

Humberto Bustince

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371
papers

12,164
citations

58
h-index

103
g-index

410
ext. papers

14,700
ext. citations

4.4
avg, IF

6.77
L-index

#	Paper	IF	Citations
371	A Review on Ensembles for the Class Imbalance Problem: Bagging-, Boosting-, and Hybrid-Based Approaches. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012 , 42, 463-484		1372
370	Vague sets are intuitionistic fuzzy sets. <i>Fuzzy Sets and Systems</i> , 1996 , 79, 403-405	3.7	604
369	Entropy on intuitionistic fuzzy sets and on interval-valued fuzzy sets. <i>Fuzzy Sets and Systems</i> , 1996 , 78, 305-316	3.7	488
368	An overview of ensemble methods for binary classifiers in multi-class problems: Experimental study on one-vs-one and one-vs-all schemes. <i>Pattern Recognition</i> , 2011 , 44, 1761-1776	7.7	465
367	A Historical Account of Types of Fuzzy Sets and Their Relationships. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 179-194	8.3	285
366	Correlation of interval-valued intuitionistic fuzzy sets. <i>Fuzzy Sets and Systems</i> , 1995 , 74, 237-244	3.7	282
365	Generation of linear orders for intervals by means of aggregation functions. <i>Fuzzy Sets and Systems</i> , 2013 , 220, 69-77	3.7	215
364	Automorphisms, negations and implication operators. <i>Fuzzy Sets and Systems</i> , 2003 , 134, 209-229	3.7	206
363	On averaging operators for Atanassov's intuitionistic fuzzy sets. <i>Information Sciences</i> , 2011 , 181, 1116-1124	3.7	204
362	Indicator of inclusion grade for interval-valued fuzzy sets. Application to approximate reasoning based on interval-valued fuzzy sets. <i>International Journal of Approximate Reasoning</i> , 2000 , 23, 137-209	3.6	178
361	A position and perspective analysis of hesitant fuzzy sets on information fusion in decision making. Towards high quality progress. <i>Information Fusion</i> , 2016 , 29, 89-97	16.7	177
360	Interval-valued fuzzy sets constructed from matrices: Application to edge detection. <i>Fuzzy Sets and Systems</i> , 2009 , 160, 1819-1840	3.7	176
359	Overlap functions. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2010 , 72, 1488-1499	1.3	160
358	Structures on intuitionistic fuzzy relations. <i>Fuzzy Sets and Systems</i> , 1996 , 78, 293-303	3.7	154
357	Grouping, Overlap, and Generalized Bientropic Functions for Fuzzy Modeling of Pairwise Comparisons. <i>IEEE Transactions on Fuzzy Systems</i> , 2012 , 20, 405-415	8.3	150
356	A New Approach to Interval-Valued Choquet Integrals and the Problem of Ordering in Interval-Valued Fuzzy Set Applications. <i>IEEE Transactions on Fuzzy Systems</i> , 2013 , 21, 1150-1162	8.3	144
355	Image thresholding using restricted equivalence functions and maximizing the measures of similarity. <i>Fuzzy Sets and Systems</i> , 2007 , 158, 496-516	3.7	135

