

Humberto Bustince

List of Publications by Year in descending order

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391
papers

16,717
citations

13865

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410
docs citations

410
times ranked

6763
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on Ensembles for the Class Imbalance Problem: Bagging-, Boosting-, and Hybrid-Based Approaches. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 463-484.	2.9	1,955
2	Vague sets are intuitionistic fuzzy sets. Fuzzy Sets and Systems, 1996, 79, 403-405.	2.7	764
3	Entropy on intuitionistic fuzzy sets and on interval-valued fuzzy sets. Fuzzy Sets and Systems, 1996, 78, 305-316.	2.7	632
4	An overview of ensemble methods for binary classifiers in multi-class problems: Experimental study on one-vs-one and one-vs-all schemes. Pattern Recognition, 2011, 44, 1761-1776.	8.1	599
5	A Historical Account of Types of Fuzzy Sets and Their Relationships. IEEE Transactions on Fuzzy Systems, 2016, 24, 179-194.	9.8	384
6	Correlation of interval-valued intuitionistic fuzzy sets. Fuzzy Sets and Systems, 1995, 74, 237-244.	2.7	333
7	Generation of linear orders for intervals by means of aggregation functions. Fuzzy Sets and Systems, 2013, 220, 69-77.	2.7	276
8	Overlap functions. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 1488-1499.	1.1	262
9	Automorphisms, negations and implication operators. Fuzzy Sets and Systems, 2003, 134, 209-229.	2.7	258
10	On averaging operators for Atanassov's intuitionistic fuzzy sets. Information Sciences, 2011, 181, 1116-1124.	6.9	253
11	Grouping, Overlap, and Generalized Bientropic Functions for Fuzzy Modeling of Pairwise Comparisons. IEEE Transactions on Fuzzy Systems, 2012, 20, 405-415.	9.8	241
12	Indicator of inclusion grade for interval-valued fuzzy sets. Application to approximate reasoning based on interval-valued fuzzy sets. International Journal of Approximate Reasoning, 2000, 23, 137-209.	3.3	229
13	Interval-valued fuzzy sets constructed from matrices: Application to edge detection. Fuzzy Sets and Systems, 2009, 160, 1819-1840.	2.7	208
14	A position and perspective analysis of hesitant fuzzy sets on information fusion in decision making. Towards high quality progress. Information Fusion, 2016, 29, 89-97.	19.1	199
15	Structures on intuitionistic fuzzy relations. Fuzzy Sets and Systems, 1996, 78, 293-303.	2.7	193
16	A New Approach to Interval-Valued Choquet Integrals and the Problem of Ordering in Interval-Valued Fuzzy Set Applications. IEEE Transactions on Fuzzy Systems, 2013, 21, 1150-1162.	9.8	178
17	Image thresholding using restricted equivalence functions and maximizing the measures of similarity. Fuzzy Sets and Systems, 2007, 158, 496-516.	2.7	162
18	Aggregation functions for typical hesitant fuzzy elements and the action of automorphisms. Information Sciences, 2014, 255, 82-99.	6.9	162

