James M Keller

List of Publications by Year in descending order

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159585 82547 6,419 153 30 72 citations g-index h-index papers 156 156 156 4525 times ranked docs citations citing authors all docs

#	Article	IF	CITATIONS
1	A fuzzy K-nearest neighbor algorithm. IEEE Transactions on Systems, Man, and Cybernetics, 1985, SMC-15, 580-585.	0.9	1,964
2	Incorporating Fuzzy Membership Functions into the Perceptron Algorithm. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1985, PAMI-7, 693-699.	13.9	206
3	Linguistic summarization of video for fall detection using voxel person and fuzzy logic. Computer Vision and Image Understanding, 2009, 113, 80-89.	4.7	202
4	Advances in fuzzy integration for pattern recognition. Fuzzy Sets and Systems, 1994, 65, 273-283.	2.7	135
5	Characteristics of Natural Scenes Related to the Fractal Dimension. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1987, PAMI-9, 621-627.	13.9	130
6	Recognizing Falls from Silhouettes. , 2006, 2006, 6388-91.		122
7	Activity Analysis, Summarization, and Visualization for Indoor Human Activity Monitoring. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 1489-1498.	8.3	111
8	Fuzzy Clustering: A Historical Perspective. IEEE Computational Intelligence Magazine, 2019, 14, 45-55.	3.2	111
9	Comparing Fuzzy, Probabilistic, and Possibilistic Partitions. IEEE Transactions on Fuzzy Systems, 2010, 18, 906-918.	9.8	105
10	Generalized Choquet fuzzy integral fusion. Information Fusion, 2002, 3, 69-85.	19.1	104
10	Generalized Choquet fuzzy integral fusion. Information Fusion, 2002, 3, 69-85. Training the fuzzy integral. International Journal of Approximate Reasoning, 1996, 15, 1-24.	3.3	95
11	Training the fuzzy integral. International Journal of Approximate Reasoning, 1996, 15, 1-24. Modeling Human Activity From Voxel Person Using Fuzzy Logic. IEEE Transactions on Fuzzy Systems,	3.3	95
11 12	Training the fuzzy integral. International Journal of Approximate Reasoning, 1996, 15, 1-24. Modeling Human Activity From Voxel Person Using Fuzzy Logic. IEEE Transactions on Fuzzy Systems, 2009, 17, 39-49. The use of force histograms for affine-invariant relative position description. IEEE Transactions on	3.3 9.8	95
11 12 13	Training the fuzzy integral. International Journal of Approximate Reasoning, 1996, 15, 1-24. Modeling Human Activity From Voxel Person Using Fuzzy Logic. IEEE Transactions on Fuzzy Systems, 2009, 17, 39-49. The use of force histograms for affine-invariant relative position description. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 1-0_6. Day or Night Activity Recognition From Video Using Fuzzy Clustering Techniques. IEEE Transactions on	3.3 9.8 13.9	95 94 88
11 12 13	Training the fuzzy integral. International Journal of Approximate Reasoning, 1996, 15, 1-24. Modeling Human Activity From Voxel Person Using Fuzzy Logic. IEEE Transactions on Fuzzy Systems, 2009, 17, 39-49. The use of force histograms for affine-invariant relative position description. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 1-0_6. Day or Night Activity Recognition From Video Using Fuzzy Clustering Techniques. IEEE Transactions on Fuzzy Systems, 2014, 22, 483-493.	3.3 9.8 13.9 9.8	95 94 88 82
11 12 13 14	Training the fuzzy integral. International Journal of Approximate Reasoning, 1996, 15, 1-24. Modeling Human Activity From Voxel Person Using Fuzzy Logic. IEEE Transactions on Fuzzy Systems, 2009, 17, 39-49. The use of force histograms for affine-invariant relative position description. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 1-0_6. Day or Night Activity Recognition From Video Using Fuzzy Clustering Techniques. IEEE Transactions on Fuzzy Systems, 2014, 22, 483-493. Clustering ellipses for anomaly detection. Pattern Recognition, 2011, 44, 55-69.	3.3 9.8 13.9 9.8	95 94 88 82 77

