Miin-Shen Yang

List of Publications by Year
in descending order

162 papers	7,896 citations	57631 44 h-index	53109 85 g-index
165 all docs	165 docs citations	165 times ranked	4136 citing authors

#	Article	IF	Citations
1	Unsupervised K-Means Clustering Algorithm. IEEE Access, 2020, 8, 80716-80727.	2.6	720
2	Similarity measures of intuitionistic fuzzy sets based on Hausdorff distance. Pattern Recognition Letters, 2004, 25, 1603-1611.	2.6	499
3	Alternative c-means clustering algorithms. Pattern Recognition, 2002, 35, 2267-2278.	5.1	452
4	A cluster validity index for fuzzy clustering. Pattern Recognition Letters, 2005, 26, 1275-1291.	2.6	360
5	Fuzzy entropy on intuitionistic fuzzy sets. International Journal of Intelligent Systems, 2006, 21, 443-451.	3.3	226
6	A robust EM clustering algorithm for Gaussian mixture models. Pattern Recognition, 2012, 45, 3950-3961.	5.1	212
7	On a class of fuzzy c-numbers clustering procedures for fuzzy data. Fuzzy Sets and Systems, 1996, 84, 49-60.	1.6	191
8	Similarity measures of intuitionistic fuzzy sets based on Lp metric. International Journal of Approximate Reasoning, 2007, 46, 120-136.	1.9	190
9	A similarity-based robust clustering method. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 434-448.	9.7	182
10	Unsupervised possibilistic clustering. Pattern Recognition, 2006, 39, 5-21.	5.1	165
11	On the J-divergence of intuitionistic fuzzy sets with its application to pattern recognition. Information Sciences, 2008, 178, 1641-1650.	4.0	161
12	A Gaussian kernel-based fuzzy c-means algorithm with a spatial bias correction. Pattern Recognition Letters, 2008, 29, 1713-1725.	2.6	148
13	Segmentation techniques for tissue differentiation in MRI of Ophthalmology using fuzzy clustering algorithms. Magnetic Resonance Imaging, 2002, 20, 173-179.	1.0	146
14	A Feature-Reduction Fuzzy Clustering Algorithm Based on Feature-Weighted Entropy. IEEE Transactions on Fuzzy Systems, 2018, 26, 817-835.	6.5	127
15	A similarity measure of intuitionistic fuzzy sets based on the Sugeno integral with its application to pattern recognition. Information Sciences, 2012, 189, 93-109.	4.0	125
16	Mean shift-based clustering. Pattern Recognition, 2007, 40, 3035-3052.	5.1	115
17	TOPSIS Method Based on Complex Spherical Fuzzy Sets with Bonferroni Mean Operators. Mathematics, 2020, 8, 1739.	1.1	114
18	Robust-learning fuzzy c-means clustering algorithm with unknown number of clusters. Pattern Recognition, 2017, 71, 45-59.	5.1	110

