Jerry M Mendel

List of Publications by Year in Descending Order

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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.

118
papers7,511
citations34
h-index86
g-index125
ext. papers8,786
ext. citations6
avg, IF6.95
L-index

#	Paper	IF	Citations
118	On computing the similarity of trapezoidal fuzzy sets using an Automated Area Method. <i>Information Sciences</i> , 2022 , 589, 716-716	7:7	3
117	Fuzzy-System Kernel Machines: A Kernel Method Based on the Connections Between Fuzzy Inference Systems and Kernel Machines. <i>IEEE Transactions on Fuzzy Systems</i> , 2022 , 1-1	8.3	1
116	Non-singleton fuzzification made simpler. <i>Information Sciences</i> , 2021 , 559, 286-308	7.7	
115	A Comprehensive Study of the Efficiency of Type-Reduction Algorithms. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 29, 1556-1566	8.3	11
114	Towards Systematic Design of General Type-2 Fuzzy Logic Controllers: Analysis, Interpretation, and Tuning. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 29, 226-239	8.3	9
113	. IEEE Transactions on Fuzzy Systems, 2021 , 29, 199-202	8.3	
112	Critical Thinking About Explainable AI (XAI) for Rule-Based Fuzzy Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	6
111	. IEEE Transactions on Fuzzy Systems, 2020 , 28, 783-794	8.3	14
110	Person Footprint of Uncertainty-Based CWW Model for Power Optimization in Handheld Devices. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 558-568	8.3	5
109	. IEEE Transactions on Fuzzy Systems, 2020 , 28, 1996-2008	8.3	9
108	Comparing Performance Potentials of Classical and Intuitionistic Fuzzy Systems in Terms of Sculpting the State Space. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 2244-2254	8.3	4
107	Intuitionistic Fuzzy Hybrid Weighted Arithmetic Mean and Its Application in Decision Making. <i>International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems</i> , 2019 , 27, 353-373	0.8	5
106	Adaptive variable-structure basis function expansions: Candidates for machine learning. <i>Information Sciences</i> , 2019 , 496, 124-149	7.7	4
105	Similarity Measures for Closed General Type-2 Fuzzy Sets: Overview, Comparisons, and a Geometric Approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 515-526	8.3	31
104	. IEEE Transactions on Fuzzy Systems, 2019 , 27, 58-71	8.3	23
103	Recommendations on designing practical interval type-2 fuzzy systems. <i>Engineering Applications of Artificial Intelligence</i> , 2019 , 85, 182-193	7.2	53
102	Type-2 Fuzzy Sets as Well as Computing with Words. <i>IEEE Computational Intelligence Magazine</i> , 2019 , 14, 82-95	5.6	19

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101	Multicriteria decision making based on intuitionistic fuzzy prioritized arithmetic mean. <i>International Journal of Intelligent Systems</i> , 2018 , 33, 1412-1425	8.4	1
100	The Perceptual Computer: the Past, Up to the Present, and Into the Future. <i>Informatik-Spektrum</i> , 2018 , 41, 15-26	0.3	4
99	. IEEE Transactions on Fuzzy Systems, 2018, 26, 2362-2373	8.3	20
98	A new method for calibrating the fuzzy sets used in fsQCA. <i>Information Sciences</i> , 2018 , 468, 155-171	7.7	10
97	. IEEE Transactions on Fuzzy Systems, 2018, 26, 2311-2323	8.3	12
96	A Comment on A Direct Approach for Determining the Switch Points in the Karnik Mendel Algorithm II IEEE Transactions on Fuzzy Systems, 2018, 26, 3905-3907	8.3	10
95	Critique of A New Look at Type-2 Fuzzy Sets and Type-2 Fuzzy Logic Systems [IEEE Transactions on Fuzzy Systems, 2017, 25, 725-727	8.3	12
94	Uncertain Rule-Based Fuzzy Systems 2017 ,		219
93	Comments on Interval Type-2 Fuzzy Sets are Generalization of Interval-Valued Fuzzy Sets: Towards a Wide View on Their Relationship [IIEEE Transactions on Fuzzy Systems, 2016, 24, 249-250]	8.3	18
92	Fuzzy Opinion Networks: A Mathematical Framework for the Evolution of Opinions and Their Uncertainties Across Social Networks. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 880-905	8.3	22
91	A comparison of three approaches for estimating (synthesizing) an interval type-2 fuzzy set model of a linguistic term for computing with words. <i>Granular Computing</i> , 2016 , 1, 59-69	5.4	113
90	Encoding Words Into Normal Interval Type-2 Fuzzy Sets: HM Approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 865-879	8.3	32
89	On the justification to use a novel simplified interval type-2 fuzzy logic system. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015 , 28, 1071-1079	1.6	2
88	Type-2 Fuzzy Sets and Systems: a Retrospective. <i>Informatik-Spektrum</i> , 2015 , 38, 523-532	0.3	20
87	Advanced Computing with Words: Status and Challenges. <i>Studies in Fuzziness and Soft Computing</i> , 2015 , 217-245	0.7	5
86	Determining interval type-2 fuzzy set models for words using data collected from one subject: Person FOUs 2014 ,		8
85	Extension of set functions to Interval Type-2 Fuzzy Sets: Applications to evidential reasoning 2014 ,		1
84	2014,		3