354	Restricted equivalence functions. <i>Fuzzy Sets and Systems</i> , 2006 , 157, 2333-2346	3.7	129
353	Aggregation functions for typical hesitant fuzzy elements and the action of automorphisms. <i>Information Sciences</i> , 2014 , 255, 82-99	7.7	128
352	Construction of fuzzy indices from fuzzy DI-subsethood measures: Application to the global comparison of images. <i>Information Sciences</i> , 2007 , 177, 906-929	7.7	115
351	Relationship between restricted dissimilarity functions, restricted equivalence functions and normal EN-functions: Image thresholding invariant. <i>Pattern Recognition Letters</i> , 2008 , 29, 525-536	4.7	112
350	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	8.3	105
349	Quantitative error measures for edge detection. <i>Pattern Recognition</i> , 2013 , 46, 1125-1139	7.7	105
348	On the relevance of some families of fuzzy sets. <i>Fuzzy Sets and Systems</i> , 2007 , 158, 2429-2442	3.7	103
347	Preaggregation Functions: Construction and an Application. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 260-272	8.3	102
346	New results on overlap and grouping functions. <i>Information Sciences</i> , 2013 , 249, 148-170	7.7	102
345	. <i>IEEE Transactions on Fuzzy Systems</i> , 2015 , 23, 973-990	8.3	101
344	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	3.6	99
343	New method to assess barley nitrogen nutrition status based on image colour analysis. <i>Computers and Electronics in Agriculture</i> , 2009 , 65, 213-218	6.5	98
342	Mathematical analysis of interval-valued fuzzy relations: Application to approximate reasoning. <i>Fuzzy Sets and Systems</i> , 2000 , 113, 205-219	3.7	97
341	Intuitionistic fuzzy generators Application to intuitionistic fuzzy complementation. <i>Fuzzy Sets and Systems</i> , 2000 , 114, 485-504	3.7	96
340	Medical diagnosis of cardiovascular diseases using an interval-valued fuzzy rule-based classification system. <i>Applied Soft Computing Journal</i> , 2014 , 20, 103-111	7.5	95
339	Some properties of overlap and grouping functions and their application to image thresholding. <i>Fuzzy Sets and Systems</i> , 2013 , 229, 69-90	3.7	95
338	Directional monotonicity of fusion functions. <i>European Journal of Operational Research</i> , 2015 , 244, 300-308	3.7	92
337	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	8.3	92

- 336 Definition and construction of fuzzy DI-subsethood measures. *Information Sciences*, **2006**, 176, 3190-3231.7 91
- 335 Improving the performance of fuzzy rule-based classification systems with interval-valued fuzzy sets and genetic amplitude tuning. *Information Sciences*, **2010**, 180, 3674-3685 7.7 90
- 334 CC-integrals: Choquet-like Copula-based aggregation functions and its application in fuzzy rule-based classification systems. *Knowledge-Based Systems*, **2017**, 119, 32-43 7.3 88
- 333 A survey on fingerprint minutiae-based local matching for verification and identification: Taxonomy and experimental evaluation. *Information Sciences*, **2015**, 315, 67-87 7.7 82
- 332 Construction of interval-valued fuzzy preference relations from ignorance functions and fuzzy preference relations. Application to decision making. *Knowledge-Based Systems*, **2014**, 58, 33-44 7.3 79
- 331 Construction of Interval-Valued Fuzzy Relations With Application to the Generation of Fuzzy Edge Images. *IEEE Transactions on Fuzzy Systems*, **2011**, 19, 819-830 8.3 79
- 330 Construction of intuitionistic fuzzy relations with predetermined properties. *Fuzzy Sets and Systems*, **2000**, 109, 379-403 3.7 78
- 329 Ignorance functions. An application to the calculation of the threshold in prostate ultrasound images. *Fuzzy Sets and Systems*, **2010**, 161, 20-36 3.7 76
- 328 Dynamic classifier selection for One-vs-One strategy: Avoiding non-competent classifiers. *Pattern Recognition*, **2013**, 46, 3412-3424 7.7 75
- 327 CF-integrals: A new family of pre-aggregation functions with application to fuzzy rule-based classification systems. *Information Sciences*, **2018**, 435, 94-110 7.7 74
- 326 On additive generators of overlap functions. *Fuzzy Sets and Systems*, **2016**, 287, 76-96 3.7 72
- 325 Migrativity of aggregation functions. *Fuzzy Sets and Systems*, **2009**, 160, 766-777 3.7 71
- 324 A gravitational approach to edge detection based on triangular norms. *Pattern Recognition*, **2010**, 43, 3730-3741 7.7 71
- 323 Generation of interval-valued fuzzy and atanassov's intuitionistic fuzzy connectives from fuzzy connectives and from K_B operators: Laws for conjunctions and disjunctions, amplitude. *International Journal of Intelligent Systems*, **2008**, 23, 680-714 8.4 71
- 322 Uncertainties with Atanassov's intuitionistic fuzzy sets: Fuzziness and lack of knowledge. *Information Sciences*, **2013**, 228, 61-74 7.7 70
- 321 QL-operations and QL-implication functions constructed from tuples (O,G,N) and the generation of fuzzy subsethood and entropy measures. *International Journal of Approximate Reasoning*, **2017**, 82, 170-192 3.6 67
- 320 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. *Information Sciences*, **2016**, 332, 94-114 7.7 67
- 319 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 8.3 66

