

Edurne Barrenechea

List of Publications by Year in Descending Order

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Version: 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105
papers

5,109
citations

33
h-index

71
g-index

120
ext. papers

6,047
ext. citations

4.4
avg, IF

5.68
L-index

#	Paper	IF	Citations
105	Ordered directional monotonicity in the construction of edge detectors. <i>Fuzzy Sets and Systems</i> , 2021 , 421, 111-132	3.7	2
104	Co-occurrence of deep convolutional features for image search. <i>Image and Vision Computing</i> , 2020 , 97, 103909	3.7	5
103	Learning ordered pooling weights in image classification. <i>Neurocomputing</i> , 2020 , 411, 45-53	5.4	3
102	. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 163-177	8.3	18
101	Similarity measures, penalty functions, and fuzzy entropy from new fuzzy subsethood measures. <i>International Journal of Intelligent Systems</i> , 2019 , 34, 1281-1302	8.4	5
100	Moderate deviation and restricted equivalence functions for measuring similarity between data. <i>Information Sciences</i> , 2019 , 501, 19-29	7.7	4
99	Combination of features through weighted ensembles for image classification. <i>Applied Soft Computing Journal</i> , 2019 , 84, 105698	7.5	0
98	Strengthened Ordered Directional and Other Generalizations of Monotonicity for Aggregation Functions. <i>Communications in Computer and Information Science</i> , 2018 , 416-426	0.3	0
97	Edge Detection Based on Ordered Directionally Monotone Functions. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 301-307	0.4	2
96	Interval-valued fuzzy strong S-subsethood measures, interval-entropy and P-interval-entropy. <i>Information Sciences</i> , 2018 , 432, 97-115	7.7	14
95	Ordered Directionally Monotone Functions: Justification and Application. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 2237-2250	8.3	30
94	A Study on the Cardinality of Ordered Average Pooling in Visual Recognition. <i>Lecture Notes in Computer Science</i> , 2017 , 437-444	0.9	2
93	NMC: nearest matrix classification I 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
92	OWA Operators and Choquet Integrals in the Interval-Valued Setting. <i>Studies in Fuzziness and Soft Computing</i> , 2017 , 65-79	0.7	1
91	Forest fire detection: A fuzzy system approach based on overlap indices. <i>Applied Soft Computing Journal</i> , 2017 , 52, 834-842	7.5	25
90	Use of OWA operators for feature aggregation in image classification 2017 ,		1
89	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

88	Unbalanced OWA Operators for Atanassov Intuitionistic Fuzzy Sets. <i>Communications in Computer and Information Science</i> , 2016 , 435-444	0.3	
87	Unbalanced interval-valued OWA operators. <i>Progress in Artificial Intelligence</i> , 2016 , 5, 207-214	4	4
86	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
85	Paired structures in knowledge representation. <i>Knowledge-Based Systems</i> , 2016 , 100, 50-58	7.3	19
84	Lamb muscle discrimination using hyperspectral imaging: Comparison of various machine learning algorithms. <i>Journal of Food Engineering</i> , 2016 , 174, 92-100	6	36
83	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
82	The Notions of Overlap and Grouping Functions. <i>Studies in Fuzziness and Soft Computing</i> , 2016 , 137-156	0.7	4
81	On the Use of Lattice OWA Operators in Image Reduction and the Importance of the Orness Measure. <i>Communications in Computer and Information Science</i> , 2016 , 624-634	0.3	1
80	Semi-properties of Atanassov Intuitionistic Fuzzy Relations. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 137-147	0.4	
79	New Ordering-Based Pruning Metrics for Ensembles of Classifiers in Imbalanced Datasets. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 3-15	0.4	1
78	n-Dimensional overlap functions. <i>Fuzzy Sets and Systems</i> , 2016 , 287, 57-75	3.7	64
77	A Survey of Atanassov Intuitionistic Fuzzy Relations. <i>Studies in Fuzziness and Soft Computing</i> , 2016 , 65-78.	7.7	1
76	A survey of fingerprint classification Part II: Experimental analysis and ensemble proposal. <i>Knowledge-Based Systems</i> , 2015 , 81, 98-116	7.3	31
75	A survey on fingerprint minutiae-based local matching for verification and identification: Taxonomy and experimental evaluation. <i>Information Sciences</i> , 2015 , 315, 67-87	7.7	82
74	Generation of Interval-Valued Fuzzy Negations from Trillas Theorem. The Case of Interval Type-2 Fuzzy Sets. <i>Studies in Fuzziness and Soft Computing</i> , 2015 , 93-108	0.7	0
73	Interval Type-2 Fuzzy Sets are Generalization of Interval-Valued Fuzzy Sets: Toward a Wider View on Their Relationship. <i>IEEE Transactions on Fuzzy Systems</i> , 2015 , 23, 1876-1882	8.3	102
72	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
71	DRCW-OVO: Distance-based relative competence weighting combination for One-vs-One strategy in multi-class problems. <i>Pattern Recognition</i> , 2015 , 48, 28-42	7.7	61