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19	Optimality test for generalized FCM and its application to parameter selection. IEEE Transactions on Fuzzy Systems, 2005, 13, 164-176.	6.5	109
20	On a class of fuzzy classification maximum likelihood procedures. Fuzzy Sets and Systems, 1993, 57, 365-375.	1.6	105
21	On similarity measures between intuitionistic fuzzy sets. International Journal of Intelligent Systems, 2008, 23, 364-383.	3.3	102
22	Fuzzy clustering algorithms for mixed feature variables. Fuzzy Sets and Systems, 2004, 141, 301-317.	1.6	99
23	Cluster analysis based on fuzzy relations. Fuzzy Sets and Systems, 2001, 120, 197-212.	1.6	98
24	Fuzzy least-squares linear regression analysis for fuzzy inputâ€“output data. Fuzzy Sets and Systems, 2002, 126, 389-399.	1.6	98
25	Complex T-Spherical Fuzzy Aggregation Operators with Application to Multi-Attribute Decision Making. Symmetry, 2020, 12, 1311.	1.1	95
26	A control chart pattern recognition system using a statistical correlation coefficient method. Computers and Industrial Engineering, 2005, 48, 205-221.	3.4	94
27	On similarity and inclusion measures between type-2 fuzzy sets with an application to clustering. Computers and Mathematics With Applications, 2009, 57, 896-907.	1.4	88
28	Distance and similarity measures of Pythagorean fuzzy sets based on the Hausdorff metric with application to fuzzy TOPSIS. International Journal of Intelligent Systems, 2019, 34, 2633-2654.	3.3	87
29	A Feature-Reduction Multi-View k-Means Clustering Algorithm. IEEE Access, 2019, 7, 114472-114486.	2.6	80
30	New similarity measures of intuitionistic fuzzy sets based on the Jaccard index with its application to clustering. International Journal of Intelligent Systems, 2018, 33, 1672-1688.	3.3	78
31	A new clustering approach using data envelopment analysis. European Journal of Operational Research, 2009, 199, 276-284.	3.5	75
32	SIMILARITY MEASURES BETWEEN TYPE-2 FUZZY SETS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2004, 12, 827-841.	0.9	71
33	Machine-part cell formation in group technology using a modified ART1 method. European Journal of Operational Research, 2008, 188, 140-152.	3.5	71
34	A Robust Automatic Merging Possibilistic Clustering Method. IEEE Transactions on Fuzzy Systems, 2011, 19, 26-41.	6.5	68
35	Aczel-Alsina Aggregation Operators on T-Spherical Fuzzy (TSF) Information With Application to TSF Multi-Attribute Decision Making. IEEE Access, 2022, 10, 26011-26023.	2.6	67
36	Parameter selection for suppressed fuzzy c-means with an application to MRI segmentation. Pattern Recognition Letters, 2006, 27, 424-438.	2.6	65

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37	Fuzzy clustering on LR-type fuzzy numbers with an application in Taiwanese tea evaluation. Fuzzy Sets and Systems, 2005, 150, 561-577.	1.6	64
38	A novel fuzzy clustering algorithm based on a fuzzy scatter matrix with optimality tests. Pattern Recognition Letters, 2005, 26, 639-652.	2.6	63
39	On cluster-wise fuzzy regression analysis. IEEE Transactions on Systems, Man, and Cybernetics, 1997, 27, 1-13.	5.5	62
40	Alpha-Cut Implemented Fuzzy Clustering Algorithms and Switching Regressions. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 588-603.	5.5	56
41	An omission approach for detecting outliers in fuzzy regression models. Fuzzy Sets and Systems, 2006, 157, 3109-3122.	1.6	55
42	Fuzzy Entropy for Pythagorean Fuzzy Sets with Application to Multicriterion Decision Making. Complexity, 2018, 2018, 1-14.	0.9	55
43	A Generalized Fuzzy Clustering Regularization Model With Optimality Tests and Model Complexity Analysis. IEEE Transactions on Fuzzy Systems, 2007, 15, 904-915.	6.5	53
44	Novel Aczelâ€“Alsina Operators for Pythagorean Fuzzy Sets with Application in Multi-Attribute Decision Making. Symmetry, 2022, 14, 940.	1.1	52
45	Bootstrapping approach to feature-weight selection in fuzzy c-means algorithms with an application in color image segmentation. Pattern Recognition Letters, 2008, 29, 1317-1325.	2.6	47
46	Fuzzy clustering procedures for conical fuzzy vector data. Fuzzy Sets and Systems, 1999, 106, 189-200.	1.6	44
47	Bias-correction fuzzy clustering algorithms. Information Sciences, 2015, 309, 138-162.	4.0	43
48	Similarity, inclusion and entropy measures between type-2 fuzzy sets based on the Sugeno integral. Mathematical and Computer Modelling, 2011, 53, 1788-1797.	2.0	41
49	A fuzzy-soft learning vector quantization for control chart pattern recognition. International Journal of Production Research, 2002, 40, 2721-2731.	4.9	39
50	Fuzzy least-squares algorithms for interactive fuzzy linear regression models. Fuzzy Sets and Systems, 2003, 135, 305-316.	1.6	39
51	Mixed-variable fuzzy clustering approach to part family and machine cell formation for GT applications. International Journal of Production Economics, 2006, 103, 185-198.	5.1	39
52	Robust cluster validity indexes. Pattern Recognition, 2009, 42, 2541-2550.	5.1	39
53	Entropy for Hesitant Fuzzy Sets Based on Hausdorff Metric with Construction of Hesitant Fuzzy TOPSIS. International Journal of Fuzzy Systems, 2018, 20, 2517-2533.	2.3	38
54	ON ENTROPY OF FUZZY SETS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2008, 16, 519-527.	0.9	36