83	2014,	64
82	On Computing Normalized Interval Type-2 Fuzzy Sets. <i>IEEE Transactions on Fuzzy Systems</i> , 2014 , 22, 133 % 153	40 15
81	Non-linear Variable Structure Regression (VSR) and its application in time-series forecasting 2014,	5
80	On Advanced Computing With Words Using the Generalized Extension Principle for Type-1 Fuzzy Sets. <i>IEEE Transactions on Fuzzy Systems</i> , 2014 , 22, 1245-1261	15
79	Simplified Interval Type-2 Fuzzy Logic Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2013 , 21, 1056-1069 8.3	138
78	Theoretical aspects of Fuzzy Set Qualitative Comparative Analysis (fsQCA). <i>Information Sciences</i> , 2013, 237, 137-161	50
77	Linguistic Weighted Standard Deviation 2013,	3
76	Modeling linguistic probabilities and linguistic quantifiers using interval type-2 fuzzy sets 2013 ,	7
75	. IEEE Transactions on Fuzzy Systems, 2013, 21, 426-446 8.3	135
74	Advanced computing with words using syllogistic reasoning and arithmetic operations on linguistic belief structures 2013 ,	10
73	Fuzzy Love Selection by means of Perceptual Computing 2013,	8
72	Charles Ragin Fuzzy Set Qualitative Comparative Analysis (fsQCA) used for linguistic summarizations. <i>Information Sciences</i> , 2012 , 202, 1-23	72
71	Enhanced Interval Approach for Encoding Words Into Interval Type-2 Fuzzy Sets and Its Convergence Analysis. <i>IEEE Transactions on Fuzzy Systems</i> , 2012 , 20, 499-513	131
70	New closed-form solutions for Karnik-Mendel algorithm+defuzzification of an interval type-2 fuzzy set 2012 ,	13
69	Lower and upper probability calculations using compatibility measures for solving Zadeh's challenge problems 2012 ,	7
68	Perceptual Computer application in Learning Outcome evaluation 2012,	4
67	Fast Fuzzy set Qualitative Comparative Analysis (Fast fsQCA) 2012,	7
66	Solving Zadeh's Swedes and Italians challenge problem 2012 ,	8

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65	Comment on Moward General Type-2 Fuzzy Logic Systems Based on zSlices [IEEE Transactions on Fuzzy Systems, 2012 , 20, 996-997	8.3	13
64	Fuzzy set Qualitative Comparative Analysis (fsQCA): Challenges and applications 2012,		10
63	Validation of Fuzzy set Qualitative Comparative Analysis (fsQCA): Granular description of a function 2012 ,		3
62	A new method for managing the uncertainties in evaluating multi-person multi-criteria location choices, using a perceptual computer. <i>Annals of Operations Research</i> , 2012 , 195, 277-309	3.2	28
61	UNIVERSAL IMAGE NOISE REMOVAL FILTER BASED ON TYPE-2 FUZZY LOGIC SYSTEM AND QPSO. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2012 , 20, 207-232	0.8	14
60	Enhanced centroid-flow algorithm for general type-2 fuzzy sets 2011 ,		3
59	On the Continuity of Type-1 and Interval Type-2 Fuzzy Logic Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2011 , 19, 179-192	8.3	86
58	Connect Karnik-Mendel Algorithms to Root-Finding for Computing the Centroid of an Interval Type-2 Fuzzy Set. <i>IEEE Transactions on Fuzzy Systems</i> , 2011 , 19, 652-665	8.3	60
57	Design of Novel Interval Type-2 Fuzzy Controllers for Modular and Reconfigurable Robots: Theory and Experiments. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 1371-1384	8.9	106
56	Computing the centroid of a general type-2 fuzzy set by means of the centroid-flow algorithm. <i>IEEE Transactions on Fuzzy Systems</i> , 2011 , 19, 401-422	8.3	57
55	A Non-Singleton Interval Type-2 Fuzzy Logic System for universal image noise removal using Quantum-behaved Particle Swarm Optimization 2011 ,		10
54	On the geometry of join and meet calculations for general type-2 fuzzy sets 2011 ,		6
53	Some extensions of the karnik-mendel algorithms for computing an interval type-2 fuzzy set centroid 2011 ,		5
52	Solving Zadeh's Magnus challenge problem on linguistic probabilities via Linguistic Weighted Averages 2011 ,		13
51	A quantitative comparison of interval type-2 and type-1 fuzzy logic systems: First results 2010,		27
50	Enhanced Interval Approach for encoding words into interval type-2 fuzzy sets and convergence of the word FOUs 2010 ,		21
49	Robustness of interval type-2 fuzzy logic systems 2010 ,		6
48	Evaluating location choices using Perceptual Computer approach 2010 ,		5

