Vassilis George Kaburlasos

List of Publications by Year
in descending order

73	1,867	257101 24	276539 41
papers	citations	h-index	g-index

78	78	78	892
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Distance and similarity measures between intuitionistic fuzzy sets: A comparative analysis from a pattern recognition point of view. Pattern Recognition Letters, 2013, 34, 1609-1622.	2.6	166
2	Machine Vision Systems in Precision Agriculture for Crop Farming. Journal of Imaging, 2019, 5, 89.	1.7	152
3	A novel distance measure of intuitionistic fuzzy sets and its application to pattern recognition problems. International Journal of Intelligent Systems, 2012, 27, 396-409.	3.3	132
4	Fuzzy lattice reasoning (FLR) classifier and its application for ambient ozone estimation. International Journal of Approximate Reasoning, 2007, 45, 152-188.	1.9	108
5	Evaluation of shape descriptors for shape-based image retrieval. IET Image Processing, 2011, 5, 493.	1.4	92
6	Fuzzy lattice neural network (FLNN): a hybrid model for learning. IEEE Transactions on Neural Networks, 1998, 9, 877-890.	4.8	87
7	A Comparison of Word- and Sense-Based Text Categorization Using Several Classification Algorithms. Journal of Intelligent Information Systems, 2003, 21, 227-247.	2.8	71
8	An Overview of Cooperative Robotics in Agriculture. Agronomy, 2021, 11, 1818.	1.3	68
9	Lattice Computing Extension of the FAM Neural Classifier for Human Facial Expression Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1526-1538.	7.2	54
10	Fuzzy Inference System (FIS) Extensions Based on the Lattice Theory. IEEE Transactions on Fuzzy Systems, 2014, 22, 531-546.	6.5	54
11	A lattice computing approach to Alzheimerâ€™s disease computer assisted diagnosis based on MRI data. Neurocomputing, 2015, 150, 37-42.	3.5	54
12	Piecewise-linear approximation of non-linear models based on probabilistically/possibilistically interpreted intervalsâ€™ numbers (INs). Information Sciences, 2010, 180, 5060-5076.	4.0	49
13	Learning Distributions of Image Features by Interactive Fuzzy Lattice Reasoning in Pattern Recognition Applications. IEEE Computational Intelligence Magazine, 2015, 10, 42-51.	3.4	41
14	Clustering and classification in structured data domains using Fuzzy Lattice Neurocomputing (FLN). IEEE Transactions on Knowledge and Data Engineering, 2001, 13, 245-260.	4.0	40
15	A granular extension of the fuzzy-ARTMAP (FAM) neural classifier based on fuzzy lattice reasoning (FLR). Neurocomputing, 2009, 72, 2067-2078.	3.5	40
16	Learning in the framework of fuzzy lattices. IEEE Transactions on Fuzzy Systems, 1999, 7, 422-440.	6.5	36
17	FINs: Lattice Theoretic Tools for Improving Prediction of Sugar Production From Populations of Measurements. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1017-1030.	5.5	35
18	Granular self-organizing map (grSOM) for structure identification. Neural Networks, 2006, 19, 623-643.	3.3	34

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19	Social Robots in Special Education: A Systematic Review. Electronics (Switzerland), 2021, 10, 1398.	1.8	32
20	A Lattice-Computing ensemble for reasoning based on formal fusion of disparate data types, and an industrial dispensing application. Information Fusion, 2014, 16, 68-83.	11.7	31
21	An Autonomous Grape-Harvester Robot: Integrated System Architecture. Electronics (Switzerland), 2021, 10, 1056.	1.8	29
22	Grape stem detection using regression convolutional neural networks. Computers and Electronics in Agriculture, 2021, 186, 106220.	3.7	26
23	Novel Fuzzy Inference System (FIS) Analysis and Design Based on Lattice Theory. IEEE Transactions on Fuzzy Systems, 2007, 15, 243-260.	6.5	25
24	Binary Image 2D Shape Learning and Recognition Based on Lattice-Computing (LC) Techniques. Journal of Mathematical Imaging and Vision, 2012, 42, 118-133.	0.8	24
25	On Measuring Engagement Level During Child-Robot Interaction in Education. Advances in Intelligent Systems and Computing, 2020, , 3-13.	0.5	22
26	Fuzzy lattice reasoning (FLR) type neural computation for weighted graph partitioning. Neurocomputing, 2009, 72, 2121-2133.	3.5	21
27	gsaINknn: A GSA optimized, lattice computing knn classifier. Engineering Applications of Artificial Intelligence, 2014, 35, 277-285.	4.3	21
28	Distance Special Education Delivery by Social Robots. Electronics (Switzerland), 2020, 9, 1034.	1.8	21
29	A Genetic Based Approach to the Type I Structure Identification Problem. Informatica, 2005, 16, 365-382.	1.5	21
30	Machine Vision for Ripeness Estimation in Viticulture Automation. Horticulturae, 2021, 7, 282.	1.2	19
31	Novel fuzzy inference system (FIS) analysis and design based on lattice theory. Part I: Working principles. International Journal of General Systems, 2006, 35, 45-67.	1.2	17
32	Social Robots for Pedagogical Rehabilitation. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2019, , 1-21.	0.5	15
33	An architecture for an adaptive assessment tool. Proceedings - Frontiers in Education Conference, FIE, 2007, , .	0.0	12
34	WINkNN: Windowed Intervalsâ€™ Number kNN Classifier for Efficient Time-Series Applications. Mathematics, 2020, 8, 413.	1.1	12
35	Granular Enhancement of Fuzzy ART/SOM Neural Classifiers Based on Lattice Theory. , 2007, , 3-23.		11
36	Toward Robot-Assisted Psychosocial Intervention for Children with Autism Spectrum Disorder (ASD). Lecture Notes in Computer Science, 2019, , 484-493.	1.0	9