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19	Restricted equivalence functions. <i>Fuzzy Sets and Systems</i> , 2006, 157, 2333-2346.	2.7	156
20	Some properties of overlap and grouping functions and their application to image thresholding. <i>Fuzzy Sets and Systems</i> , 2013, 229, 69-90.	2.7	156
21	New results on overlap and grouping functions. <i>Information Sciences</i> , 2013, 249, 148-170.	6.9	156
22	Construction of fuzzy indices from fuzzy DI-subsethood measures: Application to the global comparison of images. <i>Information Sciences</i> , 2007, 177, 906-929.	6.9	151
23	Preaggregation Functions: Construction and an Application. <i>IEEE Transactions on Fuzzy Systems</i> , 2016, 24, 260-272.	9.8	146
24	Relationship between restricted dissimilarity functions, restricted equivalence functions and normal EN-functions: Image thresholding invariant. <i>Pattern Recognition Letters</i> , 2008, 29, 525-536.	4.2	140
25	Mathematical analysis of interval-valued fuzzy relations: Application to approximate reasoning. <i>Fuzzy Sets and Systems</i> , 2000, 113, 205-219.	2.7	135
26	On the relevance of some families of fuzzy sets. <i>Fuzzy Sets and Systems</i> , 2007, 158, 2429-2442.	2.7	134
27	CC-integrals: Choquet-like Copula-based aggregation functions and its application in fuzzy rule-based classification systems. <i>Knowledge-Based Systems</i> , 2017, 119, 32-43.	7.1	134
28	A Compact Evolutionary Interval-Valued Fuzzy Rule-Based Classification System for the Modeling and Prediction of Real-World Financial Applications With Imbalanced Data. <i>IEEE Transactions on Fuzzy Systems</i> , 2015, 23, 973-990.	9.8	133
29	Enhancing Multiclass Classification in FARC-HD Fuzzy Classifier: On the Synergy Between n -Dimensional Overlap Functions and Decomposition Strategies. <i>IEEE Transactions on Fuzzy Systems</i> , 2015, 23, 1562-1580.	9.8	132
30	Quantitative error measures for edge detection. <i>Pattern Recognition</i> , 2013, 46, 1125-1139.	8.1	126
31	Directional monotonicity of fusion functions. <i>European Journal of Operational Research</i> , 2015, 244, 300-308.	5.7	124
32	Intuitionistic fuzzy generators Application to intuitionistic fuzzy complementation. <i>Fuzzy Sets and Systems</i> , 2000, 114, 485-504.	2.7	123
33	Medical diagnosis of cardiovascular diseases using an interval-valued fuzzy rule-based classification system. <i>Applied Soft Computing Journal</i> , 2014, 20, 103-111.	7.2	123
34	CF -integrals: A new family of pre-aggregation functions with application to fuzzy rule-based classification systems. <i>Information Sciences</i> , 2018, 435, 94-110.	6.9	123
35	IVTURS: A Linguistic Fuzzy Rule-Based Classification System Based On a New Interval-Valued Fuzzy Reasoning Method With Tuning and Rule Selection. <i>IEEE Transactions on Fuzzy Systems</i> , 2013, 21, 399-411.	9.8	122
36	A genetic tuning to improve the performance of Fuzzy Rule-Based Classification Systems with Interval-Valued Fuzzy Sets: Degree of ignorance and lateral position. <i>International Journal of Approximate Reasoning</i> , 2011, 52, 751-766.	3.3	121

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37	On additive generators of overlap functions. <i>Fuzzy Sets and Systems</i> , 2016, 287, 76-96.	2.7	120
38	New method to assess barley nitrogen nutrition status based on image colour analysis. <i>Computers and Electronics in Agriculture</i> , 2009, 65, 213-218.	7.7	119
39	The state-of-art of the generalizations of the Choquet integral: From aggregation and pre-aggregation to ordered directionally monotone functions. <i>Information Fusion</i> , 2020, 57, 27-43.	19.1	119
40	A survey on fingerprint minutiae-based local matching for verification and identification: Taxonomy and experimental evaluation. <i>Information Sciences</i> , 2015, 315, 67-87.	6.9	115
41	Definition and construction of fuzzy DI-subsethood measures. <i>Information Sciences</i> , 2006, 176, 3190-3231.	6.9	110
42	Improving the performance of fuzzy rule-based classification systems with interval-valued fuzzy sets and genetic amplitude tuning. <i>Information Sciences</i> , 2010, 180, 3674-3685.	6.9	106
43	QL-operations and QL-implication functions constructed from tuples (O,G,N) and the generation of fuzzy subsethood and entropy measures. <i>International Journal of Approximate Reasoning</i> , 2017, 82, 170-192.	3.3	103
44	n-Dimensional overlap functions. <i>Fuzzy Sets and Systems</i> , 2016, 287, 57-75.	2.7	99
45	Fuzzy Rule-Based Classification Systems for multi-class problems using binary decomposition strategies: On the influence of n-dimensional overlap functions in the Fuzzy Reasoning Method. <i>Information Sciences</i> , 2016, 332, 94-114.	6.9	99
46	Construction of Interval-Valued Fuzzy Relations With Application to the Generation of Fuzzy Edge Images. <i>IEEE Transactions on Fuzzy Systems</i> , 2011, 19, 819-830.	9.8	95
47	Construction of interval-valued fuzzy preference relations from ignorance functions and fuzzy preference relations. Application to decision making. <i>Knowledge-Based Systems</i> , 2014, 58, 33-44.	7.1	95
48	Ignorance functions. An application to the calculation of the threshold in prostate ultrasound images. <i>Fuzzy Sets and Systems</i> , 2010, 161, 20-36.	2.7	92
49	Construction of intuitionistic fuzzy relations with predetermined properties. <i>Fuzzy Sets and Systems</i> , 2000, 109, 379-403.	2.7	91
50	Generalized interval-valued OWA operators with interval weights derived from interval-valued overlap functions. <i>International Journal of Approximate Reasoning</i> , 2017, 90, 1-16.	3.3	90
51	Migrativity of aggregation functions. <i>Fuzzy Sets and Systems</i> , 2009, 160, 766-777.	2.7	86
52	A gravitational approach to edge detection based on triangular norms. <i>Pattern Recognition</i> , 2010, 43, 3730-3741.	8.1	86
53	Uncertainties with Atanassov's intuitionistic fuzzy sets: Fuzziness and lack of knowledge. <i>Information Sciences</i> , 2013, 228, 61-74.	6.9	86
54	Dynamic classifier selection for One-vs-One strategy: Avoiding non-competent classifiers. <i>Pattern Recognition</i> , 2013, 46, 3412-3424.	8.1	85