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19	Frequency Subband Processing and Feature Analysis of Forward-Looking Ground-Penetrating Radar Signals for Land-Mine Detection. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 718-729.	6.3	55
20	Enabling Explainable Fusion in Deep Learning With Fuzzy Integral Neural Networks. IEEE Transactions on Fuzzy Systems, 2020, 28, 1291-1300.	9.8	47
21	Relational Generalizations of Cluster Validity Indices. IEEE Transactions on Fuzzy Systems, 2010, 18, 771-786.	9.8	46
22	Cardiovascular Function and Ballistocardiogram: A Relationship Interpreted via Mathematical Modeling. IEEE Transactions on Biomedical Engineering, 2019, 66, 2906-2917.	4.2	41
23	Extension of the Fuzzy Integral for General Fuzzy Set-Valued Information. IEEE Transactions on Fuzzy Systems, 2014, 22, 1625-1639.	9.8	40
24	Monitoring the Relative Blood Pressure Using a Hydraulic Bed Sensor System. IEEE Transactions on Biomedical Engineering, 2019, 66, 740-748.	4.2	40
25	Title is missing!. Autonomous Robots, 2003, 14, 51-69.	4.8	38
26	Linguistic summarization of sensor data for eldercare. , 2011, , .		37
27	A Fuzzy Rule-Based Approach to Scene Description Involving Spatial Relationships. Computer Vision and Image Understanding, 2000, 80, 21-41.	4.7	36
28	A Fuzzy Measure Similarity Between Sets of Linguistic Summaries. IEEE Transactions on Fuzzy Systems, 2013, 21, 183-189.	9.8	36
29	Linguistic Prototypes for Data From Eldercare Residents. IEEE Transactions on Fuzzy Systems, 2014, 22, 110-123.	9.8	36
30	Learning Fuzzy-Valued Fuzzy Measures for the Fuzzy-Valued Sugeno Fuzzy Integral. Lecture Notes in Computer Science, 2010, , 502-511.	1.3	36
31	Linguistic summarization of long-term trends for understanding change in human behavior. , $2011,$, .		34
32	Sleep Posture Classification Using Bed Sensor Data and Neural Networks., 2018, 2018, 461-465.		34
33	Is VAT really single linkage in disguise?. Annals of Mathematics and Artificial Intelligence, 2009, 55, 237-251.	1.3	32
34	Recognizing complex instrumental activities of daily living using scene information and fuzzy logic. Computer Vision and Image Understanding, 2015, 140, 68-82.	4.7	32
35	LADAR target detection using morphological shared-weight neural networks. Machine Vision and Applications, 2000, 11, 300-305.	2.7	31
36	Image segmentation in the presence of uncertainty. International Journal of Intelligent Systems, 1990, 5, 193-208.	5.7	30

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37	Speedup of Fuzzy Clustering Through Stream Processing on Graphics Processing Units. IEEE Transactions on Fuzzy Systems, 2008, 16, 1101-1106.	9.8	30
38	Clustering in ordered dissimilarity data. International Journal of Intelligent Systems, 2009, 24, 504-528.	5.7	29
39	A distance metric for a space of linguistic summaries. Fuzzy Sets and Systems, 2012, 208, 79-94.	2.7	26
40	Dunn's cluster validity index as a contrast measure of VAT images., 2008,,.		24
41	Body sway measurement for fall risk assessment using inexpensive webcams. , 2010, 2010, 2225-9.		24
42	Deep convolutional neural network target classification for underwater synthetic aperture sonar imagery. , 2019, , .		23
43	Growing neural gas for temporal clustering. , 2008, , .		22
44	A Memetic Algorithm for Matching Spatial Configurations With the Histograms of Forces. IEEE Transactions on Evolutionary Computation, 2013, 17, 588-604.	10.0	22
45	Fuzzy additive hybrid operators for network-based decision making. International Journal of Intelligent Systems, 1994, 9, 1001-1023.	5.7	21
46	A fuzzy Choquet integral with an interval type-2 fuzzy number-valued integrand. , 2010, , .		21
47	Local fractal geometric features for image segmentation. International Journal of Imaging Systems and Technology, 1990, 2, 267-284.	4.1	20
48	Linguistic summarization of in-home sensor data. Journal of Biomedical Informatics, 2019, 96, 103240.	4.3	20
49	Fuzzy Confidence Measures in Midlevel Vision. IEEE Transactions on Systems, Man, and Cybernetics, 1987, 17, 676-683.	0.9	19
50	Finding the number of clusters in ordered dissimilarities. Soft Computing, 2009, 13, 1125-1142.	3.6	19
51	Computing With Words With the Ontological Self-Organizing Map. IEEE Transactions on Fuzzy Systems, 2010, 18, 473-485.	9.8	18
52	A fuzzy logic rule-based automatic target recognizer. International Journal of Intelligent Systems, 1991, 6, 295-312.	5.7	17
53	Falls, Technology, and Stunt Actors. Journal of Nursing Care Quality, 2008, 23, 195-201.	0.9	17
54	Multiple Instance Choquet integral for classifier fusion. , 2016, , .		17