70	The Origin of Fuzzy Extensions 2015 , 89-112		4
69	Optical images-based edge detection in Synthetic Aperture Radar images. <i>Knowledge-Based Systems</i> , 2015 , 87, 38-46	7.3	7
68	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
67	From Trillas's Negations and Antonyms to a Set Representation of Contradiction Within Bipolar and Other Extensions of Fuzzy Sets. <i>Studies in Fuzziness and Soft Computing</i> , 2015 , 159-177	0.7	
66	Segmentation of color images using a linguistic 2-tuples model. <i>Information Sciences</i> , 2014 , 258, 339-352	7.7	11
65	University-industry collaboration chairs: Initiatives at the Public University of Navarre 2014 ,		1
64	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	7.3	79
63	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
62	Empowering difficult classes with a similarity-based aggregation in multi-class classification problems. <i>Information Sciences</i> , 2014 , 264, 135-157	7.7	26
61	Engineering international programs at the public university of Navarre: A satisfactory on-going experience in a context of industrial globalization 2014 ,		1
60	Analysis of women enrollment in Engineering programs at the Public University of Navarre 2014 ,		3
59	Neutrality in Bipolar Structures. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 11-17	0.4	
58	Clustering Based on a Mixture of Fuzzy Models Approach. <i>Communications in Computer and Information Science</i> , 2014 , 475-484	0.3	
57	Improving the Performance of FARC-HD in Multi-class Classification Problems Using the One-Versus-One Strategy and an Adaptation of the Inference System. <i>Communications in Computer and Information Science</i> , 2014 , 296-306	0.3	
56	Multiscale edge detection based on Gaussian smoothing and edge tracking. <i>Knowledge-Based Systems</i> , 2013 , 44, 101-111	7.3	63
55	Engineering outreach programs at the Public University of Navarre: A holistic approach 2013 ,		3
54	Image segmentation using Atanassov's intuitionistic fuzzy sets. <i>Expert Systems With Applications</i> , 2013 , 40, 15-26	7.8	55
53	Dynamic classifier selection for One-vs-One strategy: Avoiding non-competent classifiers. <i>Pattern Recognition</i> , 2013 , 46, 3412-3424	7.7	75

52	Interval Type-2 Fuzzy Sets Constructed From Several Membership Functions: Application to the Fuzzy Thresholding Algorithm. <i>IEEE Transactions on Fuzzy Systems</i> , 2013 , 21, 230-244	8.3	66
51	EUSBoost: Enhancing ensembles for highly imbalanced data-sets by evolutionary undersampling. <i>Pattern Recognition</i> , 2013 , 46, 3460-3471	7.7	242
50	Construction of Interval Type-2 Fuzzy Sets From Fuzzy Sets: Methods and Applications. <i>Studies in Fuzziness and Soft Computing</i> , 2013 , 147-163	0.7	1
49	Topological interpretations of fuzzy subsets. A unified approach for fuzzy thresholding algorithms. <i>Knowledge-Based Systems</i> , 2013 , 54, 163-171	7.3	3
48	New results on overlap and grouping functions. <i>Information Sciences</i> , 2013 , 249, 148-170	7.7	102
47	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
46	Upper Bounding Overlaps by Groupings. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 355-365	0.4	
45	Decision Making with Extensions of Fuzzy Sets: An Application to Disaster Management. <i>Atlantis Computational Intelligence Systems</i> , 2013 , 189-207		
44	A Preliminary Study of the Usage of Similarity Measures to Detect Singular Points in Fingerprint Images. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 367-378	0.4	1
43	An alternative to fuzzy methods in decision-making problems. <i>Expert Systems With Applications</i> , 2012 , 39, 7729-7735	7.8	43
42	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
41	Multiscale edge detection based on the Sobel method 2011 ,		2
40	Multiscale Extension of the Gravitational Approach to Edge Detection. <i>Lecture Notes in Computer Science</i> , 2011 , 283-292	0.9	
39	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	8.3	79
38	Representing images by means of interval-valued fuzzy sets. Application to stereo matching 2011 ,		5
37	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
36	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
35	Construction of Interval-Valued Fuzzy Preference Relations Using Ignorance Functions: Interval-Valued Non Dominance Criterion. <i>Advances in Intelligent and Soft Computing</i> , 2011 , 243-255		5

