

Basil K Papadopoulos

List of Publications by Year in descending order

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92
papers

878
citations

566801

15
h-index

552369

26
g-index

95
all docs

95
docs citations

95
times ranked

590
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid Fuzzy Multi-Criteria Analysis for Selecting Discrete Preferable Groundwater Recharge Sites. Water (Switzerland), 2022, 14, 107.	1.2	1
2	Generalization of Fuzzy Connectives. Axioms, 2022, 11, 130.	0.9	2
3	SAGMAD—A Signature Agnostic Malware Detection System Based on Binary Visualisation and Fuzzy Sets. Electronics (Switzerland), 2022, 11, 1044.	1.8	10
4	A Novel Construction Method of (OP) Polynomial and Rational Fuzzy Implications. Journal of Fuzzy Logic and Modeling in Engineering, 2022, 01, .	0.1	0
5	Relating Hydro-Meteorological Variables to Water Table in an Unconfined Aquifer via Fuzzy Linear Regression. Environments - MDPI, 2021, 8, 9.	1.5	2
6	Fuzzy p-Value of Hypotheses Tests with Crisp Data Using Non-Asymptotic Fuzzy Estimators. Journal of Stochastic Analysis, 2021, 2, .	0.1	1
7	Parametric Fuzzy Implications Produced via Fuzzy Negations with a Case Study in Environmental Variables. Symmetry, 2021, 13, 509.	1.1	6
8	Fuzzy hypotheses tests for crisp data using non-asymptotic fuzzy estimators, fuzzy critical values and a degree of rejection or acceptance. Evolving Systems, 2021, 12, 723-740.	2.4	1
9	Variables—™ classification via equivalence relations for the trophic state of a Mediterranean ecosystem. Water Environment Research, 2021, 93, 1846-1854.	1.3	2
10	Unbiased Fuzzy Estimators in Fuzzy Hypothesis Testing. Algorithms, 2021, 14, 185.	1.2	2
11	A Study of (T), (N) and (N^2 , T , N) Implications. Fuzzy Information and Engineering, 2021, 13, 277-295.	1.0	6
12	Fuzzy linear regression analysis for groundwater response to meteorological drought in the aquifer system of Xanthi plain, NE Greece. Journal of Hydroinformatics, 2021, 23, 1112-1129.	1.1	7
13	Safety aware fuzzy longitudinal controller for automated vehicles. Journal of Traffic and Transportation Engineering (English Edition), 2021, 8, 568-581.	2.0	6
14	A Study of GD— Implications, a New Hyper Class of Fuzzy Implications. Mathematics, 2021, 9, 1925.	1.1	4
15	Novel Construction of Copulas Based on ($\hat{1}$, $\hat{2}$) Transformation for Fuzzy Random Variables. Journal of Mathematics, 2021, 2021, 1-15.	0.5	2
16	Decision Making for Project Appraisal in Uncertain Environments: A Fuzzy-Possibilistic Approach of the Expanded NPV Method. Symmetry, 2021, 13, 27.	1.1	12
17	Fuzzy-statistical prediction intervals from crisp regression models. Evolving Systems, 2020, 11, 201-213.	2.4	7
18	A hybrid probabilistic bi-sector fuzzy regression based methodology for normal distributed hydrological variable. Evolving Systems, 2020, 11, 255-268.	2.4	8

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19	A method for the detection of the most suitable fuzzy implication for data applications. <i>Evolving Systems</i> , 2020, 11, 467-477.	2.4	2
20	Fuzzy Surrogate Safety Metrics for real-time assessment of rear-end collision risk. A study based on empirical observations. <i>Accident Analysis and Prevention</i> , 2020, 148, 105794.	3.0	32
21	Assessment of the Couple between the Historical Sample and the Theoretical Probability Distributions for Maximum flow Values Based on a Fuzzy Methodology. <i>Environmental Sciences Proceedings</i> , 2020, 2, 22.	0.3	2
22	The Use of Fuzzy Linear Regression and ANFIS Methods to Predict the Compressive Strength of Cement. <i>Symmetry</i> , 2020, 12, 1295.	1.1	15
23	An Algorithm for Fuzzy Negations Based-Intuitionistic Fuzzy Copula Aggregation Operators in Multiple Attribute Decision Making. <i>Algorithms</i> , 2020, 13, 154.	1.2	3
24	A Method of Generating Fuzzy Implications from n Increasing Functions and n + 1 Negations. <i>Mathematics</i> , 2020, 8, 886.	1.1	3
25	A Method of Generating Fuzzy Implications with Specific Properties. <i>Symmetry</i> , 2020, 12, 155.	1.1	11
26	Fuzzy reasoning in the investigation of seismic behavior. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 7747-7757.	1.2	5
27	An Application of Classical Logic's Laws in Formulas of Fuzzy Implications. <i>Journal of Mathematics</i> , 2020, 2020, 1-18.	0.5	6
28	Preservation of the Exchange Principle via Lattice Operations on (S,N) Implications. <i>IFIP Advances in Information and Communication Technology</i> , 2020, , 167-179.	0.5	0
29	New Construction Machines of Generating Fuzzy Implications. <i>Springer Optimization and Its Applications</i> , 2020, , 441-458.	0.6	0
30	Neuro-Fuzzy Networks and Their Applications in Medical Fields. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1194, 437-437.	0.8	0
31	Application of Algorithmic Fuzzy Implications on Climatic Data. <i>Proceedings of the International Neural Networks Society</i> , 2020, , 399-409.	0.6	1
32	Epidemics Fuzzy Decision-Making Applications and Fuzzy Genetic Algorithms Efficiency Enhancement. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1194, 73-80.	0.8	1
33	The Use of Fuzzy Estimators for the Construction of a Prediction Model Concerning an Environmental Ecosystem. <i>Sustainability</i> , 2019, 11, 5039.	1.6	3
34	Preface of the Second Symposium on Fuzzy Logic with Engineering Applications. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
35	A new approach in seismic behavior using fuzzy methods. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
36	The use of fuzzy sets for the determination of the optimal path between high-traffic locations of the city of Thessaloniki. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0