318	Construction of admissible linear orders for interval-valued Atanassov intuitionistic fuzzy sets with an application to decision making. <i>Information Fusion</i> , 2016 , 27, 189-197	16.7	64
317	Construction theorems for intuitionistic fuzzy sets. <i>Fuzzy Sets and Systems</i> , 1996 , 84, 271-281	3.7	64
316	n-Dimensional overlap functions. <i>Fuzzy Sets and Systems</i> , 2016 , 287, 57-75	3.7	64
315	Multiscale edge detection based on Gaussian smoothing and edge tracking. <i>Knowledge-Based Systems</i> , 2013 , 44, 101-111	7.3	63
314	Interval-valued fuzzy sets applied to stereo matching of color images. <i>IEEE Transactions on Image Processing</i> , 2011 , 20, 1949-61	8.7	61
313	Consensus in multi-expert decision making problems using penalty functions defined over a Cartesian product of lattices. <i>Information Fusion</i> , 2014 , 17, 56-64	16.7	57
312	A class of fuzzy multisets with a fixed number of memberships. <i>Information Sciences</i> , 2012 , 189, 1-17	7.7	56
311	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	3.6	56
310	Ordering-based pruning for improving the performance of ensembles of classifiers in the framework of imbalanced datasets. <i>Information Sciences</i> , 2016 , 354, 178-196	7.7	55
309	Aggregation for Atanassov Intuitionistic and Interval Valued Fuzzy Sets: The Median Operator. <i>IEEE Transactions on Fuzzy Systems</i> , 2012 , 20, 487-498	8.3	55
308	Image segmentation using Atanassov intuitionistic fuzzy sets. <i>Expert Systems With Applications</i> , 2013 , 40, 15-26	7.8	55
307	A review of the relationships between implication, negation and aggregation functions from the point of view of material implication. <i>Information Sciences</i> , 2016 , 329, 357-380	7.7	54
306	Solving multi-class problems with linguistic fuzzy rule based classification systems based on pairwise learning and preference relations. <i>Fuzzy Sets and Systems</i> , 2010 , 161, 3064-3080	3.7	53
305	Construction of image reduction operators using averaging aggregation functions. <i>Fuzzy Sets and Systems</i> , 2015 , 261, 87-111	3.7	52
304	A generalization of the migrativity property of aggregation functions. <i>Information Sciences</i> , 2012 , 191, 76-85	7.7	51
303	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	16.7	48
302	Using the Choquet Integral in the Fuzzy Reasoning Method of Fuzzy Rule-Based Classification Systems. <i>Axioms</i> , 2013 , 2, 208-223	1.6	47
301	A class of aggregation functions encompassing two-dimensional OWA operators. <i>Information Sciences</i> , 2010 , 180, 1977-1989	7.7	47