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55	On a similarity measure between LR-type fuzzy numbers and its application to database acquisition. International Journal of Intelligent Systems, 2005, 20, 1001-1016.	3.3	35
56	A modified mountain clustering algorithm. Pattern Analysis and Applications, 2005, 8, 125-138.	3.1	34
57	Collaborative feature-weighted multi-view fuzzy c-means clustering. Pattern Recognition, 2021, 119, 108064.	5.1	33
58	On convergence and parameter selection of the EM and DA-EM algorithms for Gaussian mixtures. Pattern Recognition, 2018, 77, 188-203.	5.1	31
59	Distance and similarity measures of hesitant fuzzy sets based on Hausdorff metric with applications to multi-criteria decision making and clustering. Soft Computing, 2019, 23, 5835-5848.	2.1	31
60	Unsupervised fuzzy model-based Gaussian clustering. Information Sciences, 2019, 481, 1-23.	4.0	31
61	Powered Gaussian kernel spectral clustering. Neural Computing and Applications, 2019, 31, 557-572.	3.2	31
62	On parameter estimation for normal mixtures based on fuzzy clustering algorithms. Fuzzy Sets and Systems, 1994, 68, 13-28.	1.6	30
63	A fuzzy-soft learning vector quantization. Neurocomputing, 2003, 55, 681-697.	3.5	30
64	Fuzzy Change-Point Algorithms for Regression Models. IEEE Transactions on Fuzzy Systems, 2015, 23, 2343-2357.	6.5	30
65	Complex T-Spherical Fuzzy Relations With Their Applications in Economic Relationships and International Trades. IEEE Access, 2021, 9, 66115-66131.	2.6	30
66	On fuzzy clustering of directional data. Fuzzy Sets and Systems, 1997, 91, 319-326.	1.6	28
67	Generalized belief function, plausibility function, and Dempster's combinational rule to fuzzy sets. International Journal of Intelligent Systems, 2003, 18, 925-937.	3.3	27
68	On the edited fuzzy K-nearest neighbor rule. IEEE Transactions on Systems, Man, and Cybernetics, 1998, 28, 461-466.	5.5	25
69	Data analysis on the extrasolar planets using robust clustering. Monthly Notices of the Royal Astronomical Society, 2006, 370, 1379-1392.	1.6	25
70	Analysis of Parameter Selection for Gustafsonâ€“Kessel Fuzzy Clustering Using Jacobian Matrix. IEEE Transactions on Fuzzy Systems, 2015, 23, 2329-2342.	6.5	25
71	Change-point detection for shifts in control charts using fuzzy shift change-point algorithms. Computers and Industrial Engineering, 2016, 93, 12-27.	3.4	25
72	A Fully-Unsupervised Possibilistic C-Means Clustering Algorithm. IEEE Access, 2018, 6, 78308-78320.	2.6	25