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55	Possibilistic fuzzy local information C-Means for sonar image segmentation. , 2017, , .		17
56	Adaptive Silouette Extraction and Human Tracking in Complex and Dynamic Environments., 2006,,.		16
57	Segmentation and linguistic summarization of voxel environments using stereo vision and genetic algorithms. , 2010, , .		16
58	Extracting footfalls from voxel data. , 2010, 2010, 1119-22.		16
59	Clustering of Detected Changes in High-Resolution Satellite Imagery Using a Stabilized Competitive Agglomeration Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4687-4703.	6.3	16
60	Similarity measure for anomaly detection and comparing human behaviors. International Journal of Intelligent Systems, 2012, 27, 733-756.	5.7	16
61	Streaming Data Analysis: Clustering or Classification?. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 91-102.	9.3	16
62	Video-based activity monitoring for indoor environments., 2009,,.		15
63	A temporal analysis system for early detection of health changes. , 2016, , .		15
64	Non-Invasive In-Home Sleep Stage Classification Using a Ballistocardiography Bed Sensor. , 2019, , .		15
65	Explainable AI for the Choquet Integral. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 520-529.	4.9	15
66	AN APPROXIMATE REASONING TECHNIQUE FOR RECOGNITION IN COLOR IMAGES OF BEEF STEAKS. International Journal of General Systems, 1990, 16, 331-342.	2.5	13
67	<title>Detection and classification of MSTAR objects via morphological shared-weight neural networks</title> ., 1998,,.		13
68	On the computation of semantically ordered truth values of linguistic protoform summaries. , 2015, , .		13
69	Recognizing Falls from Silhouettes. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	13
70	Scene Matching between a Map and a Hand Drawn Sketch Using Spatial Relations. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	12
71	Fuzzy cluster analysis of bioinformatics data composed of microarray expression data and gene ontology annotations. , 2008, , .		12
72	Sit-to-stand detection using fuzzy clustering techniques. , 2010, , .		12

