification in Real Estate Market Decision Making. International Journal of Computational Intelligence Systems, 2010, 3, 8.	2.7	7
102	Rectification of Preferences in a Fuzzy Environment. Communications in Computer and Information Science, 2010, , 168-178.	0.5	1
103	CONSENSUS MEASURES FOR SYMBOLIC DATA. , 2010, , .		0
104	A Structural Approach to Image Segmentation. , 2009, , .		0
105	Modelling bipolar multicriteria decision making. , 2009, , .		1
106	Migrativity of aggregation functions. Fuzzy Sets and Systems, 2009, 160, 766-777.	2.7	86
107	Computing a T-transitive lower approximation or opening of a proximity relation. Fuzzy Sets and Systems, 2009, 160, 2097-2105.	2.7	4
108	IMPROVING RELIABILITY AND PERFORMANCE IN COMPUTER SYSTEMS BY MEANS OF FUZZY SPECIFICATIONS. , 2009, , .		5

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109	Fuzzy Logic and Science. Studies in Fuzziness and Soft Computing, 2009, , 67-77.	0.8	13
110	Improvements to Remote Sensing Using Fuzzy Classification, Graphs and Accuracy Statistics. Pure and Applied Geophysics, 2008, 165, 1555-1575.	1.9	12
111	Improvements to Remote Sensing Using Fuzzy Classification, Graphs and Accuracy Statistics. , 2008, , 1555-1575.		0
112	REV: Valuation and price adjustment in a fuzzy logic framework. , 2008, , .		0
113	Accuracy statistics for judging soft classification. International Journal of Remote Sensing, 2008, 29, 693-709.	2.9	31
114	SPECIFICATION AND COMPUTING STATES IN FUZZY ALGORITHMS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2008, 16, 301-336.	1.9	10
115	AN ALGORITHMIC APPROACH TO PREFERENCE REPRESENTATION. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2008, 16, 1-18.	1.9	1
116	Soft sciences versus crisp sciences: A look into the future of science. , 2008, , .		0
117	Laws for conjunctions and disjunctions in interval type 2 fuzzy sets. , 2008, , .		2
118	COMPUTING A T-TRANSITIVE OPENING OF A PROXIMITY. , 2008, , .		0
119	GRAPH COLORING INCONSISTENCIES IN IMAGE SEGMENTATION. , 2008, , .		7
120	A DECISION SUPPORT TOOL FOR HUMANITARIAN OPERATIONS IN NATURAL DISASTER RELIEF. , 2008, , .		3
121	FUZZY LOGIC IN REAL ESTATE VALUATION. , 2008, , .		2
122	DETERMINING THE ACCURACY IN SUPERVISED FUZZY CLASSIFICATION PROBLEMS. , 2008, , .		0
123	Improving Fuzzy Classification by Means of a Segmentation Algorithm. , 2008, , 453-471.		1
124	CHALLENGES FOR IMPROVING CONSENSUS REACHING PROCESS IN COLLECTIVE DECISIONS. New Mathematics and Natural Computation, 2007, 03, 203-217.	0.7	47
125	Atanassovâ€™s Intuitionistic Fuzzy Sets as a Classification Model. Lecture Notes in Computer Science, 2007, , 69-75.	1.3	3
126	A Spatial Classification Model for Multicriteria Analysis. , 2007, , .		0

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127	On the relevance of some families of fuzzy sets. Fuzzy Sets and Systems, 2007, 158, 2429-2442.	2.7	134
128	Semiautoduality in a restricted family of aggregation operators. Fuzzy Sets and Systems, 2007, 158, 1360-1377.	2.7	41
129	A graph coloring approach for image segmentation. Omega, 2007, 35, 173-183.	5.9	42
130	Decomposing Preference Relations. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	0
131	The impact of fuzziness in social choice paradoxes. Soft Computing, 2007, 12, 177-182.	3.6	18
132	Fuzzy sets in remote sensing classification. Soft Computing, 2007, 12, 243-249.	3.6	15
133	The Role of Fuzziness in Decision Making. , 2007, , 337-349.		36
134	A coloring fuzzy graph approach for image classification. Information Sciences, 2006, 176, 3645-3657.	6.9	54
135	Fuzzy Logic Applications to Fire Control Systems. , 2006, , .		4
136	Consistency in preference modelling. , 2006, , 87-97.		10
137	A FUNCTIONAL TOOL FOR FUZZY FIRST ORDER LOGIC EVALUATION. , 2006, , .		4
138	Crisp dimension theory and valued preference relations. International Journal of General Systems, 2004, 33, 115-131.	2.5	3
139	Fuzzy classification systems. European Journal of Operational Research, 2004, 156, 495-507.	5.7	102
140	CLASSIFIERS AND DECISION MAKERS. , 2004, , .		4
141	A COLORING ALGORITHM FOR IMAGE CLASSIFICATION. , 2004, , .		8
142	Soft dimension theory. Fuzzy Sets and Systems, 2003, 137, 137-149.	2.7	24
143	Searching for the dimension of valued preference relations. International Journal of Approximate Reasoning, 2003, 33, 133-157.	3.3	24
144	Spectral fuzzy classification: an application. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2002, 32, 42-48.	2.9	16