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73	Generalized Kohonenâ€™s competitive learning algorithms for ophthalmological MR image segmentation. Magnetic Resonance Imaging, 2003, 21, 863-870.	1.0	24
74	Deterministic annealing Gustafson-Kessel fuzzy clustering algorithm. Information Sciences, 2017, 417, 435-453.	4.0	24
75	Entropy K-Means Clustering With Feature Reduction Under Unknown Number of Clusters. IEEE Access, 2021, 9, 67736-67751.	2.6	23
76	Cell formation using fuzzy relational clustering algorithm. Mathematical and Computer Modelling, 2011, 53, 1776-1787.	2.0	22
77	Similarity Measures Based on T-Spherical Fuzzy Information with Applications to Pattern Recognition and Decision Making. Symmetry, 2022, 14, 410.	1.1	22
78	On mean shift-based clustering for circular data. Soft Computing, 2012, 16, 1043-1060.	2.1	21
79	Trigonometric Similarity Measures for Neutrosophic Hypersoft Sets With Application to Renewable Energy Source Selection. IEEE Access, 2021, 9, 129178-129187.	2.6	21
80	Establishing performance evaluation structures by fuzzy relation-based cluster analysis. Computers and Mathematics With Applications, 2008, 56, 572-582.	1.4	20
81	Distance and Similarity Measures for Neutrosophic HyperSoft Set (NHSS) With Construction of NHSS-TOPSIS and Applications. IEEE Access, 2021, 9, 30803-30816.	2.6	20
82	A fuzzy k-partitions model for categorical data and its comparison to the GoM model. Fuzzy Sets and Systems, 2008, 159, 390-405.	1.6	19
83	Suppressed fuzzy-soft learning vector quantization for MRI segmentation. Artificial Intelligence in Medicine, 2011, 52, 33-43.	3.8	19
84	Self-organizing map for symbolic data. Fuzzy Sets and Systems, 2012, 203, 49-73.	1.6	19
85	Alternative learning vector quantization. Pattern Recognition, 2006, 39, 351-362.	5.1	18
86	Generalization of belief and plausibility functions to fuzzy sets based on the sugeno integral. International Journal of Intelligent Systems, 2007, 22, 1215-1228.	3.3	18
87	Magnetic resonance imaging segmentation techniques using batch-type learning vector quantization algorithms. Magnetic Resonance Imaging, 2007, 25, 265-277.	1.0	18
88	Self-updating clustering algorithm for estimating the parameters in mixtures of von Mises distributions. Journal of Applied Statistics, 2012, 39, 2259-2274.	0.6	17
89	Interval-valued fuzzy relation-based clustering with its application to performance evaluation. Computers and Mathematics With Applications, 2009, 57, 841-849.	1.4	16
90	Sample-weighted clustering methods. Computers and Mathematics With Applications, 2011, 62, 2200-2208.	1.4	16

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91	Belief and Plausibility Measures on Intuitionistic Fuzzy Sets with Construction of Belief-Plausibility TOPSIS. Complexity, 2020, 2020, 1-12.	0.9	16
92	Three-Way Decisions Based on Q-Rung Orthopair Fuzzy 2-Tuple Linguistic Sets with Generalized Maclaurin Symmetric Mean Operators. Mathematics, 2021, 9, 1387.	1.1	15
93	Evaluation measures for cluster ensembles based on a fuzzy generalized Rand index. Applied Soft Computing Journal, 2017, 57, 225-234.	4.1	14
94	Complex q-Rung Orthopair Uncertain Linguistic Partitioned Bonferroni Mean Operators with Application in Antivirus Mask Selection. Symmetry, 2021, 13, 249.	1.1	14
95	On strong consistency of the fuzzy generalized nearest neighbor rule. Fuzzy Sets and Systems, 1993, 60, 273-281.	1.6	13
96	New Similarity Measures Between Generalized Trapezoidal Fuzzy Numbers Using the Jaccard Index. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2014, 22, 831-844.	0.9	13
97	Weighted Multiview Possibilistic C-Means Clustering With L2 Regularization. IEEE Transactions on Fuzzy Systems, 2022, 30, 1357-1370.	6.5	13
98	ON STOCHASTIC CONVERGENCE THEOREMS FOR THE FUZZYC-MEANS CLUSTERING PROCEDUREâˆ—. International Journal of General Systems, 1990, 16, 397-411.	1.2	12
99	ON SIMILARITY, INCLUSION MEASURE AND ENTROPY BETWEEN TYPE-2 FUZZY SETS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2012, 20, 433-449.	0.9	12
100	ON EXISTENCE AND STRONG CONSISTENCY OF A CLASS OF FUZZYC-MEANS CLUSTERING PROCEDURES. Cybernetics and Systems, 1992, 23, 583-602.	1.6	11
101	Mountain c-regressions method. Pattern Recognition, 2010, 43, 86-98.	5.1	11
102	A robust clustering procedure for fuzzy data. Computers and Mathematics With Applications, 2010, 60, 151-165.	1.4	11
103	An unsupervised clustering algorithm for data on the unit hypersphere. Applied Soft Computing Journal, 2016, 42, 290-313.	4.1	11
104	A novel fuzzy clustering algorithm. , 0, , .		10
105	Estimation of parameters in latent class models using fuzzy clustering algorithms. European Journal of Operational Research, 2005, 160, 515-531.	3.5	10
106	A Similarity Measure between Type-2 Fuzzy Sets with Its Application to Clustering. , 2007, , .		10
107	Feature-Weighted Possibilistic c-Means Clustering With a Feature-Reduction Framework. IEEE Transactions on Fuzzy Systems, 2021, 29, 1093-1106.	6.5	10
108	A new validity index for fuzzy clustering. , 0, , .		9