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37	Personalized multi-student improvement based on Bayesian cybernetics. Computers and Education, 2008, 51, 1430-1449.	5.1	8
38	Estimating Children Engagement Interacting with Robots in Special Education Using Machine Learning. Mathematical Problems in Engineering, 2021, 2021, 1-10.	0.6	8
39	Social Robots in Special Education: Current Status and Future Challenges. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2018, 2018, 1P1-A15.	0.0	8
40	Granule-Based-Classifier (GbC): A Lattice Computing Scheme Applied on Tree Data Structures. Mathematics, 2021, 9, 2889.	1.1	8
41	Robotics and information technologies in education: four countries from Alpe-Adria-Danube Region survey. International Journal of Technology and Design Education, 2022, 32, 749-771.	1.7	7
42	Behavioral Data Analysis of Robot-Assisted Autism Spectrum Disorder (ASD) Interventions Based on Lattice Computing Techniques. Sensors, 2022, 22, 621.	2.1	7
43	Lattice computing (LC) meta-representation for pattern classification. , 2014, , .		6
44	Time Series Classification in Cyber-Physical System Applications by Intervalsâ€™ Numbers Techniques. , 2019, , .		6
45	Semantic Segmentation of Vineyard Images Using Convolutional Neural Networks. Proceedings of the International Neural Networks Society, 2020, , 292-303.	0.6	6
46	INDUCTION OF CLASSIFICATION RULES FROM HISTOGRAMS. , 2007, , 1646-1652.		6
47	Lattice Computing: A Mathematical Modelling Paradigm for Cyber-Physical System Applications. Mathematics, 2022, 10, 271.	1.1	6
48	A granular, parametric KNN classifier. , 2013, , .		5
49	GRANULAR GRAPH CLUSTERING IN THE WEB. , 2007, , 1639-1645.		5
50	Modeling in Cyber-Physical Systems by Lattice Computing Techniques: The Case of Image Watermarking Based on Intervalsâ€™ Numbers. , 2018, , .		4
51	Brain Signals Classification Based on Fuzzy Lattice Reasoning. Mathematics, 2021, 9, 1063.	1.1	4
52	Identifying Linguistic Cues; Towards Developing Robots With Empathy in Autism Interventions. Journal of Clinical Medicine of Kazakhstan, 2020, 2, 27-33.	0.1	4
53	Harvest Crate Detection for Grapes Harvesting Robot Based on YOLOv3 Model. , 2020, , .		4
54	Towards Robot-Assisted Therapy for Children With Autismâ€”The Ontological Knowledge Models and Reinforcement Learning-Based Algorithms. Frontiers in Robotics and AI, 2022, 9, 713964.	2.0	4

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55	FCknn: A granular knn classifier based on formal concepts. , 2014, , .		3
56	Navigation Route Mapping for Harvesting Robots in Vineyards Using UAV-based Remote Sensing. , 2020, , .		3
57	Time-Series of Distributions Forecasting in Agricultural Applications: An Intervalsâ€™ Numbers Approach. Engineering Proceedings, 2021, 5, 12.	0.4	3
58	Time-Series of Distributions Forecasting in Agricultural Applications: An Intervalsâ€™ Numbers Approach. Engineering Proceedings, 2021, 5, 12.	0.4	3
59	A Non-Destructive Method for Grape Ripeness Estimation Using Intervalsâ€™ Numbers (INs) Techniques. Agronomy, 2022, 12, 1564.	1.3	3
60	Granular Fuzzy Inference System (FIS) Design by Lattice Computing. Lecture Notes in Computer Science, 2010, , 410-417.	1.0	2
61	Head Pose Estimation Using Lattice Computing Techniques. , 2020, , .		2
62	Unified Analysis and Design of ART/SOM Neural Networks and Fuzzy Inference Systems Based on Lattice Theory. , 2007, , 80-93.		2
63	Forward Kinematic Analysis of JACO2 Robotic Arm Towards Implementing a Grapes Harvesting Robot. , 2020, , .		2
64	A Review of the State-of-Art, Limitations, and Perspectives of Machine Vision for Grape Ripening Estimation. Engineering Proceedings, 2021, 9, .	0.4	2
65	Yield Estimation in Vineyards Using Intervalsâ€™ Numbers Techniques. , 2021, , .		2
66	Granular self-organizing map (grSOM) neural network for industrial quality control. , 2005, , .		1
67	Work in Progress: Practical Computerized Adaptive Assessment based on Bayesian decision theory. , 2006, , .		1
68	Fuzzy Lattice Reasoning (FLR) Extensions to Lattice-Valued Logic. , 2012, , .		1
69	Neural/Fuzzy Computing Based on Lattice Theory. , 2009, , 1238-1243.		1
70	Bayesian Decision Theory for Multiâ€Category Adaptive Testing. , 2008, , .		0
71	A Software Toolbox for Behavioral Analysis in Robot-Assisted Special Education. , 2021, , .		0
72	Social Robots for Pedagogical Rehabilitation. , 2022, , 800-820.		0

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73	Structured Human-Head Pose Representation for Estimation Using Fuzzy Lattice Reasoning (FLR). , 2020, , .		0