

# Fuyuan Xiao

## List of Publications by Year in descending order

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93  
papers

3,760  
citations

126907

33  
h-index

133252

59  
g-index

95  
all docs

95  
docs citations

95  
times ranked

1478  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-sensor data fusion based on the belief divergence measure of evidences and the belief entropy. Information Fusion, 2019, 46, 23-32.	19.1	447
2	Divergence measure of Pythagorean fuzzy sets and its application in medical diagnosis. Applied Soft Computing Journal, 2019, 79, 254-267.	7.2	206
3	A new divergence measure for belief functions in Dê€S evidence theory for multisensor data fusion. Information Sciences, 2020, 514, 462-483.	6.9	185
4	A Distance Measure for Intuitionistic Fuzzy Sets and Its Application to Pattern Classification Problems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3980-3992.	9.3	159
5	Generalization of Dempsterê€Shafer theory: A complex mass function. Applied Intelligence, 2020, 50, 3266-3275.	5.3	125
6	A Novel Conflict Measurement in Decision-Making and Its Application in Fault Diagnosis. IEEE Transactions on Fuzzy Systems, 2021, 29, 186-197.	9.8	110
7	EFMCDM: Evidential fuzzy multicriteria decision making based on belief entropy. IEEE Transactions on Fuzzy Systems, 2019, , 1-1.	9.8	106
8	CEQD: A Complex Mass Function to Predict Interference Effects. IEEE Transactions on Cybernetics, 2022, 52, 7402-7414.	9.5	102
9	A Multiple-Criteria Decision-Making Method Based on D Numbers and Belief Entropy. International Journal of Fuzzy Systems, 2019, 21, 1144-1153.	4.0	94
10	A novel method to use fuzzy soft sets in decision making based on ambiguity measure and Dempsterê€Shafer theory of evidence: An application in medical diagnosis. Artificial Intelligence in Medicine, 2016, 69, 1-11.	6.5	90
11	Generalized Divergence-based Decision Making Method with an Application to Pattern Classification. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	5.7	88
12	Modeling Sensor Reliability in Fault Diagnosis Based on Evidence Theory. Sensors, 2016, 16, 113.	3.8	79
13	An Improved Method for Combining Conflicting Evidences Based on the Similarity Measure and Belief Function Entropy. International Journal of Fuzzy Systems, 2018, 20, 1256-1266.	4.0	75
14	CED: A Distance for Complex Mass Functions. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1525-1535.	11.3	75
15	Information Quality for Intuitionistic Fuzzy Values with Its Application in Decision Making. Engineering Applications of Artificial Intelligence, 2022, 109, 104568.	8.1	75
16	An improved distance-based total uncertainty measure in belief function theory. Applied Intelligence, 2017, 46, 898-915.	5.3	73
17	Generalized belief function in complex evidence theory. Journal of Intelligent and Fuzzy Systems, 2020, 38, 3665-3673.	1.4	72
18	Evidence combination based on prospect theory for multi-sensor data fusion. ISA Transactions, 2020, 106, 253-261.	5.7	71

#	ARTICLE	IF	CITATIONS
19	CaFtR: A Fuzzy Complex Event Processing Method. International Journal of Fuzzy Systems, 2022, 24, 1098-1111.	4.0	71
20	A Novel Evidence Theory and Fuzzy Preference Approach-Based Multi-Sensor Data Fusion Technique for Fault Diagnosis. Sensors, 2017, 17, 2504.	3.8	70
21	Conflict management based on belief function entropy in sensor fusion. SpringerPlus, 2016, 5, 638.	1.2	66
22	A Weighted Combination Method for Conflicting Evidence in Multi-Sensor Data Fusion. Sensors, 2018, 18, 1487.	3.8	64
23	An improved gravity model to identify influential nodes in complex networks based on k-shell method. Knowledge-Based Systems, 2021, 227, 107198.	7.1	64
24	GIQ: A Generalized Intelligent Quality-Based Approach for Fusing Multisource Information. IEEE Transactions on Fuzzy Systems, 2021, 29, 2018-2031.	9.8	61
25	On the Maximum Entropy Negation of a Complex-Valued Distribution. IEEE Transactions on Fuzzy Systems, 2021, 29, 3259-3269.	9.8	58
26	Combining time-series evidence: A complex network model based on a visibility graph and belief entropy. Applied Intelligence, 2022, 52, 10706-10715.	5.3	50
27	Weighted Evidence Combination Based on Distance of Evidence and Entropy Function. International Journal of Distributed Sensor Networks, 2016, 12, 3218784.	2.2	47
28	Workflow scheduling in distributed systems under fuzzy environment. Journal of Intelligent and Fuzzy Systems, 2019, 37, 5323-5333.	1.4	46
29	A distance for belief functions of orderable set. Pattern Recognition Letters, 2021, 145, 165-170.	4.2	46
30	A generalized R�nyi divergence for multi-source information fusion with its application in EEG data analysis. Information Sciences, 2022, 605, 225-243.	6.9	40
31	A Fuzzy Interval Time-Series Energy and Financial Forecasting Model Using Network-Based Multiple Time-Frequency Spaces and the Induced-Ordered Weighted Averaging Aggregation Operation. IEEE Transactions on Fuzzy Systems, 2020, 28, 2677-2690.	9.8	39
32	A belief Hellinger distance for D�S evidence theory and its application in pattern recognition. Engineering Applications of Artificial Intelligence, 2021, 106, 104452.	8.1	39
33	Interval-valued intuitionistic fuzzy jenson-shannon divergence and its application in multi-attribute decision making. Applied Intelligence, 2022, 52, 16168-16184.	5.3	36
34	A Modified TOPSIS Method Based on $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle D \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Numbers and Its Applications in Human Resources Selection. Mathematical Problems in Engineering, 2016, 2016, 1-14.	1.1	32
35	Time Series Forecasting Based on Complex Network Analysis. IEEE Access, 2019, 7, 40220-40229.	4.2	32
36	An Evidential Failure Mode and Effects Analysis Using Linguistic Terms. Quality and Reliability Engineering International, 2017, 33, 993-1010.	2.3	31