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55	Multiscale edge detection based on Gaussian smoothing and edge tracking. Knowledge-Based Systems, 2013, 44, 101-111.	7.1	83
56	Generation of interval-valued fuzzy and atanassov's intuitionistic fuzzy connectives from fuzzy connectives and from $K_{I\pm}$ operators: Laws for conjunctions and disjunctions, amplitude. International Journal of Intelligent Systems, 2008, 23, 680-714.	5.7	80
57	Construction theorems for intuitionistic fuzzy sets. Fuzzy Sets and Systems, 1996, 84, 271-281.	2.7	79
58	Construction of admissible linear orders for interval-valued Atanassov intuitionistic fuzzy sets with an application to decision making. Information Fusion, 2016, 27, 189-197.	19.1	79
59	Consensus via penalty functions for decision making in ensembles in fuzzy rule-based classification systems. Applied Soft Computing Journal, 2018, 67, 728-740.	7.2	79
60	Ordering-based pruning for improving the performance of ensembles of classifiers in the framework of imbalanced datasets. Information Sciences, 2016, 354, 178-196.	6.9	78
61	A review of the relationships between implication, negation and aggregation functions from the point of view of material implication. Information Sciences, 2016, 329, 357-380.	6.9	78
62	Interval Type-2 Fuzzy Sets Constructed From Several Membership Functions: Application to the Fuzzy Thresholding Algorithm. IEEE Transactions on Fuzzy Systems, 2013, 21, 230-244.	9.8	76
63	Improving the Performance of Fuzzy Rule-Based Classification Systems Based on a Nonaveraging Generalization of CC-Integrals Named $C_{\{F_1, F_2\}}$ -Integrals. IEEE Transactions on Fuzzy Systems, 2019, 27, 124-134.	9.8	76
64	General overlap functions. Fuzzy Sets and Systems, 2019, 372, 81-96.	2.7	75
65	Construction of image reduction operators using averaging aggregation functions. Fuzzy Sets and Systems, 2015, 261, 87-111.	2.7	74
66	A class of fuzzy multisets with a fixed number of memberships. Information Sciences, 2012, 189, 1-17.	6.9	73
67	Image segmentation using Atanassov's intuitionistic fuzzy sets. Expert Systems With Applications, 2013, 40, 15-26.	7.6	69
68	Interval-Valued Fuzzy Sets Applied to Stereo Matching of Color Images. IEEE Transactions on Image Processing, 2011, 20, 1949-1961.	9.8	68
69	Solving multi-class problems with linguistic fuzzy rule based classification systems based on pairwise learning and preference relations. Fuzzy Sets and Systems, 2010, 161, 3064-3080.	2.7	66
70	A class of aggregation functions encompassing two-dimensional OWA operators. Information Sciences, 2010, 180, 1977-1989.	6.9	62
71	Aggregation for Atanassov's Intuitionistic and Interval Valued Fuzzy Sets: The Median Operator. IEEE Transactions on Fuzzy Systems, 2012, 20, 487-498.	9.8	62
72	Consensus in multi-expert decision making problems using penalty functions defined over a Cartesian product of lattices. Information Fusion, 2014, 17, 56-64.	19.1	62