300	On the Emigrativity of semicopulas, quasi-copulas, and copulas. <i>Information Sciences</i> , 2010 , 180, 1967-1976	7.7	47
299	Decision making with an interval-valued fuzzy preference relation and admissible orders. <i>Applied Soft Computing Journal</i> , 2015 , 35, 792-801	7.5	45
298	An alternative to fuzzy methods in decision-making problems. <i>Expert Systems With Applications</i> , 2012 , 39, 7729-7735	7.8	43
297	Image reduction using means on discrete product lattices. <i>IEEE Transactions on Image Processing</i> , 2012 , 21, 1070-83	8.7	42
296	On the definition of penalty functions in data aggregation. <i>Fuzzy Sets and Systems</i> , 2017 , 323, 1-18	3.7	42
295	A survey of fingerprint classification Part I: Taxonomies on feature extraction methods and learning models. <i>Knowledge-Based Systems</i> , 2015 , 81, 76-97	7.3	42
294	Consensus via penalty functions for decision making in ensembles in fuzzy rule-based classification systems. <i>Applied Soft Computing Journal</i> , 2018 , 67, 728-740	7.5	40
293	An entropy measure definition for finite interval-valued hesitant fuzzy sets. <i>Knowledge-Based Systems</i> , 2015 , 84, 121-133	7.3	39
292	Improving the Performance of Fuzzy Rule-Based Classification Systems Based on a Nonaveraging Generalization of CC-Integrals Named $C_{\{F_1, F_2\}}$ -Integrals. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 124-134	8.3	39
291	Dynamic ensemble selection for multi-class classification with one-class classifiers. <i>Pattern Recognition</i> , 2018 , 83, 34-51	7.7	38
290	Automatic histogram threshold using fuzzy measures. <i>IEEE Transactions on Image Processing</i> , 2010 , 19, 199-204	8.7	37
289	CHI-BD: A fuzzy rule-based classification system for Big Data classification problems. <i>Fuzzy Sets and Systems</i> , 2018 , 348, 75-101	3.7	36
288	Evolutionary undersampling for extremely imbalanced big data classification under apache spark 2016 ,		36
287	Semiautoduality in a restricted family of aggregation operators. <i>Fuzzy Sets and Systems</i> , 2007 , 158, 1360-1377	3.7	36
286	Interval-valued implications and interval-valued strong equality index with admissible orders. <i>International Journal of Approximate Reasoning</i> , 2017 , 88, 91-109	3.6	35
285	Interval-valued Fuzzy Sets in Soft Computing. <i>International Journal of Computational Intelligence Systems</i> , 2010 , 3, 215-222	3.4	34
284	Image magnification using interval information. <i>IEEE Transactions on Image Processing</i> , 2011 , 20, 3112-337	3.7	34
283	Capacities and overlap indexes with an application in fuzzy rule-based classification systems. <i>Fuzzy Sets and Systems</i> , 2016 , 305, 70-94	3.7	33

282	Typical Hesitant Fuzzy Negations. <i>International Journal of Intelligent Systems</i> , 2014 , 29, 525-543	8.4	32
281	Generalization of the weighted voting method using penalty functions constructed via faithful restricted dissimilarity functions. <i>European Journal of Operational Research</i> , 2013 , 225, 472-478	5.6	32
280	Generalized CF1F2-integrals: From Choquet-like aggregation to ordered directionally monotone functions. <i>Fuzzy Sets and Systems</i> , 2020 , 378, 44-67	3.7	32
279	An algorithm for group decision making using n-dimensional fuzzy sets, admissible orders and OWA operators. <i>Information Fusion</i> , 2017 , 37, 126-131	16.7	31
278	A survey of fingerprint classification Part II: Experimental analysis and ensemble proposal. <i>Knowledge-Based Systems</i> , 2015 , 81, 98-116	7.3	31
277	General overlap functions. <i>Fuzzy Sets and Systems</i> , 2019 , 372, 81-96	3.7	30
276	Ordered Directionally Monotone Functions: Justification and Application. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 2237-2250	8.3	30
275	Generating fuzzy edge images from gradient magnitudes. <i>Computer Vision and Image Understanding</i> , 2011 , 115, 1571-1580	4.3	29
274	Interval-Valued Atanassov Intuitionistic OWA Aggregations Using Admissible Linear Orders and Their Application to Decision Making. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 1586-1597	8.3	29
273	Fusion functions based discrete Choquet-like integrals. <i>European Journal of Operational Research</i> , 2016 , 252, 601-609	5.6	28
272	On the impact of anisotropic diffusion on edge detection. <i>Pattern Recognition</i> , 2014 , 47, 270-281	7.7	28
271	Comment on: Image thresholding using type II fuzzy sets Importance of this method. <i>Pattern Recognition</i> , 2010 , 43, 3188-3192	7.7	28
270	. <i>IEEE Computational Intelligence Magazine</i> , 2019 , 14, 96-106	5.6	28
269	General interval-valued overlap functions and interval-valued overlap indices. <i>Information Sciences</i> , 2020 , 527, 27-50	7.7	27
268	Negations With Respect to Admissible Orders in the Interval-Valued Fuzzy Set Theory. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 556-568	8.3	27
267	IIVFDT: IGNORANCE FUNCTIONS BASED INTERVAL-VALUED FUZZY DECISION TREE WITH GENETIC TUNING. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2012 , 20, 1-30	0.8	26
266	The law of O-conditionality for fuzzy implications constructed from overlap and grouping functions. <i>International Journal of Approximate Reasoning</i> , 2019 , 105, 27-48	3.6	26
265	Forest fire detection: A fuzzy system approach based on overlap indices. <i>Applied Soft Computing Journal</i> , 2017 , 52, 834-842	7.5	25

