Ferdinando Di Martino

List of Publications by Year
in descending order

85 papers	1,092 citations	471509 17 h-index
101 all docs	101 docs citations	101 times ranked

434195 31 g-index
564 citing authors

#	Article	IF	Citations
1	An image coding/decoding method based on direct and inverse fuzzy transforms. International Journal of Approximate Reasoning, 2008, 48, 110-131.	3.3	158
2	Fuzzy transforms method in prediction data analysis. Fuzzy Sets and Systems, 2011, 180, 146-163.	2.7	71
3	Fragile watermarking tamper detection with images compressed by fuzzy transform. Information Sciences, 2012, 195, 62-90.	6.9	66
4	Fuzzy transforms method and attribute dependency in data analysis. Information Sciences, 2010, 180, 493-505.	6.9	63
5	A segmentation method for images compressed by fuzzy transforms. Fuzzy Sets and Systems, 2010, 161, 56-74.	2.7	56
6	Compression and decompression of images with discrete fuzzy transforms. Information Sciences, 2007, 177, 2349-2362.	6.9	54
7	A climate vulnerability and impact assessment model for complex urban systems. Environmental Science and Policy, 2019, 93, 11-26.	4.9	47
8	Fuzzy transforms for compression and decompression of color videos. Information Sciences, 2010, 180, 3914-3931.	6.9	41
9	PSO image thresholding on images compressed via fuzzy transforms. Information Sciences, 2020, 506, 308-324.	6.9	35
10	The extended fuzzy C-means algorithm for hotspots in spatio-temporal GIS. Expert Systems With Applications, 2011, 38, 11829-11836.	7.6	31
11	A color image reduction based on fuzzy transforms. Information Sciences, 2014, 266, 101-111.	6.9	30
12	A fuzzy-based tool for modelization and analysis of the vulnerability of aquifers: a case study. International Journal of Approximate Reasoning, 2005, 38, 99-111.	3.3	25
13	Spatial Analysis and Fuzzy Relation Equations. Advances in Fuzzy Systems, 2011, 2011, 1-14.	0.9	23
14	Image reduction method based on the F-transform. Soft Computing, 2017, 21, 1847-1861.	3.6	23
15	A lightweight clustering–based approach to discover different emotional shades from social message streams. International Journal of Intelligent Systems, 2019, 34, 1505-1523.	5.7	22
16	A novel quantum inspired genetic algorithm to initialize cluster centers in fuzzy C-means. Expert Systems With Applications, 2022, 191, 116340.	7.6	21
17	Spatiotemporal extended fuzzy C-means clustering algorithm for hotspots detection and prediction. Fuzzy Sets and Systems, 2018, 340, 109-126.	2.7	19
18	Fuzzy Relation Equations for Compression/Decompression Processes of Colour Images in the RGB and YUV Colour Spaces. Fuzzy Optimization and Decision Making, 2005, 4, 235-246.	5.5	18

#	Article	IF	Citations
19	Digital watermarking in coding/decoding processes with fuzzy relation equations. Soft Computing, 2006, 10, 238-243.	3.6	17
20	A Novel Fuzzy Entropy-Based Method to Improve the Performance of the Fuzzy C-Means Algorithm. Electronics (Switzerland), 2020, 9, 554.	3.1	16
21	Spatio-temporal hotspots and application on a disease analysis case via GIS. Soft Computing, 2014, 18, 2377-2384.	3.6	15
22	Extended fuzzy C-means clustering algorithm for hotspot events in spatial analysis. International Journal of Hybrid Intelligent Systems, 2008, 5, 31-44.	1.2	13
23	Complete image fusion method based on fuzzy transforms. Soft Computing, 2019, 23, 2113-2123.	3.6	12
24	A fuzzy particle swarm optimization algorithm and its application to hotspot events in spatial analysis. Journal of Ambient Intelligence and Humanized Computing, 2013, 4, 85-97.	4.9	11
25	Type-2 interval fuzzy rule-based systems in spatial analysis. Information Sciences, 2014, 279, 199-212.	6.9	11
26	Multi-species PSO and fuzzy systems of Takagiâ€"Sugenoâ€"Kang type. Information Sciences, 2014, 267, 240-251.	6.9	11
27	Extended Fuzzy C-Means hotspot detection method for large and very large event datasets. Information Sciences, 2018, 441, 198-215.	6.9	9
28	Fragile watermarking tamper detection via bilinear fuzzy relation equations. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 2041-2061.	4.9	9
29	Multi-level fuzzy transforms image compression. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 2745-2756.	4.9	8
30	Improving the emotionâ€based classification by exploiting the fuzzy entropy in FCM clustering. International Journal of Intelligent Systems, 2021, 36, 6944-6967.	5.7	8
31	Image Matching by Using Fuzzy Transforms. Advances in Fuzzy Systems, 2013, 2013, 1-10.	0.9	7
32	A fuzzy partition-based method to classify social messages assessing their emotional relevance. Information Sciences, 2022, 594, 60-75.	6.9	7
33	Fuzzy transforms prediction in spatial analysis and its application to demographic balance data. Soft Computing, 2017, 21, 3537-3550.	3.6	6
34	GIS-based hierarchical fuzzy multicriteria decision-making method for urban planning. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 601-615.	4.9	6
35	A Summary of F-Transform Techniques in Data Analysis. Electronics (Switzerland), 2021, 10, 1771.	3.1	6
36	A Genetic Algorithm Based on Eigen Fuzzy Sets for Image Reconstruction. Lecture Notes in Computer Science, 2007, , 342-348.	1.3	5