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91	An algorithm for group decision making using n-dimensional fuzzy sets, admissible orders and OWA operators. Information Fusion, 2017, 37, 126-131.	19.1	50
92	Evolutionary undersampling for extremely imbalanced big data classification under apache spark. , 2016, , .		49
93	Ordered Directionally Monotone Functions: Justification and Application. IEEE Transactions on Fuzzy Systems, 2018, 26, 2237-2250.	9.8	47
94	Forest fire detection: A fuzzy system approach based on overlap indices. Applied Soft Computing Journal, 2017, 52, 834-842.	7.2	46
95	Image Magnification Using Interval Information. IEEE Transactions on Image Processing, 2011, 20, 3112-3123.	9.8	45
96	Negations With Respect to Admissible Orders in the Interval-Valued Fuzzy Set Theory. IEEE Transactions on Fuzzy Systems, 2018, 26, 556-568.	9.8	45
97	An entropy measure definition for finite interval-valued hesitant fuzzy sets. Knowledge-Based Systems, 2015, 84, 121-133.	7.1	44
98	Semiautoduality in a restricted family of aggregation operators. Fuzzy Sets and Systems, 2007, 158, 1360-1377.	2.7	41
99	Similarity between interval-valued fuzzy sets taking into account the width of the intervals and admissible orders. Fuzzy Sets and Systems, 2020, 390, 23-47.	2.7	41
100	Interval-valued Fuzzy Sets in Soft Computing. International Journal of Computational Intelligence Systems, 2010, 3, 215-222.	2.7	40
101	Generalization of the weighted voting method using penalty functions constructed via faithful restricted dissimilarity functions. European Journal of Operational Research, 2013, 225, 472-478.	5.7	40
102	A survey of fingerprint classification Part II: Experimental analysis and ensemble proposal. Knowledge-Based Systems, 2015, 81, 98-116.	7.1	40
103	Interval-Valued Atanassov Intuitionistic OWA Aggregations Using Admissible Linear Orders and Their Application to Decision Making. IEEE Transactions on Fuzzy Systems, 2016, 24, 1586-1597.	9.8	40
104	A construction method of Atanassov's intuitionistic fuzzy sets for image processing. , 2010, , .		39
105	Fusion functions based discrete Choquet-like integrals. European Journal of Operational Research, 2016, 252, 601-609.	5.7	39
106	On the impact of anisotropic diffusion on edge detection. Pattern Recognition, 2014, 47, 270-281.	8.1	38
107	Evolutionary undersampling for imbalanced big data classification. , 2015, , .		38
108	Typical Hesitant Fuzzy Negations. International Journal of Intelligent Systems, 2014, 29, 525-543.	5.7	37

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109	d-Choquet integrals: Choquet integrals based on dissimilarities. Fuzzy Sets and Systems, 2021, 414, 1-27.	2.7	37
110	Comment on: "Image thresholding using type II fuzzy sets". Importance of this method. Pattern Recognition, 2010, 43, 3188-3192.	8.1	34
111	Generating fuzzy edge images from gradient magnitudes. Computer Vision and Image Understanding, 2011, 115, 1571-1580.	4.7	34
112	IIVFDT: IGNORANCE FUNCTIONS BASED INTERVAL-VALUED FUZZY DECISION TREE WITH GENETIC TUNING. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2012, 20, 1-30.	1.9	32
113	INTUITIONISTIC FUZZY IMPLICATION OPERATORS " AN EXPRESSION AND MAIN PROPERTIES. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2004, 12, 387-406.	1.9	30
114	Composition of interval-valued fuzzy relations using aggregation functions. Information Sciences, 2016, 369, 690-703.	6.9	30
115	CFM-BD: A Distributed Rule Induction Algorithm for Building Compact Fuzzy Models in Big Data Classification Problems. IEEE Transactions on Fuzzy Systems, 2020, 28, 163-177.	9.8	30
116	Construction of strong equality index from implication operators. Fuzzy Sets and Systems, 2013, 211, 15-33.	2.7	29
117	Sugeno integral generalization applied to improve adaptive image binarization. Information Fusion, 2021, 68, 37-45.	19.1	29
118	Definite Integrals of Atanassov's Intuitionistic Fuzzy Information. IEEE Transactions on Fuzzy Systems, 2015, 23, 1519-1533.	9.8	27
119	A proposal for tuning the α parameter in C_{α} -integrals for application in fuzzy rule-based classification systems. Natural Computing, 2020, 19, 533-546.	3.0	27
120	GENERALIZED ATANASSOV'S INTUITIONISTIC FUZZY INDEX: CONSTRUCTION OF ATANASSOV'S FUZZY ENTROPY FROM FUZZY IMPLICATION OPERATORS. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2011, 19, 51-69.	1.9	26
121	Bimigrativity of binary aggregation functions. Information Sciences, 2014, 274, 225-235.	6.9	26
122	N -Dimensional Admissibly Ordered Interval-Valued Overlap Functions and Its Influence in Interval-Valued Fuzzy-Rule-Based Classification Systems. IEEE Transactions on Fuzzy Systems, 2022, 30, 1060-1072.	9.8	26
123	Paired structures in knowledge representation. Knowledge-Based Systems, 2016, 100, 50-58.	7.1	25
124	Contrast of a fuzzy relation. Information Sciences, 2010, 180, 1326-1344.	6.9	24
125	Weak and directional monotonicity of functions on Riesz spaces to fuse uncertain data. Fuzzy Sets and Systems, 2020, 386, 145-160.	2.7	24
126	Applications of finite interval-valued hesitant fuzzy preference relations in group decision making. Information Sciences, 2016, 326, 89-101.	6.9	23