264	A construction method of Atanassov's intuitionistic fuzzy sets for image processing 2010 ,		24
263	INTUITIONISTIC FUZZY IMPLICATION OPERATORS IN AN EXPRESSION AND MAIN PROPERTIES. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2004 , 12, 387-406	0.8	24
262	Construction of strong equality index from implication operators. <i>Fuzzy Sets and Systems</i> , 2013 , 211, 15-33	3.7	23
261	Similarity between interval-valued fuzzy sets taking into account the width of the intervals and admissible orders. <i>Fuzzy Sets and Systems</i> , 2020 , 390, 23-47	3.7	23
260	. <i>IEEE Transactions on Fuzzy Systems</i> , 2015 , 23, 1519-1533	8.3	22
259	Evolutionary undersampling for imbalanced big data classification 2015 ,		22
258	Bimigrativity of binary aggregation functions. <i>Information Sciences</i> , 2014 , 274, 225-235	7.7	22
257	Composition of interval-valued fuzzy relations using aggregation functions. <i>Information Sciences</i> , 2016 , 369, 690-703	7.7	22
256	Applications of finite interval-valued hesitant fuzzy preference relations in group decision making. <i>Information Sciences</i> , 2016 , 326, 89-101	7.7	21
255	GENERALIZED ATANASSOV'S INTUITIONISTIC FUZZY INDEX: CONSTRUCTION OF ATANASSOV'S FUZZY ENTROPY FROM FUZZY IMPLICATION OPERATORS. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2011 , 19, 51-69	0.8	21
254	Paired structures in knowledge representation. <i>Knowledge-Based Systems</i> , 2016 , 100, 50-58	7.3	19
253	Intuitionistic fuzzy integrals based on Archimedean t-conorms and t-norms. <i>Information Sciences</i> , 2016 , 327, 57-70	7.7	19
252	From Fuzzy Sets to Interval-Valued and Atanassov Intuitionistic Fuzzy Sets: A Unified View of Different Axiomatic Measures. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 362-371	8.3	19
251	A cohesion-driven consensus reaching process for large scale group decision making under a hesitant fuzzy linguistic term sets environment. <i>Computers and Industrial Engineering</i> , 2021 , 155, 107158 ^{6.4}		19
250	A Survey of Interval-Valued Fuzzy Sets 489-515		18
249	WEAK FUZZY S-SUBSETHOOD MEASURES: OVERLAP INDEX. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2006 , 14, 537-560	0.8	18
248	. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 163-177	8.3	18
247	The median and its extensions. <i>Fuzzy Sets and Systems</i> , 2011 , 175, 36-47	3.7	17