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109	Fast clustering for signed graphs based on random walk gap. Social Networks, 2020, 60, 113-128.	1.3	9
110	A Novel MCDM Method Based on Plithogenic Hypersoft Sets under Fuzzy Neutrosophic Environment. Symmetry, 2020, 12, 1855.	1.1	9
111	Possiblistic C-Means Clustering on Directional Data. , 2019, , .		7
112	Gaussian-kernel c-means clustering algorithms. Soft Computing, 2021, 25, 1699-1716.	2.1	7
113	On possibility analysis of fuzzy data. Fuzzy Sets and Systems, 1998, 94, 171-183.	1.6	6
114	Block fuzzy k-modes clustering algorithm. , 2009, , .		6
115	Belief and Plausibility Functions on Intuitionistic Fuzzy Sets. International Journal of Intelligent Systems, 2016, 31, 556-568.	3.3	6
116	On fuzzy renewal processes for fuzzy random variables and extended theorems. International Journal of Intelligent Systems, 2011, 26, 115-128.	3.3	5
117	A Generalization of Rand and Jaccard Indices with Its Fuzzy Extension. International Journal of Fuzzy Systems, 2016, 18, 1008-1018.	2.3	5
118	Stepwise possibilistic c-regressions. Information Sciences, 2016, 334-335, 307-322.	4.0	5
119	Fuzzy Gaussian Lasso clustering with application to cancer data. Mathematical Biosciences and Engineering, 2020, 17, 250-265.	1.0	5
120	FUZZY CLASS LOGISTIC REGRESSION ANALYSIS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2004, 12, 761-780.	0.9	4
121	Mixture Poisson regression models for heterogeneous count data based on latent and fuzzy class analysis. Soft Computing, 2005, 9, 519-524.	2.1	4
122	A ROBUST FUZZY CLASSIFICATION MAXIMUM LIKELIHOOD CLUSTERING FRAMEWORK. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2013, 21, 755-776.	0.9	4
123	An intuitive clustering algorithm for spherical data with application to extrasolar planets. Journal of Applied Statistics, 2015, 42, 2220-2232.	0.6	4
124	Learning-based EM clustering for data on the unit hypersphere with application to exoplanet data. Applied Soft Computing Journal, 2017, 60, 101-114.	4.1	4
125	A Robust Kernel-Based Fuzzy C-Means Algorithm by Incorporating Suppressed and Magnified Membership for MRI Image Segmentation. Lecture Notes in Computer Science, 2012, , 744-754.	1.0	4
126	A possibilistic type of alternative fuzzy c-means. , 0, , .		3