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127	From Fuzzy Sets to Interval-Valued and Atanassov Intuitionistic Fuzzy Sets: A Unified View of Different Axiomatic Measures. IEEE Transactions on Fuzzy Systems, 2019, 27, 362-371.	9.8	22
128	Motor-Imagery-Based Brain-Computer Interface Using Signal Derivation and Aggregation Functions. IEEE Transactions on Cybernetics, 2022, 52, 7944-7955.	9.5	22
129	A wrapper methodology to learn interval-valued fuzzy rule-based classification systems. Applied Soft Computing Journal, 2021, 104, 107249.	7.2	22
130	Application of two different methods for extending lattice-valued restricted equivalence functions used for constructing similarity measures on L-fuzzy sets. Information Sciences, 2018, 441, 95-112.	6.9	21
131	A fuzzy association rule-based classifier for imbalanced classification problems. Information Sciences, 2021, 577, 265-279.	6.9	21
132	WEAK FUZZY S-SUBSETHOOD MEASURES: OVERLAP INDEX. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2006, 14, 537-560.	1.9	20
133	The median and its extensions. Fuzzy Sets and Systems, 2011, 175, 36-47.	2.7	20
134	Overlap Indices: Construction of and Application to Interpolative Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2015, 23, 1259-1273.	9.8	20
135	Intuitionistic fuzzy integrals based on Archimedean t-conorms and t-norms. Information Sciences, 2016, 327, 57-70.	6.9	20
136	Interval-valued fuzzy strong S-subsethood measures, interval-entropy and P-interval-entropy. Information Sciences, 2018, 432, 97-115.	6.9	20
137	Strengthened ordered directionally monotone functions. Links between the different notions of monotonicity. Fuzzy Sets and Systems, 2019, 357, 151-172.	2.7	20
138	The Interval-Valued Choquet Integral Based on Admissible Permutations. IEEE Transactions on Fuzzy Systems, 2019, 27, 1638-1647.	9.8	20
139	A family of Choquet-based non-associative aggregation functions for application in fuzzy rule-based classification systems. , 2015, , .		19
140	Pre-aggregation functions: Definition, properties and construction methods. , 2016, , .		19
141	Quantitative orness for lattice OWA operators. Information Fusion, 2016, 30, 27-35.	19.1	19
142	On some classes of directionally monotone functions. Fuzzy Sets and Systems, 2020, 386, 161-178.	2.7	19
143	Aggregation functions to combine RGB color channels in stereo matching. Optics Express, 2013, 21, 1247.	3.4	18
144	Separability Criteria for the Evaluation of Boundary Detection Benchmarks. IEEE Transactions on Image Processing, 2016, 25, 1047-1055.	9.8	18