#	ARTICLE	IF	CITATIONS
37	An Improved Method to Transform Triangular Fuzzy Number Into Basic Belief Assignment in Evidence Theory. IEEE Access, 2019, 7, 25308-25322.	4.2	31
38	An Improved Multisensor Data Fusion Method and Its Application in Fault Diagnosis. IEEE Access, 2019, 7, 3928-3937.	4.2	30
39	New parallel processing strategies in complex event processing systems with data streams. International Journal of Distributed Sensor Networks, 2017, 13, 155014771772862.	2.2	29
40	An Improved Multi-Source Data Fusion Method Based on the Belief Entropy and Divergence Measure. Entropy, 2019, 21, 611.	2.2	28
41	A Non-Parametric Method to Determine Basic Probability Assignment Based on Kernel Density Estimation. IEEE Access, 2018, 6, 73509-73519.	4.2	27
42	A novel belief $\chi^2$ divergence for multisource information fusion and its application in pattern classification. International Journal of Intelligent Systems, 2022, 37, 7968-7991.	5.7	26
43	Network self attention for forecasting time series. Applied Soft Computing Journal, 2022, 124, 109092.	7.2	22
44	An Intelligent Complex Event Processing with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{D} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Numbers under Fuzzy Environment. Mathematical Problems in Engineering, 2016, 2016, 1-10.	1.1	20
45	A New Distance for Intuitionistic Fuzzy Sets Based on Similarity Matrix. IEEE Access, 2019, 7, 70436-70446.	4.2	20
46	Negation of Belief Function Based on the Total Uncertainty Measure. Entropy, 2019, 21, 73.	2.2	20
47	A method for combining conflicting evidences with improved distance function and Tsallis entropy. International Journal of Intelligent Systems, 2020, 35, 1814-1830.	5.7	20
48	An interval-valued exceedance method in MCDM with uncertain satisfactions. International Journal of Intelligent Systems, 2019, 34, 2676-2691.	5.7	19
49	Efficient processing of multiple nested event pattern queries over multi-dimensional event streams based on a triaxial hierarchical model. Artificial Intelligence in Medicine, 2016, 72, 56-71.	6.5	18
50	Hybrid threshold adaptable quantum secret sharing scheme with reverse Huffman-Fibonacci-tree coding. Scientific Reports, 2016, 6, 31350.	3.3	18
51	A generalized $\chi^2$ divergence for multisource information fusion and its application in fault diagnosis. International Journal of Intelligent Systems, 2022, 37, 5-29.	5.7	18
52	An Intuitionistic Evidential Method for Weight Determination in FMEA Based on Belief Entropy. Entropy, 2019, 21, 211.	2.2	17
53	A Majority Rule-Based Measure for Atanassov-Type Intuitionistic Membership Grades in MCDM. IEEE Transactions on Fuzzy Systems, 2022, 30, 121-132.	9.8	16
54	An Evidential Aggregation Method of Intuitionistic Fuzzy Sets Based on Belief Entropy. IEEE Access, 2019, 7, 68905-68916.	4.2	14