47	Foreword to the Special Section on Computing With Words. <i>IEEE Transactions on Fuzzy Systems</i> , 2010 , 18, 437-440	8.3	20
46	Examining the continuity of type-1 and interval type-2 fuzzy logic systems 2010 ,		3
45	Centroid of a general type-2 fuzzy set computed by means of the centroid-flow algorithm 2010,		18
44	On the stability of interval type-2 TSK fuzzy logic control systems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2010 , 40, 798-818		206
43	Comments on "\$alpha\$ -Plane Representation for Type-2 Fuzzy Sets: Theory and Applications. <i>IEEE Transactions on Fuzzy Systems</i> , 2010 , 18, 229-230	8.3	48
42	Computing With Words for Hierarchical Decision Making Applied to Evaluating a Weapon System. <i>IEEE Transactions on Fuzzy Systems</i> , 2010 , 18, 441-460	8.3	135
41	Ordered fuzzy weighted averages and ordered linguistic weighted averages 2010,		5
40	Efficient algorithms for computing a class of subsethood and similarity measures for interval type-2 fuzzy sets 2010 ,		4
39	Social Judgment Advisor: An application of the Perceptual Computer 2010,		14
38	2010,		293
38 37	2010, Historical reflections and new positions on perceptual computing. Fuzzy Optimization and Decision Making, 2009, 8, 325-335	5.1	293 18
	Historical reflections and new positions on perceptual computing. Fuzzy Optimization and Decision	5.1	
37	Historical reflections and new positions on perceptual computing. <i>Fuzzy Optimization and Decision Making</i> , 2009 , 8, 325-335	5.1	18
37	Historical reflections and new positions on perceptual computing. <i>Fuzzy Optimization and Decision Making</i> , 2009 , 8, 325-335 Uncertainty measures for general type-2 fuzzy sets 2009 ,	5.1	18
37 36 35	Historical reflections and new positions on perceptual computing. Fuzzy Optimization and Decision Making, 2009, 8, 325-335 Uncertainty measures for general type-2 fuzzy sets 2009, Obtaining an FOU for a word from a single subject by an individual interval approach 2009,	5.1	18 2 3
37 36 35 34	Historical reflections and new positions on perceptual computing. Fuzzy Optimization and Decision Making, 2009, 8, 325-335 Uncertainty measures for general type-2 fuzzy sets 2009, Obtaining an FOU for a word from a single subject by an individual interval approach 2009, A practical approach for design of PD and PI like Interval Type-2 TSK fuzzy controllers 2009,	5.1	18 2 3
37 36 35 34 33	Historical reflections and new positions on perceptual computing. Fuzzy Optimization and Decision Making, 2009, 8, 325-335 Uncertainty measures for general type-2 fuzzy sets 2009, Obtaining an FOU for a word from a single subject by an individual interval approach 2009, A practical approach for design of PD and PI like Interval Type-2 TSK fuzzy controllers 2009, Parametric design of stable type-2 TSK fuzzy systems 2008,	5.1	18 2 3 10 26