34	Edge Detection on Interval-Valued Images. <i>Advances in Intelligent and Soft Computing</i> , 2011 , 325-337		4
33	Construction of interval-valued fuzzy entropy invariant by translations and scalings. <i>Soft Computing</i> , 2010 , 14, 945-952	3.5	9
32	Ignorance functions. An application to the calculation of the threshold in prostate ultrasound images. <i>Fuzzy Sets and Systems</i> , 2010 , 161, 20-36	3.7	76
31	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
30	Comment on: Image thresholding using type II fuzzy sets Importance of this method. <i>Pattern Recognition</i> , 2010 , 43, 3188-3192	7.7	28
29	Contrast of a fuzzy relation. <i>Information Sciences</i> , 2010 , 180, 1326-1344	7.7	15
28	The Need to Use Fuzzy Extensions in Fuzzy Thresholding Algorithms. <i>Studies in Fuzziness and Soft Computing</i> , 2010 , 219-235	0.7	
27	Aggregation of Color Information in Stereo Matching Problem: A Comparison Study. <i>Lecture Notes in Computer Science</i> , 2010 , 369-378	0.9	1
26	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
25	Interval-valued fuzzy sets constructed from matrices: Application to edge detection. <i>Fuzzy Sets and Systems</i> , 2009 , 160, 1819-1840	3.7	176
24	A A-IFSs Based Image Segmentation Methodology for Gait Analysis 2009 ,		1
23	Ignorance-Based Fuzzy Clustering Algorithm 2009 ,		1
22	A t-Norm Based Approach to Edge Detection. <i>Lecture Notes in Computer Science</i> , 2009 , 302-309	0.9	4
21	A Survey of Applications of the Extensions of Fuzzy Sets to Image Processing. <i>Studies in Computational Intelligence</i> , 2009 , 3-32	0.8	0
20	Uncertainty in multilevel image thresholding using Atanassov's intuitionistic fuzzy sets 2008 ,		5
19	Laws for conjunctions and disjunctions in interval type 2 fuzzy sets 2008 ,		2
18	Generation of interval-valued fuzzy and atanassov's intuitionistic fuzzy connectives from fuzzy connectives and from Kleene operators: Laws for conjunctions and disjunctions, amplitude. <i>International Journal of Intelligent Systems</i> , 2008 , 23, 680-714	8.4	71
17	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

16	CONTRAST COMPUTING USING ATANASSOV'S INTUITIONISTIC FUZZY SETS 2008 ,		2
15	A Method for Constructing V. Young's Fuzzy Subsethood Measures and Fuzzy Entropies. <i>Studies in Computational Intelligence</i> , 2008 , 123-138	0.8	
14	Image Threshold Computation by Modelizing Knowledge/Unknowledge by Means of Atanassov's Intuitionistic Fuzzy Sets 2008 , 621-638		1
13	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
12	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
11	Semiautoduality in a restricted family of aggregation operators. <i>Fuzzy Sets and Systems</i> , 2007 , 158, 1360-1377	3.7	36
10	Image Threshold Using A-IFSs Based on Bounded Histograms. <i>Lecture Notes in Computer Science</i> , 2007 , 96-103	0.9	1
9	Construction of Interval Type 2 Fuzzy Images to Represent Images in Grayscale. False Edges. <i>IEEE International Conference on Fuzzy Systems</i> , 2007 ,		9
8	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
7	A method for constructing V. Young's fuzzy subsethood measures and fuzzy entropies 2006 ,		2
6	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
5	Definition and construction of fuzzy DI-subsethood measures. <i>Information Sciences</i> , 2006 , 176, 3190-3231.	7.7	91
4	Restricted equivalence functions. <i>Fuzzy Sets and Systems</i> , 2006 , 157, 2333-2346	3.7	129
3	INTUITIONISTIC FUZZY IMPLICATION OPERATORS [AN EXPRESSION AND MAIN PROPERTIES. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2004 , 12, 387-406	0.8	24
2	A Survey of Interval-Valued Fuzzy Sets		18
1	Construction of Typical Hesitant Triangular Norms regarding Xu-Xia-partial Order		6