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37	Framework for fuzzy surrogate metrics for modeling road safety. AIP Conference Proceedings, 2019, , .	0.3	4
38	Determining the optimal path (Travelling Salesman Problem), using fuzzy sets, through 10 nodes in the city of Thessaloniki. AIP Conference Proceedings, 2019, , .	0.3	0
39	DDoS Attack Mitigation through Root-DNS Server: A Case Study. , 2019, , .		5
40	Yet another method of generating new implications from a given one implication. AIP Conference Proceedings, 2019, , .	0.3	0
41	Constructing fuzzy-statistical prediction intervals from crisp linear regression models. AIP Conference Proceedings, 2019, , .	0.3	2
42	Are four dimensions enough? A note on ambient cosmology. International Journal of Geometric Methods in Modern Physics, 2019, 16, 1950090.	0.8	1
43	Selection of the most appropriate implication via a set of data. AIP Conference Proceedings, 2019, , .	0.3	3
44	An Algorithm for Producing Fuzzy Negations via Conical Sections. Algorithms, 2019, 12, 89.	1.2	5
45	Towards a Fair and More Transparent Rule-Based Valuation of Travel Time Savings. Sustainability, 2019, 11, 962.	1.6	1
46	Local thresholding of degraded or unevenly illuminated documents using fuzzy inclusion and entropy measures. Evolving Systems, 2019, 10, 593-619.	2.4	12
47	On the Causal and Topological Structure of the 2-Dimensional Minkowski Space. Universe, 2019, 5, 70.	0.9	2
48	On Sliced Spaces: Global Hyperbolicity Revisited. Symmetry, 2019, 11, 304.	1.1	4
49	Global Image Thresholding Adaptive Neuro-Fuzzy Inference System Trained with Fuzzy Inclusion and Entropy Measures. Symmetry, 2019, 11, 286.	1.1	11
50	Fuzzy Solution to the Unconfined Aquifer Problem. Water (Switzerland), 2019, 11, 54.	1.2	7
51	Fuzzy logic systems and medical applications. AIMS Neuroscience, 2019, 6, 266-272.	1.0	36
52	The order on the light cone and its induced topology. International Journal of Geometric Methods in Modern Physics, 2018, 15, 1850069.	0.8	6
53	Producing fuzzy inclusion and entropy measures and their application on global image thresholding. Evolving Systems, 2018, 9, 331-353.	2.4	14
54	A fuzzy multicriteria categorization of the GALDIT method to assess seawater intrusion vulnerability of coastal aquifers. Science of the Total Environment, 2018, 621, 524-534.	3.9	67