246	Quantitative orness for lattice OWA operators. <i>Information Fusion</i> , 2016 , 30, 27-35	16.7	16
245	A proposal for tuning the (alpha) parameter in (C_{alpha }C)-integrals for application in fuzzy rule-based classification systems. <i>Natural Computing</i> , 2020 , 19, 533-546	1.3	16
244	Separability Criteria for the Evaluation of Boundary Detection Benchmarks. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 1047-55	8.7	15
243	. <i>IEEE Transactions on Fuzzy Systems</i> , 2015 , 23, 1259-1273	8.3	15
242	Contrast of a fuzzy relation. <i>Information Sciences</i> , 2010 , 180, 1326-1344	7.7	15
241	NMC: nearest matrix classification A new combination model for pruning One-vs-One ensembles by transforming the aggregation problem. <i>Information Fusion</i> , 2017 , 36, 26-51	16.7	14
240	Evolution in time of L-fuzzy context sequences. <i>Information Sciences</i> , 2016 , 326, 202-214	7.7	14
239	Strengthened ordered directionally monotone functions. Links between the different notions of monotonicity. <i>Fuzzy Sets and Systems</i> , 2019 , 357, 151-172	3.7	14
238	2015 ,		14
237	Interval-valued fuzzy strong S-subsethood measures, interval-entropy and P-interval-entropy. <i>Information Sciences</i> , 2018 , 432, 97-115	7.7	14
236	Weak and directional monotonicity of functions on Riesz spaces to fuse uncertain data. <i>Fuzzy Sets and Systems</i> , 2020 , 386, 145-160	3.7	13
235	CHI-PG: A fast prototype generation algorithm for Big Data classification problems. <i>Neurocomputing</i> , 2018 , 287, 22-33	5.4	12
234	Application of two different methods for extending lattice-valued restricted equivalence functions used for constructing similarity measures on L-fuzzy sets. <i>Information Sciences</i> , 2018 , 441, 95-112	7.7	12
233	N-Reciprocity Property for Interval-Valued Fuzzy Relations with an Application to Group Decision Making Problems in Social Networks. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2017 , 25, 43-72	0.8	12
232	Type-2 fuzzy entropy sets. <i>IEEE Transactions on Fuzzy Systems</i> , 2017 , 25, 993-1005	8.3	12
231	. <i>IEEE Transactions on Fuzzy Systems</i> , 2015 , 23, 1057-1069	8.3	12
230	A construction method of interval-valued Fuzzy Sets for image processing 2011 ,		12
229	PERTURBATION OF INTUITIONISTIC FUZZY RELATIONS. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2001 , 09, 81-103	0.8	12

228	. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 1638-1647	8.3	12
227	. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 487-503	8.3	11
226	Segmentation of color images using a linguistic 2-tuples model. <i>Information Sciences</i> , 2014 , 258, 339-352	7.7	11
225	Ordering finitely generated sets and finite interval-valued hesitant fuzzy sets. <i>Information Sciences</i> , 2015 , 325, 375-392	7.7	10
224	Self-adapting weighted operators for multiscale gradient fusion. <i>Information Fusion</i> , 2018 , 44, 136-146	16.7	10
223	New measures of homogeneity for image processing: an application to fingerprint segmentation. <i>Soft Computing</i> , 2014 , 18, 1055-1066	3.5	10
222	Consensus image method for unknown noise removal. <i>Knowledge-Based Systems</i> , 2014 , 70, 64-77	7.3	10
221	Aggregation functions to combine RGB color channels in stereo matching. <i>Optics Express</i> , 2013 , 21, 12473-12487	3.5	10
220	An IVFS-based image segmentation methodology for rat gait analysis. <i>Soft Computing</i> , 2011 , 15, 1937-1944	3.4	10
219	Image Thresholding Computation Using Atanassov's Intuitionistic Fuzzy Sets. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , 2007 , 11, 187-194	0.4	10
218	A wrapper methodology to learn interval-valued fuzzy rule-based classification systems. <i>Applied Soft Computing Journal</i> , 2021 , 104, 107249	7.5	10
217	Mixture functions and their monotonicity. <i>Information Sciences</i> , 2019 , 481, 520-549	7.7	10
216	Convolution lattices. <i>Fuzzy Sets and Systems</i> , 2018 , 335, 67-93	3.7	9
215	An interval extension of homogeneous and pseudo-homogeneous t-norms and t-conorms. <i>Information Sciences</i> , 2016 , 355-356, 328-347	7.7	9
214	A framework for edge detection based on relief functions. <i>Information Sciences</i> , 2014 , 278, 127-140	7.7	9
213	Construction of interval-valued fuzzy entropy invariant by translations and scalings. <i>Soft Computing</i> , 2010 , 14, 945-952	3.5	9
212	Construction of Interval Type 2 Fuzzy Images to Represent Images in Grayscale. False Edges. <i>IEEE International Conference on Fuzzy Systems</i> , 2007 ,		9
211	(S,N)-Implications on Bounded Lattices. <i>Studies in Fuzziness and Soft Computing</i> , 2013 , 101-124	0.7	9

