

Lotfi A Zadeh

List of Publications by Year in descending order

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71
papers

17,051
citations

185998

28
h-index

149479

56
g-index

73
all docs

73
docs citations

73
times ranked

7324
citing authors

#	ARTICLE	IF	CITATIONS
1	Outline of a New Approach to the Analysis of Complex Systems and Decision Processes. IEEE Transactions on Systems, Man, and Cybernetics, 1973, SMC-3, 28-44.	0.9	6,768
2	Toward a theory of fuzzy information granulation and its centrality in human reasoning and fuzzy logic. Fuzzy Sets and Systems, 1997, 90, 111-127.	1.6	2,465
3	Fuzzy logic, neural networks, and soft computing. Communications of the ACM, 1994, 37, 77-84.	3.3	1,307
4	Is there a need for fuzzy logic?. Information Sciences, 2008, 178, 2751-2779.	4.0	1,000
5	Toward a generalized theory of uncertainty (GTU)â€”an outline. Information Sciences, 2005, 172, 1-40.	4.0	920
6	A Note on Z-numbers. Information Sciences, 2011, 181, 2923-2932.	4.0	892
7	Mind over Machine: The Power of Human Intuition and Expertise in the Era of the Computer. IEEE Intelligent Systems, 1987, 2, 110-111.	1.1	503
8	FUZZY SETS. Advances in Fuzzy Systems, 1996, , 394-432.	8.7	465
9	Toward a perception-based theory of probabilistic reasoning with imprecise probabilities. Journal of Statistical Planning and Inference, 2002, 105, 233-264.	0.4	312
10	Generalized theory of uncertainty (GTU)â€”principal concepts and ideas. Computational Statistics and Data Analysis, 2006, 51, 15-46.	0.7	287
11	Fuzzy logicâ€”a personal perspective. Fuzzy Sets and Systems, 2015, 281, 4-20.	1.6	237
12	An Extension of Wiener's Theory of Prediction. Journal of Applied Physics, 1950, 21, 645-655.	1.1	231
13	Discussion: Probability Theory and Fuzzy Logic Are Complementary Rather Than Competitive. Technometrics, 1995, 37, 271-276.	1.3	206
14	Toward extended fuzzy logicâ€”A first step. Fuzzy Sets and Systems, 2009, 160, 3175-3181.	1.6	168
15	FUZZY SETS AND SYSTEMS*. International Journal of General Systems, 1990, 17, 129-138.	1.2	99
16	A Doctrine of Cognitive Informatics (CI). Fundamenta Informaticae, 2009, 90, 203-228.	0.3	91
17	A note on web intelligence, world knowledge and fuzzy logic. Data and Knowledge Engineering, 2004, 50, 291-304.	2.1	85
18	THE BIRTH AND EVOLUTION OF FUZZY LOGIC*. International Journal of General Systems, 1990, 17, 95-105.	1.2	69

#	ARTICLE	IF	CITATIONS
19	From imprecise to granular probabilities. Fuzzy Sets and Systems, 2005, 154, 370-374.	1.6	66
20	Chapter 9 From search engines to question answering systems " The problems of world knowledge, relevance, deduction and precisiation. Capturing Intelligence, 2006, 1, 163-210.	1.5	65
21	Discussion: Probability Theory and Fuzzy Logic Are Complementary Rather Than Competitive. , 0, .		62
22	Cognitive Intelligence. International Journal of Cognitive Informatics and Natural Intelligence, 2016, 10, 1-20.	0.4	61
23	The Determination of the Impulsive Response of Variable Networks. Journal of Applied Physics, 1950, 21, 642-645.	1.1	44
24	Fuzzy Logic, Neural Networks, and Soft Computing. Advances in Fuzzy Systems, 1996, , 775-782.	8.7	39
25	A note on similarity-based definitions of possibility and probability. Information Sciences, 2014, 267, 334-336.	4.0	39
26	Circuit Analysis of Linear Varying-Parameter Networks. Journal of Applied Physics, 1950, 21, 1171-1177.	1.1	33
27	A Simple View of the Dempster-Shafer Theory of Evidence and its Implication for the Rule of Combination. Advances in Fuzzy Systems, 1996, , 674-679.	8.7	33
28	Some Reflections on Information Granulation and its Centrality in Granular Computing, Computing with Words, the Computational Theory of Perceptions and Precisiated Natural Language. Studies in Fuzziness and Soft Computing, 2002, , 3-20.	0.6	33
29	On Stability of Linear Varying-Parameter Systems. Journal of Applied Physics, 1951, 22, 402-405.	1.1	32
30	From Computing with Numbers to Computing with Words: From Manipulation of Measurements to Manipulation of Perceptions. Studies in Fuzziness and Soft Computing, 2002, , 81-117.	0.6	29
31	From Computing with Numbers to Computing with Words. Annals of the New York Academy of Sciences, 2001, 929, 221-252.	1.8	28
32	Toward a restriction-centered theory of truth and meaning (RCT). Information Sciences, 2013, 248, 1-14.	4.0	28
33	Abstract Intelligence. International Journal of Cognitive Informatics and Natural Intelligence, 2017, 11, 1-15.	0.4	27
34	Special issue on granular computing and data mining. International Journal of Intelligent Systems, 2004, 19, 565-566.	3.3	25
35	Foreword to the Special Section on Computing With Words. IEEE Transactions on Fuzzy Systems, 2010, 18, 437-440.	6.5	24
36	Precisiated Natural Language. , 2007, , 33-59.		24