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73	Sequential Possibilistic One-Means Clustering with Dynamic Eta. , 2018, , .		12
74	Emergent trend detection in diurnal activity., 2008, 2008, 3815-8.		11
75	Contour tracking of human exercises. , 2009, , .		11
76	Sit-to-Stand Measurement for In-Home Monitoring Using Voxel Analysis. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1502-1509.	6.3	11
77	Sleep stage recognition using respiration signal. , 2016, 2016, 2843-2846.		11
78	Some neural net realizations of fuzzy reasoning. International Journal of Intelligent Systems, 1998, 13, 859-886.	5.7	10
79	GENE ONTOLOGY SIMILARITY MEASURES BASED ON LINEAR ORDER STATISTICS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2006, 14, 639-661.	1.9	10
80	A new cluster validity measure for bioinformatics relational datasets. , 2008, , .		10
81	Similarity evaluation of sets of linguistic summaries. International Journal of Intelligent Systems, 2012, 27, 926-938.	5.7	10
82	Textual summarization of events leading to health alerts., 2015, 2015, 7634-7.		10
83	Sequential possibilistic one-means clustering. , 2017, , .		10
84	Analysis of Streaming Clustering Using an Incremental Validity Index. , 2018, , .		10
85	TLPCM: Transfer Learning Possibilistic \$C\$-Means. IEEE Transactions on Fuzzy Systems, 2021, 29, 940-952.	9.8	10
86	Linguistic description of adult skeletal age-at-death estimations from fuzzy integral acquired fuzzy sets. , $2011, \dots$		9
87	Quantitative analysis of 180 degree turns for fall risk assessment using video sensors. , 2011, 2011, 7606-9.		9
88	Granular Modeling of Fuzzy Color Categories. IEEE Transactions on Fuzzy Systems, 2020, 28, 1897-1909.	9.8	9
89	Extending the Morphological Hit-or-Miss Transform to Deep Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4826-4838.	11.3	9
90	Relational mountain (density) clustering method and web log analysis. International Journal of Intelligent Systems, 2005, 20, 375-392.	5.7	8

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91	Mapping natural language to imagery: Placing objects intelligently. , 2009, , .		8
92	Non-invasive monitoring of vital signs for older adults using recliner chairs. Health and Technology, 2021, 11, 169-184.	3.6	8
93	Relational Duals of Cluster-Validity Functions for the \$c\$-Means Family. IEEE Transactions on Fuzzy Systems, 2010, 18, 1160-1170.	9.8	7
94	Conflation of Vector Buildings With Imagery. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 83-87.	3.1	7
95	Generation of prototypes from sets of linguistic summaries. , 2012, , .		7
96	Anomaly detection from linguistic summaries. , 2013, , .		7
97	Analysis of Incremental Cluster Validity for Big Data Applications. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2018, 26, 47-62.	1.9	7
98	Tracking personalized functional health in older adults using geriatric assessments. BMC Medical Informatics and Decision Making, 2020, 20, 270.	3.0	7
99	Pulsed-Field Gel Elec rophoresis Pa ern Recogni ion of Bac erial DNA: A Systemic Approach. Pattern Analysis and Applications, 2001, 4, 244-255.	4.6	6
100	Nighttime in-home action monitoring for eldercare., 2011, 2011, 5299-302.		6
101	A framework for computing crowd emotions using agent based modeling., 2013,,.		6
102	Early illness recognition in older adults using transfer learning., 2017,,.		6
103	A Weighted Matrix Visualization for Fuzzy Measures and Integrals. , 2020, , .		6
104	Evaluating Evolving Structure in Streaming Data With Modified Dunn's Indices. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 262-273.	4.9	6
105	A Comparison of Five Fuzzy Rand Indices. Communications in Computer and Information Science, 2010, , 446-454.	0.5	6
106	Combining Physiology-Based Modeling and Evolutionary Algorithms for Personalized, Noninvasive Cardiovascular Assessment Based on Electrocardiography and Ballistocardiography. Frontiers in Physiology, 2021, 12, 739035.	2.8	6
107	Anti-Personnel Land Mine Detection and Discrimination Using Acoustic Data. Subsurface Sensing Technologies and Applications, 2002, 3, 75-93.	0.9	5
108	A relational dual of the fuzzy possibilistic c-means algorithm. , 2010, , .		5