#	Article	IF	Citations
37	WebGIS based on spatio-temporal hot spots: an application to oto-laryngo-pharyngeal diseases. Soft Computing, 2016, 20, 2135-2147.	3.6	5
38	Time Series Seasonal Analysis Based on Fuzzy Transforms. Symmetry, 2017, 9, 281.	2.2	5
39	Comparison between images via bilinear fuzzy relation equations. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 1517-1525.	4.9	5
40	A New Validity Index Based on Fuzzy Energy and Fuzzy Entropy Measures in Fuzzy Clustering Problems. Entropy, 2020, 22, 1200.	2.2	5
41	New Relation-Theoretic Fixed Point Theorems in Fuzzy Metric Spaces with an Application to Fractional Differential Equations. Axioms, 2022, 11, 117.	1.9	5
42	Spatiotemporal Hotspots Analysis for Exploring the Evolution of Diseases: An Application to Oto-Laryngopharyngeal Diseases. Advances in Fuzzy Systems, 2013, 2013, 1-7.	0.9	4
43	A New Geospatial Model Integrating a Fuzzy Rule-Based System in a GIS Platform to Partition a Complex Urban System in Homogeneous Urban Contexts. Geosciences (Switzerland), 2018, 8, 440.	2.2	4
44	Fuzzy-Based Spatiotemporal Hot Spot Intensity and Propagation—An Application in Crime Analysis. Electronics (Switzerland), 2022, 11, 370.	3.1	4
45	Detection of Fuzzy Association Rules by Fuzzy Transforms. Advances in Fuzzy Systems, 2012, 2012, 1-12.	0.9	3
46	Coding B-Frames of Color Videos with Fuzzy Transforms. Advances in Fuzzy Systems, 2013, 2013, 1-9.	0.9	3
47	Energy and Entropy Measures of Fuzzy Relations for Data Analysis. Entropy, 2018, 20, 424.	2.2	3
48	Seasonal Time Series Forecasting by F1-Fuzzy Transform. Sensors, 2019, 19, 3611.	3.8	3
49	A Fast Multilevel Fuzzy Transform Image Compression Method. Axioms, 2019, 8, 135.	1.9	3
50	Balancing the user-driven feature selection and their incidence in the clustering structure formation. Applied Soft Computing Journal, 2021, 98, 106854.	7.2	3
51	GIS-based fuzzy sentiment analysis framework to classify urban elements according to the orientations of citizens and tourists expressed in social networks. Evolutionary Intelligence, 2022, 15, 1959-1968.	3.6	3
52	A classification algorithm based on multi-dimensional fuzzy transforms. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	4.9	3
53	A GIS-Based Fuzzy Multiclassification Framework Applied for Spatiotemporal Analysis of Phenomena in Urban Contexts. Information (Switzerland), 2022, 13, 248.	2.9	3
54	GIS-Based Model for Constructing Ecological Efficiency Maps of Urban Green Areas: The Case Study of Western Naples, Italy. Sustainability, 2022, 14, 6830.	3.2	3