#	ARTICLE	IF	CITATIONS
37	The Information Principle. Information Sciences, 2015, 294, 540-549.	4.0	22
38	Fuzzy-Based Techniques in Human-Like Processing of Social Network Data. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2015, 23, 1-14.	0.9	21
39	From computing with numbers to computing with wordsâ€”from manipulation of measurements to manipulation of perceptions. AIP Conference Proceedings, 2001, , .	0.3	20
40	From Computing with Numbers to Computing with Wordsâ€”From Manipulation of Measurements to Manipulation of Perceptions. Lecture Notes in Computer Science, 2000, , 3-40.	1.0	16
41	A New Direction in AI Toward a Computational Theory of Perceptions. Studies in Fuzziness and Soft Computing, 2002, , 3-20.	0.6	15
42	Initial Conditions in Linear Varyingâ€”Parameter Systems. Journal of Applied Physics, 1951, 22, 782-786.	1.1	12
43	The role of fuzzy logic in modeling, identification and control. Advances in Fuzzy Systems, 1996, , 783-795.	8.7	11
44	On the Analysis of Large-Scale Systems. Advances in Fuzzy Systems, 1996, , 195-209.	8.7	10
45	Generalized Theory of Uncertainty: Principal Concepts and Ideas. , 2011, , 104-150.		10
46	A Very Simple Formula for Aggregation and Multicriteria Optimization. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2016, 24, 961-962.	0.9	9
47	Preliminary Draft Notes on a Similarity-Based Analysis of Time-Series with Applications to Prediction, Decision and Diagnostics. International Journal of Intelligent Systems, 2019, 34, 107-113.	3.3	8
48	Time-Dependent Heaviside Operators. Journal of Mathematics and Physics, 1951, 30, 73-78.	0.4	7
49	From Computing with Numbers to Computing with Words â€” From Manipulation of Measurements to Manipulation of Perceptions. , 2000, , 3-37.		7
50	Probability Criterion for the Design of Servomechanisms. Journal of Applied Physics, 1949, 20, 141-144.	1.1	6
51	Knowledge Representation in Fuzzy Logic. Advances in Fuzzy Systems, 1996, , 764-774.	8.7	6
52	Discussion: Probability Theory and Fuzzy Logic Are Complementary Rather Than Competitive. Advances in Fuzzy Systems, 1996, , 805-810.	8.7	6
53	The Birth and Evolution of Fuzzy Logic (FL), Soft Computing (SC) and Computing with Words (CW): A Personal Perspective. Advances in Fuzzy Systems, 1996, , 811-819.	8.7	5
54	Toward a Perception-Based Theory of Probabilistic Reasoning with Imprecise Probabilities. Advances in Intelligent and Soft Computing, 2002, , 27-61.	0.2	5

#	ARTICLE	IF	CITATIONS
55	Impact of Computers on the Orientation of Electrical Engineering Curricula. IEEE Transactions on Education, 1971, 14, 153-157.	2.0	4
56	Toward Human-Level Machine Intelligence. , 2006, , .		4
57	On the System Algebra Foundations for Granular Computing. , 0, , 98-121.		4
58	On the theory of filtration of signals. Zeitschrift Fur Angewandte Mathematik Und Physik, 1952, 3, 149-156.	0.7	3
59	Foreword: Fuzzy logic. Journal of Intelligent Information Systems, 1993, 2, 309-310.	2.8	3
60	Toward a perception-based theory of probabilistic reasoning with imprecise probabilities. , 2003, , 3-34.		3
61	DNA Algorithm of Image Recognition and its Application. , 2006, , .		3
62	FUZZY CONTROL, FUZZY GRAPHS, AND FUZZY INFERENCE. , 1995, , 1-9.		3
63	FUZZY PROBABILITIES. Advances in Fuzzy Systems, 1996, , 643-652.	8.7	2
64	A Computational Theory of Dispositions. Advances in Fuzzy Systems, 1996, , 713-737.	8.7	2
65	Outline of a restriction-centered theory of reasoning and computation in an environment of uncertainty and imprecision. , 2012, , .		2
66	Toward a restriction-centered theory of truth and meaning (RCT). , 2013, , .		2
67	Title is missing!. Journal of Japan Society for Fuzzy Theory and Systems, 1995, 7, 760-761.	0.0	0
68	FUZZY SYSTEMS THEORY: A Framework for the Analysis of Humanistic Systems. Advances in Fuzzy Systems, 1996, , 464-480.	8.7	0
69	Fuzzy Sets, Usuality and Commonsense Reasoning. Advances in Fuzzy Systems, 1996, , 738-758.	8.7	0
70	Abstract Intelligence. , 2020, , 52-69.		0
71	Cognitive Intelligence. , 2020, , 1500-1523.		0