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127	Mean shift-based clustering for directional data. , 2010, , .		3
128	Exponential-Distance Weighted K-Means Algorithm with Spatial Constraints for Color Image Segmentation. , 2011, , .		3
129	New similarity and inclusion measures between type-2 fuzzy sets. , 2011, , .		3
130	Star-based learning correlation clustering. Pattern Recognition, 2021, 116, 107966.	5.1	3
131	A Novel Multimodal Probability Model for Cluster Analysis. Lecture Notes in Computer Science, 2009, , 397-404.	1.0	3
132	A New Approach for Normal Parameter Reduction Using Ïƒ-Algebraic Soft Sets and Its Application in Multi-Attribute Decision Making. Mathematics, 2022, 10, 1297.	1.1	3
133	Variation approaches to feature-weight selection and application to fuzzy clustering. , 2008, , .		2
134	On tree types of competitive learning algorithms with their comparisons and applications to MRI segmentation. International Journal of Intelligent Systems, 2010, 25, n/a-n/a.	3.3	2
135	A batch version of the SOM for symbolic data. , 2010, , .		2
136	Entropy-type classification maximum likelihood algorithms for mixture models. Soft Computing, 2011, 15, 373-381.	2.1	2
137	Clustering Methods Based on Weighted Quasi-Arithmetic Means of T-Transitive Fuzzy Relations. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2015, 23, 715-733.	0.9	2
138	Fuzzy Generalization and Comparisons for the Rand Index. International Journal of Intelligent Systems, 2018, 33, 901-927.	3.3	2
139	Modified Relational Mountain Clustering Method. Lecture Notes in Computer Science, 2018, , 690-701.	1.0	2
140	Security Risks to Petroleum Industry: An Innovative Modeling Technique Based on Novel Concepts of Complex Bipolar Fuzzy Information. Mathematics, 2022, 10, 1067.	1.1	2
141	Means Algorithm. , 2007, , .		1
142	T-Transitive Interval-Valued Fuzzy Relations for Clustering. , 2012, , .		1
143	Cluster Analysis Based onT-transitive Interval-Valued Fuzzy Relations. International Journal of Intelligent Systems, 2015, 30, 1083-1100.	3.3	1
144	Feature-Weighted Fuzzy K-Modes Clustering. , 2019, , .		1

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145	Feature-Weighted Mountain Method with Its Application to Color Image Segmentation. Lecture Notes in Computer Science, 2010, , 537-544.	1.0	1
146	Correlative Density-Based Clustering. Journal of Computational and Theoretical Nanoscience, 2016, 13, 6935-6943.	0.4	1
147	Bias-Correction Fuzzy C-Regressions Algorithm. Lecture Notes in Computer Science, 2015, , 283-293.	1.0	1
148	A Learning-Based EM Clustering for Circular Data with Unknown Number of Clusters. Proceedings of Engineering and Technology Innovation, 0, 15, 42-51.	0.0	1
149	An Alternative Fuzzy Compactness and Separation Clustering Algorithm. Lecture Notes in Computer Science, 2005, , 146-153.	1.0	0
150	Mountain C-Regressions in Comparing Fuzzy C-Regressions. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	0
151	On parameter estimation of control chart patterns using RBF neural network. , 2009, , .		0
152	Segmentation in MRI of ophthalmology using a robust-type clustering algorithm. , 2009, , .		0
153	A similarity-based clustering algorithm for fuzzy data. , 2010, , .		0
154	Feature-Weighted Mountain Method with Its Application to Color Image Segmentation. International Journal of Computational Intelligence Systems, 2011, 4, 1002-1011.	1.6	0
155	On the generalized fuzzy-valued measures. , 2011, , .		0
156	A robust clustering algorithm for interval data. , 2012, , .		0
157	Clustering construction on a multimodal probability model. Information Sciences, 2013, 237, 211-220.	4.0	0
158	Subtractive Clustering for Categorical Data with a Novel Separation Difference Validity Index. Advances in Intelligent Systems and Computing, 2021, , 1695-1703.	0.5	0
159	SCM-driven Tree View for Microarray Data. Lecture Notes in Computer Science, 2014, , 207-215.	1.0	0
160	Spectral Clustering for Cell Formation with Minimum Dissimilarities Distance. Lecture Notes in Computer Science, 2017, , 126-136.	1.0	0
161	Gaussian-kernel c-means Clustering Algorithms. Lecture Notes in Computer Science, 2018, , 124-135.	1.0	0
162	Alpha-Cut Implemented Fuzzy Clustering Algorithms and Switching Regressions. IEEE Transactions on Systems, Man, and Cybernetics, 2009, , .	5.5	0