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55	Preface for the Session "Fuzzy Logic with Engineering Applications", AIP Conference Proceedings, 2018, , .	0.3	0
56	Classification Of Road Accidents Using Fuzzy Techniques. , 2018, , .		1
57	Hybrid Fuzzy Probabilistic Analysis and Classification of the Hydrological Drought. Proceedings (mdpi), 2018, 2, .	0.2	3
58	A generalized method for fuzzy implication selection. AIP Conference Proceedings, 2018, , .	0.3	0
59	Fuzzy simulated annealing optimizing the circular path around Greek cities. AIP Conference Proceedings, 2018, , .	0.3	1
60	Binarization of texts with varying lighting conditions using fuzzy inclusion and entropy measures. AIP Conference Proceedings, 2018, , .	0.3	1
61	Seismic behavior using fuzzy methods. AIP Conference Proceedings, 2018, , .	0.3	2
62	Application of fuzzy equivalence relations in clustering of variables that affect the volume of construction activity. AIP Conference Proceedings, 2018, , .	0.3	0
63	On two topologies that were suggested by Zeeman. Mathematical Methods in the Applied Sciences, 2018, 41, 7742-7747.	1.2	5
64	Constructing fuzzy numbers from arbitrary statistical intervals. , 2018, , .		2
65	A Hybrid Fuzzy Regression-Based Methodology for Normal Distribution (Case Study: Cumulative) Tj ETQq1 1 0.784314 rgBT /Overlock 0.5 3		3
66	Fuzzy Implications Generating from Fuzzy Negations. Lecture Notes in Computer Science, 2018, , 736-744.	1.0	3
67	A Method for the Detection of the Most Suitable Fuzzy Implication for Data Applications. Communications in Computer and Information Science, 2017, , 242-255.	0.4	5
68	Application of Fuzzy Sets for the Improvement of Routing Optimization Heuristic Algorithms. Transport and Telecommunication, 2016, 17, 350-361.	0.7	3
69	Models of Fuzzy Linear Regression: An Application in Engineering. Springer Optimization and Its Applications, 2016, , 693-713.	0.6	3
70	Assessment of annual hydrological drought based on fuzzy estimators. , 2016, , 1047-1051.		2
71	Penetrability of microfine cement grouts: experimental investigation and fuzzy regression modeling. Canadian Geotechnical Journal, 2015, 52, 868-882.	1.4	35
72	Possibilistic Moments for the Task Duration in Fuzzy PERT. Journal of Management in Engineering - ASCE, 2015, 31, .	2.6	12

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73	A METHOD FOR THE EVALUATION AND SELECTION OF AN APPROPRIATE FUZZY IMPLICATION BY USING STATISTICAL DATA. Fuzzy Economic Review, 2015, 20, .	0.4	11
74	Forecast of tourism demand with the use of fuzzy and cointegration econometric techniques. Journal of Computational Methods in Sciences and Engineering, 2014, 14, 245-257.	0.1	2
75	Approaching activity duration in PERT by means of fuzzy sets theory and statistics. Journal of Intelligent and Fuzzy Systems, 2014, 26, 577-587.	0.8	8
76	Hybrid (fuzzy-stochastic) modelling in construction operations management. International Journal of Machine Learning and Cybernetics, 2013, 4, 339-346.	2.3	6
77	Real time DDoS detection using fuzzy estimators. Computers and Security, 2012, 31, 782-790.	4.0	69
78	Fuzzy Performance Evaluation of Workflow Stochastic Petri Nets by Means of Block Reduction. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 352-362.	3.4	17
79	On theoretical pricing of options with fuzzy estimators. Journal of Computational and Applied Mathematics, 2009, 223, 552-566.	1.1	52
80	Costâ€“volumeâ€“profit analysis under uncertainty: a model with fuzzy estimators based on confidence intervals. International Journal of Production Research, 2009, 47, 5977-5999.	4.9	17
81	On the fuzzy difference equations of finance. Fuzzy Sets and Systems, 2008, 159, 3259-3270.	1.6	46
82	Cost and Land Functions for Wastewater Treatment Projects: Typical Simple Linear Regression versus Fuzzy Linear Regression. Journal of Environmental Engineering, ASCE, 2007, 133, 581-586.	0.7	16
83	Distance and similarity measures for fuzzy operators. Information Sciences, 2007, 177, 2336-2348.	4.0	48
84	Computational method to evaluate fuzzy arithmetic operations. Applied Mathematics and Computation, 2007, 185, 169-177.	1.4	20
85	Similarities and distances in fuzzy regression modeling. Soft Computing, 2004, 8, 556-561.	2.1	20
86	On the fuzzy difference equation $x_{n+1} = A+B/x_n$. Soft Computing, 2002, 6, 456-461.	2.1	47
87	On the fuzzy difference equation $x_{n+1}=A+x_n/x_n^m$. Fuzzy Sets and Systems, 2002, 129, 73-81.	1.6	56
88	FUZZY SETS AND FUZZY RELATIONAL STRUCTURES AS CHU SPACES. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2000, 08, 471-479.	0.9	8
89	(Quasi)-uniformities on the set of bounded maps. International Journal of Mathematics and Mathematical Sciences, 1994, 17, 693-696.	0.3	3
90	A topological lattice on the set of multifunctions. International Journal of Mathematics and Mathematical Sciences, 1989, 12, 665-668.	0.3	0

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91	THE INDUCED H-STRUCTURE ON FUNCTION SPACES. <i>Quaestiones Mathematicae</i> , 1989, 12, 359-374.	0.2	0
92	A hybrid fuzzy frequency factor based methodology for analyzing the hydrological drought. , 0, 167, 385-397.		5