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145	UNDERLYING CRITERIA IN VALUED PREFERENCE RELATIONS. , 2002, , .		0
146	Representation of consistent recursive rules. European Journal of Operational Research, 2001, 130, 29-53.	5.7	75
147	CLASSIFYING PIXELS BY MEANS OF FUZZY RELATIONS. International Journal of General Systems, 2000, 29, 605-621.	2.5	16
148	Additive Recursive Rules. Studies in Fuzziness and Soft Computing, 2000, , 75-88.	0.8	0
149	An Extension of the Axioms of Utility Theory Based on Fuzzy Rationality Measures. Studies in Fuzziness and Soft Computing, 2000, , 33-50.	0.8	2
150	A Poset Dimension Algorithm. Journal of Algorithms, 1999, 30, 185-208.	0.9	22
151	Recursive connective rules. International Journal of Intelligent Systems, 1999, 14, 3-20.	5.7	71
152	Nondeterministic aggregation operators and systems. International Journal of Intelligent Systems, 1998, 13, 181-192.	5.7	1
153	Aggregation Operators for Fuzzy Rationality Measures. Studies in Fuzziness and Soft Computing, 1998, , 98-105.	0.8	0
154	Equivalence and compositions of fuzzy rationality measures. Fuzzy Sets and Systems, 1997, 85, 31-43.	2.7	11
155	A general model for deriving preference structures from data. European Journal of Operational Research, 1997, 98, 98-110.	5.7	41
156	Aggregation Rules in Committee Procedures. , 1997, , 219-237.		2
157	Structure functions with fuzzy states. Fuzzy Sets and Systems, 1996, 83, 189-202.	2.7	21
158	Fuzzy multicriteria decision support for budget allocation in the transport sector. Top, 1995, 3, 47-68.	1.6	10
159	HIERARCHICAL AGGREGATION OF OWA OPERATORS: BASIC MEASURES AND RELATED COMPUTATIONAL PROBLEMS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 1995, 03, 17-26.	1.9	29
160	Information Aggregation: Ethical and Computational Issues. International Series in Intelligent Technologies, 1995, , 175-200.	0.1	5
161	THE COMPUTATIONAL PROBLEM OF USING OWA OPERATORS. Advances in Fuzzy Systems, 1995, , 166-172.	8.7	2
162	General Structure Functions. Kybernetes, 1994, 23, 10-19.	2.2	15

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163	Fuzzy rationality measures. Fuzzy Sets and Systems, 1994, 62, 39-54.	2.7	67
164	Hierarchies of aggregation operators. International Journal of Intelligent Systems, 1994, 9, 1025-1045.	5.7	28
165	Hierarchies of intensity preference aggregations. International Journal of Approximate Reasoning, 1994, 10, 123-133.	3.3	10
166	Rational aggregation rules. Fuzzy Sets and Systems, 1994, 62, 267-276.	2.7	18
167	Barlow-wu continuum systems: A discussion on the model. Top, 1993, 1, 117-125.	1.6	2
168	Multivalued continuum systems. European Journal of Operational Research, 1993, 69, 55-64.	5.7	4
169	A characterization of rational amalgamation operations. International Journal of Approximate Reasoning, 1993, 8, 325-344.	3.3	22
170	Reliability Bounds for Multicriteria Systems. Journal of the Operational Research Society, 1993, 44, 1025-1034.	3.4	0
171	Observable Structure Functions. Kybernetes, 1993, 22, 31-39.	2.2	4
172	Structural properties of continuum systems. European Journal of Operational Research, 1990, 45, 231-240.	5.7	20
173	Fuzzy multicriteria techniques: An application to transport planning. , 1990, , 509-519.		1
174	Cooperative fuzzy expert systems—Their design and applications in intelligent recognition. European Journal of Operational Research, 1989, 42, 342.	5.7	0
175	A necessary and sufficient condition for the existence of Orlovsky's choice set. Fuzzy Sets and Systems, 1988, 26, 121-125.	2.7	30
176	Aggregation of fuzzy opinions in a non-homogeneous group. Fuzzy Sets and Systems, 1988, 25, 15-20.	2.7	44
177	Arrow's theorem under fuzzy rationality. Systems Research and Behavioral Science, 1987, 32, 267-273.	0.2	38
178	Extensive fuzziness. Fuzzy Sets and Systems, 1987, 21, 201-209.	2.7	16
179	Some problems on the definition of fuzzy preference relations. Fuzzy Sets and Systems, 1986, 20, 45-53.	2.7	42
180	A note on Fung-Fu's theorem. Fuzzy Sets and Systems, 1985, 17, 259-269.	2.7	35

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181	Recursive families of OWA operators. , 0, , .		17
182	Associativeness versus recursiveness. , 0, , .		3
183	Binary operators and connective rules. , 0, , .		3
184	Non deterministic fuzzy classification systems. , 0, , .		0
185	On the principles of fuzzy classification. , 0, , .		11
186	Fuzzy rationality and utility theory axioms. , 0, , .		0
187	Spectral fuzzy classification system for target recognition. , 0, , .		3
188	Painting algorithms for fuzzy classification. , 0, , .		1
189	Unsupervised Perceptual Model for Color Image's Segmentation. , 0, , .		1