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145	NMC: nearest matrix classification " A new combination model for pruning One-vs-One ensembles by transforming the aggregation problem. Information Fusion, 2017, 36, 26-51.	19.1	18
146	Neuro-inspired edge feature fusion using Choquet integrals. Information Sciences, 2021, 581, 740-754.	6.9	18
147	Type-2 fuzzy entropy sets. IEEE Transactions on Fuzzy Systems, 2017, 25, 993-1005.	9.8	17
148	Convolution lattices. Fuzzy Sets and Systems, 2018, 335, 67-93.	2.7	17
149	Strategies on admissible total orders over typical hesitant fuzzy implications applied to decision making problems. International Journal of Intelligent Systems, 2021, 36, 2144-2182.	5.7	17
150	New measures of homogeneity for image processing: an application to fingerprint segmentation. Soft Computing, 2014, 18, 1055-1066.	3.6	16
151	A framework for edge detection based on relief functions. Information Sciences, 2014, 278, 127-140.	6.9	16
152	An interval extension of homogeneous and pseudo-homogeneous t-norms and t-conorms. Information Sciences, 2016, 355-356, 328-347.	6.9	16
153	CHI-PG: A fast prototype generation algorithm for Big Data classification problems. Neurocomputing, 2018, 287, 22-33.	5.9	16
154	On admissible orders over closed subintervals of [0,1]. Fuzzy Sets and Systems, 2020, 399, 44-54.	2.7	16
155	The Notion of Weak-Contradiction: Definition and Measures. IEEE Transactions on Fuzzy Systems, 2015, 23, 1057-1069.	9.8	15
156	Evolution in time of L-fuzzy context sequences. Information Sciences, 2016, 326, 202-214.	6.9	15
157	CMin-Integral: A Choquet-Like Aggregation Function Based on the Minimum t-Norm for Applications to Fuzzy Rule-Based Classification Systems. Advances in Intelligent Systems and Computing, 2018, , 83-95.	0.6	15
158	(S,N)-Implications on Bounded Lattices. Studies in Fuzziness and Soft Computing, 2013, , 101-124.	0.8	15
159	Interval Subsethood Measures with Respect to Uncertainty for the Interval-Valued Fuzzy Setting. International Journal of Computational Intelligence Systems, 2020, 13, 167.	2.7	15
160	A construction method of interval-valued Fuzzy Sets for image processing. , 2011, , .		14
161	Ordering finitely generated sets and finite interval-valued hesitant fuzzy sets. Information Sciences, 2015, 325, 375-392.	6.9	14
162	N-Reciprocity Property for Interval-Valued Fuzzy Relations with an Application to Group Decision Making Problems in Social Networks. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2017, 25, 43-72.	1.9	14

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163	Self-adapting weighted operators for multiscale gradient fusion. <i>Information Fusion</i> , 2018, 44, 136-146.	19.1	14
164	Using the Choquet Integral in the Pooling Layer in Deep Learning Networks. <i>Communications in Computer and Information Science</i> , 2018, , 144-154.	0.5	14
165	Multidimensional Fuzzy Sets. <i>IEEE Transactions on Fuzzy Systems</i> , 2021, 29, 2195-2208.	9.8	14
166	Towards interval uncertainty propagation control in bivariate aggregation processes and the introduction of width-limited interval-valued overlap functions. <i>Fuzzy Sets and Systems</i> , 2022, 441, 130-168.	2.7	14
167	Aggregation functions and contradictory information. <i>Fuzzy Sets and Systems</i> , 2012, 191, 41-61.	2.7	13
168	Internal Fusion Functions. <i>IEEE Transactions on Fuzzy Systems</i> , 2018, 26, 487-503.	9.8	13
169	A Characterization Theorem for t-Representable n-Dimensional Triangular Norms. <i>Advances in Intelligent and Soft Computing</i> , 2011, , 103-112.	0.2	13
170	PERTURBATION OF INTUITIONISTIC FUZZY RELATIONS. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2001, 09, 81-103.	1.9	12
171	Consensus image method for unknown noise removal. <i>Knowledge-Based Systems</i> , 2014, 70, 64-77.	7.1	12
172	Twofold consensus for boundary detection ground truth. <i>Knowledge-Based Systems</i> , 2016, 98, 162-171.	7.1	12
173	New measures for comparing matrices and their application to image processing. <i>Applied Mathematical Modelling</i> , 2018, 61, 498-520.	4.2	12
174	Width-Based Interval-Valued Distances and Fuzzy Entropies. <i>IEEE Access</i> , 2019, 7, 14044-14057.	4.2	12
175	Mixture functions and their monotonicity. <i>Information Sciences</i> , 2019, 481, 520-549.	6.9	12
176	An IVFS-based image segmentation methodology for rat gait analysis. <i>Soft Computing</i> , 2011, 15, 1937-1944.	3.6	11
177	Segmentation of color images using a linguistic 2-tuples model. <i>Information Sciences</i> , 2014, 258, 339-352.	6.9	11
178	Analyzing the performance of different fuzzy measures with generalizations of the Choquet integral in classification problems. , 2019, , .		11
179	Some Averaging Functions in Image Reduction. <i>Lecture Notes in Computer Science</i> , 2010, , 399-408.	1.3	11
180	Image Thresholding Computation Using Atanassova's Intuitionistic Fuzzy Sets. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , 2007, 11, 187-194.	0.9	11