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29	Encoding Words Into Interval Type-2 Fuzzy Sets Using an Interval Approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2008 , 16, 1503-1521	8.3	231
28	HISTORICAL REFLECTIONS ON PERCEPTUAL COMPUTING 2008,		2
27	Type-2 Fuzzistics for Nonsymmetric Interval Type-2 Fuzzy Sets: Forward Problems. <i>IEEE Transactions on Fuzzy Systems</i> , 2007 , 15, 916-930	8.3	55
26	Cardinality, Fuzziness, Variance and Skewness of Interval Type-2 Fuzzy Sets 2007 ,		7
25	A Vector Similarity Measure for Interval Type-2 Fuzzy Sets 2007 ,		11
24	Advances in type-2 fuzzy sets and systems. <i>Information Sciences</i> , 2007 , 177, 84-110	7.7	412
23	Computing with words and its relationships with fuzzistics. <i>Information Sciences</i> , 2007 , 177, 988-1006	7.7	215
22	Uncertainty measures for interval type-2 fuzzy sets. <i>Information Sciences</i> , 2007 , 177, 5378-5393	7.7	247
21	Type-2 fuzzy sets and systems: an overview. IEEE Computational Intelligence Magazine, 2007, 2, 20-29	5.6	435
20	Computing with Words: Zadeh, Turing, Popper and Occam. <i>IEEE Computational Intelligence Magazine</i> , 2007 , 2, 10-17	5.6	122
19	Type-2 Fuzzistics for Symmetric Interval Type-2 Fuzzy Sets: Part 2, Inverse Problems. <i>IEEE Transactions on Fuzzy Systems</i> , 2007 , 15, 301-308	8.3	64
18	Super-Exponential Convergence of the KarnikMendel Algorithms for Computing the Centroid of an Interval Type-2 Fuzzy Set. <i>IEEE Transactions on Fuzzy Systems</i> , 2007 , 15, 309-320	8.3	143
17	An Interval Approach to Fuzzistics for Interval Type-2 Fuzzy Sets. <i>IEEE International Conference on Fuzzy Systems</i> , 2007 ,		22
16	. IEEE Transactions on Fuzzy Systems, 2007 , 15, 1145-1161	8.3	201
15	. IEEE Transactions on Fuzzy Systems, 2007 , 15, 56-72	8.3	69
14	Interval Type-2 Fuzzy Logic Systems Made Simple. <i>IEEE Transactions on Fuzzy Systems</i> , 2006 , 14, 808-82	18.3	1328
13	Type-2 Fuzzistics for Symmetric Interval Type-2 Fuzzy Sets: Part 1, Forward Problems. <i>IEEE Transactions on Fuzzy Systems</i> , 2006 , 14, 781-792	8.3	149
12	Centroid of a type-2 fuzzy set. <i>Information Sciences</i> , 2001 , 132, 195-220	7.7	805

11	Designing interval type-2 fuzzy logic systems using an SVD-QR method: Rule reduction. <i>International Journal of Intelligent Systems</i> , 2000 , 15, 939-957	8.4	28
10	Two-Pass Orthogonal Least-Squares Algorithm to Train and Reduce the Complexity of Fuzzy Logic Systems. <i>Journal of Intelligent and Fuzzy Systems</i> , 1996 , 4, 295-308	1.6	2
9	Lattice algorithms for recursive instrumental variable methods. <i>International Journal of Adaptive Control and Signal Processing</i> , 1996 , 10, 177-212	2.8	1
8	Inverse problems in two-dimensional acoustic media: A linear imaging model. <i>Journal of the Acoustical Society of America</i> , 1987 , 81, 1471-1485	2.2	
7	A computationally fast approach to maximum-likelihood deconvolution. <i>Geophysics</i> , 1984 , 49, 550-565	3.1	44
6	Maximum-Likelihood Seismic Deconvolution. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1983 , GE-21, 72-82	8.1	54
5	Normal incidence layered system state-space models which include absorption effects. <i>Geophysics</i> , 1983 , 48, 259-271	3.1	6
4	A novel approach to seismic signal processing and modeling. <i>Geophysics</i> , 1981 , 46, 1398-1414	3.1	29
3	A TIME-DOMAIN APPROACH TO THE NORMAL-INCIDENCE INVERSE PROBLEM*. <i>Geophysical Prospecting</i> , 1981 , 29, 742-757	1.9	9
2	Simultaneous Spherical Divergence Correction and Optima Deconvolution. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1980 , GE-18, 273-280	8.1	4