210	On Additive Generators of Grouping Functions. <i>Communications in Computer and Information Science</i> , 2014 , 252-261	0.3	9
209	d-Choquet integrals: Choquet integrals based on dissimilarities. <i>Fuzzy Sets and Systems</i> , 2021 , 414, 1-27	3.7	9
208	New measures for comparing matrices and their application to image processing. <i>Applied Mathematical Modelling</i> , 2018 , 61, 498-520	4.5	9
207	Using the Choquet Integral in the Pooling Layer in Deep Learning Networks. <i>Communications in Computer and Information Science</i> , 2018 , 144-154	0.3	9
206	Baddeley's Delta metric for local contrast computation in hyperspectral imagery. <i>Progress in Artificial Intelligence</i> , 2017 , 6, 121-132	4	8
205	New trends on the permutability equation. <i>Aequationes Mathematicae</i> , 2014 , 88, 211-232	0.7	8
204	Some Averaging Functions in Image Reduction. <i>Lecture Notes in Computer Science</i> , 2010 , 399-408	0.9	8
203	A Characterization Theorem for t-Representable n-Dimensional Triangular Norms. <i>Advances in Intelligent and Soft Computing</i> , 2011 , 103-112		8
202	Sugeno integral generalization applied to improve adaptive image binarization. <i>Information Fusion</i> , 2021 , 68, 37-45	16.7	8
201	From quantitative to qualitative orness for lattice OWA operators. <i>International Journal of General Systems</i> , 2017 , 46, 640-669	2.1	7
200	Twofold consensus for boundary detection ground truth. <i>Knowledge-Based Systems</i> , 2016 , 98, 162-171	7.3	7
199	Optical images-based edge detection in Synthetic Aperture Radar images. <i>Knowledge-Based Systems</i> , 2015 , 87, 38-46	7.3	7
198	Aggregation functions and contradictory information. <i>Fuzzy Sets and Systems</i> , 2012 , 191, 41-61	3.7	7
197	NEW RESULTS ON PRE-AGGREGATION FUNCTIONS 2016 ,		7
196	Interval Subsethood Measures with Respect to Uncertainty for the Interval-Valued Fuzzy Setting. <i>International Journal of Computational Intelligence Systems</i> , 2020 , 13, 167	3.4	7
195	CMin-Integral: A Choquet-Like Aggregation Function Based on the Minimum t-Norm for Applications to Fuzzy Rule-Based Classification Systems. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 83-95	0.4	7
194	On some classes of directionally monotone functions. <i>Fuzzy Sets and Systems</i> , 2020 , 386, 161-178	3.7	7
193	Width-Based Interval-Valued Distances and Fuzzy Entropies. <i>IEEE Access</i> , 2019 , 7, 14044-14057	3.5	6

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