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181	Replacing pooling functions in Convolutional Neural Networks by linear combinations of increasing functions. <i>Neural Networks</i> , 2022, 152, 380-393.	5.9	11
182	Construction of Interval Type 2 Fuzzy Images to Represent Images in Grayscale. <i>False Edges. IEEE International Conference on Fuzzy Systems</i> , 2007, , .	0.0	10
183	Baddeley's Delta metric for local contrast computation in hyperspectral imagery. <i>Progress in Artificial Intelligence</i> , 2017, 6, 121-132.	2.4	10
184	From quantitative to qualitative orness for lattice OWA operators. <i>International Journal of General Systems</i> , 2017, 46, 640-669.	2.5	10
185	Similarity measures, penalty functions, and fuzzy entropy from new fuzzy subethood measures. <i>International Journal of Intelligent Systems</i> , 2019, 34, 1281-1302.	5.7	10
186	Generalizing the GMC-RTOPSIS Method using CT-integral Pre-aggregation Functions. , 2020, , .		10
187	NEW RESULTS ON PRE-AGGREGATION FUNCTIONS. , 2016, , .		10
188	On Additive Generators of Grouping Functions. <i>Communications in Computer and Information Science</i> , 2014, , 252-261.	0.5	10
189	Construction of interval-valued fuzzy entropy invariant by translations and scalings. <i>Soft Computing</i> , 2010, 14, 945-952.	3.6	9
190	Optical images-based edge detection in Synthetic Aperture Radar images. <i>Knowledge-Based Systems</i> , 2015, 87, 38-46.	7.1	9
191	$\hat{\Gamma}$ -Fuzzy Associative Memories ($\hat{\Gamma}$ -FAMs). <i>IEEE Transactions on Fuzzy Systems</i> , 2015, , 1-1.	9.8	9
192	The Notion of Pre-aggregation Function. <i>Lecture Notes in Computer Science</i> , 2015, , 33-41.	1.3	9
193	Equivalence measures for Atanassov intuitionistic fuzzy setting used to algorithm of image processing. , 2019, , .		9
194	On D-implications derived by grouping functions. , 2019, , .		9
195	A Generalization of the Choquet Integral Defined in Terms of the Möbius Transform. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 2313-2319.	9.8	9
196	A t-Norm Based Approach to Edge Detection. <i>Lecture Notes in Computer Science</i> , 2009, , 302-309.	1.3	9
197	New trends on the permutability equation. <i>Aequationes Mathematicae</i> , 2014, 88, 211-232.	0.8	8
198	A preliminary study on fingerprint classification using fuzzy rule-based classification systems. , 2014, , .		8

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199	Linking Mathematical Morphology and L-Fuzzy Concepts. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2017, 25, 73-98.	1.9	8
200	Moderate deviation and restricted equivalence functions for measuring similarity between data. Information Sciences, 2019, 501, 19-29.	6.9	8
201	Unsupervised Fuzzy Measure Learning for Classifier Ensembles From Coalitions Performance. IEEE Access, 2020, 8, 52288-52305.	4.2	8
202	Aggregation functions on n-dimensional ordered vectors equipped with an admissible order and an application in multi-criteria group decision-making. International Journal of Approximate Reasoning, 2021, 137, 34-50.	3.3	8
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