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55	Time Series Data Fusion Based on Evidence Theory and OWA Operator. <i>Sensors</i> , 2019, 19, 1171.	3.8	14
56	A GMCDM approach with linguistic Z-numbers based on TOPSIS and Choquet integral considering risk preference. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020, 39, 4285-4298.	1.4	14
57	A novel method for forecasting time series based on directed visibility graph and improved random walk. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 594, 127029.	2.6	14
58	A New Distance Measure of Belief Function in Evidence Theory. <i>IEEE Access</i> , 2019, 7, 68607-68617.	4.2	13
59	FRKDE: A Hybrid Fuzzy Rule-Based Information Fusion Method with its Application in Biomedical Classification. <i>International Journal of Fuzzy Systems</i> , 2021, 23, 392-404.	4.0	13
60	A generalized belief interval-valued soft set with applications in decision making. <i>Soft Computing</i> , 2020, 24, 9339-9350.	3.6	12
61	A Generalized Golden Rule Representative Value for Multiple-Criteria Decision Analysis. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 3193-3204.	9.3	12
62	A new matrix game with payoffs of generalized Dempster-Shafer structures. <i>International Journal of Intelligent Systems</i> , 2019, 34, 2253-2268.	5.7	10
63	Improvement of Time Series Data Fusion Based on Evidence Theory and DEMATEL. <i>IEEE Access</i> , 2019, 7, 81397-81406.	4.2	10
64	Aggregation of uncertainty data based on ordered weighting aggregation and generalized information quality. <i>International Journal of Intelligent Systems</i> , 2019, 34, 1653-1666.	5.7	10
65	Bayesian Update with Information Quality under the Framework of Evidence Theory. <i>Entropy</i> , 2019, 21, 5.	2.2	10
66	TDIFS: Two dimensional intuitionistic fuzzy sets. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 95, 103882.	8.1	10
67	A fast evidential approach for stock forecasting. <i>International Journal of Intelligent Systems</i> , 2021, 36, 7544-7562.	5.7	10
68	A New Conflict Management in Evidence Theory Based on DEMATEL Method. <i>Journal of Sensors</i> , 2019, 2019, 1-12.	1.1	9
69	Conflicting management of evidence combination from the point of improvement of basic probability assignment. <i>International Journal of Intelligent Systems</i> , 2021, 36, 1914-1942.	5.7	9
70	Renyi extropy. <i>Communications in Statistics - Theory and Methods</i> , 2023, 52, 5836-5847.	1.0	7
71	An efficient forecasting method for time series based on visibility graph and multi-subgraph similarity. <i>Chaos, Solitons and Fractals</i> , 2022, 160, 112243.	5.1	7
72	An Adaptive Parallel Processing Strategy for Complex Event Processing Systems over Data Streams in Wireless Sensor Networks. <i>Sensors</i> , 2018, 18, 3732.	3.8	6

#	ARTICLE	IF	CITATIONS
73	Combine Conflicting Evidence Based on the Belief Entropy and IOWA Operator. IEEE Access, 2019, 7, 120724-120733.	4.2	6
74	An improved method to determine basic probability assignment with interval number and its application in classification. International Journal of Distributed Sensor Networks, 2019, 15, 155014771882052.	2.2	6
75	A Data-Driven Dynamic Data Fusion Method Based on Visibility Graph and Evidence Theory. IEEE Access, 2019, 7, 104443-104452.	4.2	5
76	An improved approach to generate generalized basic probability assignment based on fuzzy sets in the open world and its application in multi-source information fusion. Applied Intelligence, 2021, 51, 3718.	5.3	5
77	A novel dynamic weight allocation method for multisource information fusion. International Journal of Intelligent Systems, 2021, 36, 736-756.	5.7	5
78	Negation of Basic Probability Assignment: Trends of Dissimilarity and Dispersion. IEEE Access, 2019, 7, 111315-111323.	4.2	4
79	A new base function in basic probability assignment for conflict management. Applied Intelligence, 2022, 52, 4473-4487.	5.3	4
80	A novel complex evidential distance with its application in pattern recognition. Engineering Applications of Artificial Intelligence, 2021, 104, 104312.	8.1	4
81	A Novel Sensor Dynamic Reliability Evaluation Method and its Application in Multi-Sensor Information Fusion. IEEE Access, 2019, 7, 146144-146157.	4.2	3
82	On the maximum extropy negation of a probability distribution. Communications in Statistics Part B: Simulation and Computation, 2024, 53, 234-246.	1.2	3
83	An intuitionistic linguistic MCDM model based on probabilistic exceedance method and evidence theory. Applied Intelligence, 2020, 50, 1979-1995.	5.3	2
84	Information volume of mass function based on extropy. Soft Computing, 0, , 1.	3.6	2
85	Coding based broadcast for wireless layered video streaming. , 2015, , .		1
86	Memory aware broadcast for wireless real time applications. , 2015, , .		1
87	Parallel processing data streams in complex event processing systems. , 2017, , .		1
88	Complex belief interval-based distance measure with its application in pattern recognition. International Journal of Intelligent Systems, 2022, 37, 6811-6832.	5.7	1
89	High-capacity quantum key distribution using Chebyshev-map values corresponding to Lucas numbers coding. Quantum Information Processing, 2016, 15, 4663-4679.	2.2	0
90	Joint Coding and Scheduling Optimization in Wireless D2D Networks. , 2018, , .		0

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91	Tunable multi-party high-capacity quantum key distribution based on m-generalized Fibonacci sequences using golden coding. Quantum Information Processing, 2018, 17, 1.	2.2	0
92	Editorial on Special Issue: "Applications of Intelligent and Fuzzy Theory in Data Science". International Journal of Fuzzy Systems, 2021, 23, 492-493.	4.0	0
93	A Novel Reliability Evaluation Method for Complex Evidences. , 2021, , .		0