#	Article	IF	Citations
55	Eigen Fuzzy Sets and Image Information Retrieval. , 0, , 863-872.		2
56	A Method Based on Extended Fuzzy Transforms to Approximate Fuzzy Numbers in Mamdani Fuzzy Rule-Based System. Advances in Fuzzy Systems, 2018, 2018, 1-16.	0.9	2
57	Extended Gustafsonâ€"Kessel granular hotspot detection. Granular Computing, 2020, 5, 85-95.	8.0	2
58	Hierarchical granular hotspots detection. Soft Computing, 2020, 24, 1357-1376.	3.6	2
59	Eigen Fuzzy Sets and their Application to Evaluate the Effectiveness of Actions in Decision Problems. Mathematics, 2020, 8, 1999.	2.2	2
60	Bit Reduced FCM with Block Fuzzy Transforms for Massive Image Segmentation. Information (Switzerland), 2020, 11, 351.	2.9	2
61	A Fuzzy Rule-Based GIS Framework to Partition an Urban System Based on Characteristics of Urban Greenery in Relation to the Urban Context. Applied Sciences (Switzerland), 2020, 10, 8781.	2.5	2
62	Fuzzy Entropy-Based Spatial Hotspot Reliability. Entropy, 2021, 23, 531.	2.2	2
63	Attribute dependency data analysis for massive datasets by fuzzy transforms. Soft Computing, 2021, 25, 8731-8746.	3.6	2
64	Fuzzy Systems Based on Multispecies PSO Method in Spatial Analysis. Advances in Fuzzy Systems, 2012, 2012, 1-8.	0.9	1
65	Hotspots Detection in Spatial Analysis via the Extended Gustafson-Kessel Algorithm. Advances in Fuzzy Systems, 2013, 2013, 1-7.	0.9	1
66	Fuzzy Methods for Data Analysis. Advances in Fuzzy Systems, 2015, 2015, 1-1.	0.9	1
67	Fuzzy Transforms and Seasonal Time Series. Lecture Notes in Computer Science, 2017, , 54-62.	1.3	1
68	Bilinear equations and fuzzy image comparison. , 2017, , .		1
69	Fuzzy Transform for Image Fusion and Edge Detection. , 2020, , 61-79.		1
70	Fuzzy Functions, Relations, and Fuzzy Transforms (2012). Advances in Fuzzy Systems, 2012, 2012, 1-2.	0.9	0
71	Fuzzy Reliability in Spatial Databases. Advances in Fuzzy Systems, 2013, 2013, 1-9.	0.9	0
72	Fuzzy Functions, Relations, and Fuzzy Transforms 2013. Advances in Fuzzy Systems, 2013, 2013, 1-1.	0.9	0

#	Article	IF	Citations
73	Passive image autofocus by using direct fuzzy transform. International Journal of Computational Science and Engineering, 2019, 20, 240.	0.5	0
74	Fuzzy Transform for Analyzing Massive Datasets. , 2020, , 193-211.		0
75	Fuzzy Transform for Image Segmentation. , 2020, , 81-102.		0
76	Fuzzy Transforms Applied in Seasonal Time Series Analysis. , 2020, , 153-171.		0
77	Fuzzy Transform Concepts. , 2020, , 1-14.		0
78	Fuzzy Transforms in Prevision Analysis. , 2020, , 137-152.		0
79	Fuzzy Transform for Image and Video Compression. , 2020, , 27-48.		0
80	Fuzzy Transform Technique for Image Autofocus. , 2020, , 49-60.		0
81	Fuzzy Transforms for Image Watermarking and Image Autofocus. , 2020, , 103-121.		0
82	Semi-supervised Feature Selection Method for Fuzzy Clustering of Emotional States from Social Streams Messages. Learning and Analytics in Intelligent Systems, 2022, , 9-25.	0.6	0
83	A GIS-based framework using fuzzy relation equation system solutions in urban planning. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	4.9	0
84	Proving Fixed-Point Theorems Employing Fuzzy ($\ddot{I}f$,?)-Contractive-Type Mappings. Algorithms, 2022, 15, 141.	2.1	0
85	A computational framework to support the treatment of bedsores during COVID-19 diffusion. Journal of Ambient Intelligence and Humanized Computing, 2024, 15, 219-229.	4.9	0