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109	Detection of buried objects in FLIR imaging using mathematical morphology and SVM., 2012,,.		5
110	An extension of a confined space evacuation model to human geography., 2012,,.		5
111	A framework for harmonizing sensor data to support embedded health assessment., 2014, 2014, 1747-51.		5
112	Robust On-Line Streaming Clustering. Communications in Computer and Information Science, 2018, , 467-478.	0.5	5
113	Linear Order Statistic Neuron. , 2019, , .		5
114	StreamSoNG: A Soft Streaming Classification Approach. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 700-709.	4.9	5
115	Mechanism-Driven Modeling to Aid Non-invasive Monitoring of Cardiac Function via Ballistocardiography. Frontiers in Medical Technology, 2022, 4, 788264.	2.5	5
116	Phase signatures in acoustic-seismic land mine detection. Radio Science, 2004, 39, n/a-n/a.	1.6	4
117	A Robot in a Water Maze: Learning a Spatial Memory Task. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	4
118	Learning the Fuzzy Connectives of a Multilayer Network Using Particle Swarm Optimization. , 2007, , .		4
119	Adaptive temporal difference learning of spatial memory in the water maze task. , 2008, , .		4
120	eCCV: A new fuzzy cluster validity measure for large relational bioinformatics datasets. , 2009, , .		4
121	Implementing bounded rationality in disaster agent behavior using OGA operators. , 2012, , .		4
122	Visualizing uncertainty with fuzzy rose diagrams. , 2014, , .		4
123	Quantitative and qualitative comparison of periodic sensor data., 2016,,.		4
124	Data Stream Trajectory Analysis Using Sequential Possibilistic Gaussian Mixture Model. , 2019, , .		4
125	A New Incremental Cluster Validity Index for Streaming Clustering Analysis. , 2019, , .		4
126	Possibilistic Clustering Enabled Neuro Fuzzy Logic. , 2020, , .		4

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127	New Linguistic Description Approach for Time Series and Its Application to Bed Restlessness Monitoring for Eldercare. IEEE Transactions on Fuzzy Systems, 2022, 30, 1048-1059.	9.8	4
128	A modified genetic algorithm for matching building sets with the histograms of forces. , 2010, , .		3
129	Dirt road segmentation using color and texture features in color imagery. , 2012, , .		3
130	Detecting foreground disambiguation of depth images using fuzzy logic., 2013,,.		3
131	Context preserving representation of daily activities in elder care. , 2017, , .		3
132	Adaptive multidimensional fuzzy sets for texture modeling. International Journal of Approximate Reasoning, 2018, 103, 288-302.	3.3	3
133	On a Granular Approach for Fuzzy Color Modelling. , 2020, , .		3
134	Noninvasive cardiovascular monitoring based on electrocardiography and ballistocardiography: a feasibility study on patients in the surgical intensive care unit., 2021, 2021, 951-954.		3
135	Fuzzy contour tracking of human silhouettes. , 2009, , .		2
136	Object set matching with an evolutionary algorithm., 2011,,.		2
137	Causal cueing system for above ground anomaly detection of explosive hazards using support vector machine localized by K-nearest neighbor. , 2012, , .		2
138	Evolving a fuzzy goal-driven strategy for the game of Geister: An exercise in teaching computational intelligence., 2014,,.		2
139	A human geospatial predictive analytics framework with application to finding medically underserved areas. , 2014, , .		2
140	Sequential Possibilistic Local Information One-Means Clustering For Image Segmentation. , 2020, , .		2
141	Explainable Systematic Analysis for Synthetic Aperture Sonar Imagery., 2021,,.		2
142	Genetic fuzzy programs. , 2008, , .		1
143	A graph-based memetic approach to sketch geolocation. , 2013, , .		1
144	Patient stratification based on Activity of Daily Living score using Relational Self-Organizing Maps. , 2014, , .		1

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145	Building a framework for recognition of activities of daily living from depth images using fuzzy logic. , $2014, , .$		1
146	A myopic Monte Carlo strategy for the partially observable travelling salesman problem. , 2016, , .		1
147	A Novel Distance for Automated Surgical Skill Evaluation. , 2019, , .		1
148	Possibilistic C-Shell Clustering with Inter-Cluster Constraints. , 2006, , .		0
149	Fuzzy Approaches for the Analysis CpG Island Methylation Patterns. , 0, , 141-165.		0
150	Surgery Task Classification Using Procrustes Analysis. , 2019, , .		0
151	Evaluating Path Costs in Multi-Attributed Fuzzy Weighted Graphs. , 2019, , .		0
152	Comments on "TLPCM: Transfer Learning Possibilistic C-Means― Errata and Observations. IEEE Transactions on Fuzzy Systems, 2021, 29, 702-704.	9.8	0
153	Divergence Regulated Encoder Network for Joint Dimensionality Reduction and Classification. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	O