

# Ferdinando Di Martino

## List of Publications by Year in descending order

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85  
papers

1,092  
citations

471061

17  
h-index

433756

31  
g-index

101  
all docs

101  
docs citations

101  
times ranked

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.	1.9	158
2	Fuzzy transforms method in prediction data analysis. Fuzzy Sets and Systems, 2011, 180, 146-163.	1.6	71
3	Fragile watermarking tamper detection with images compressed by fuzzy transform. Information Sciences, 2012, 195, 62-90.	4.0	66
4	Fuzzy transforms method and attribute dependency in data analysis. Information Sciences, 2010, 180, 493-505.	4.0	63
5	A segmentation method for images compressed by fuzzy transforms. Fuzzy Sets and Systems, 2010, 161, 56-74.	1.6	56
6	Compression and decompression of images with discrete fuzzy transforms. Information Sciences, 2007, 177, 2349-2362.	4.0	54
7	A climate vulnerability and impact assessment model for complex urban systems. Environmental Science and Policy, 2019, 93, 11-26.	2.4	47
8	Fuzzy transforms for compression and decompression of color videos. Information Sciences, 2010, 180, 3914-3931.	4.0	41
9	PSO image thresholding on images compressed via fuzzy transforms. Information Sciences, 2020, 506, 308-324.	4.0	35
10	The extended fuzzy C-means algorithm for hotspots in spatio-temporal GIS. Expert Systems With Applications, 2011, 38, 11829-11836.	4.4	31
11	A color image reduction based on fuzzy transforms. Information Sciences, 2014, 266, 101-111.	4.0	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.	1.9	25
13	Spatial Analysis and Fuzzy Relation Equations. Advances in Fuzzy Systems, 2011, 2011, 1-14.	0.6	23
14	Image reduction method based on the F-transform. Soft Computing, 2017, 21, 1847-1861.	2.1	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.	3.3	22
16	A novel quantum inspired genetic algorithm to initialize cluster centers in fuzzy C-means. Expert Systems With Applications, 2022, 191, 116340.	4.4	21
17	Spatiotemporal extended fuzzy C-means clustering algorithm for hotspots detection and prediction. Fuzzy Sets and Systems, 2018, 340, 109-126.	1.6	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.	3.4	18

#	ARTICLE	IF	CITATIONS
19	Digital watermarking in coding/decoding processes with fuzzy relation equations. <i>Soft Computing</i> , 2006, 10, 238-243.	2.1	17
20	A Novel Fuzzy Entropy-Based Method to Improve the Performance of the Fuzzy C-Means Algorithm. <i>Electronics (Switzerland)</i> , 2020, 9, 554.	1.8	16
21	Spatio-temporal hotspots and application on a disease analysis case via GIS. <i>Soft Computing</i> , 2014, 18, 2377-2384.	2.1	15
22	Extended fuzzy C-means clustering algorithm for hotspot events in spatial analysis. <i>International Journal of Hybrid Intelligent Systems</i> , 2008, 5, 31-44.	0.9	13
23	Complete image fusion method based on fuzzy transforms. <i>Soft Computing</i> , 2019, 23, 2113-2123.	2.1	12
24	A fuzzy particle swarm optimization algorithm and its application to hotspot events in spatial analysis. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2013, 4, 85-97.	3.3	11
25	Type-2 interval fuzzy rule-based systems in spatial analysis. <i>Information Sciences</i> , 2014, 279, 199-212.	4.0	11
26	Multi-species PSO and fuzzy systems of Takagi's "Sugeno" Kang type. <i>Information Sciences</i> , 2014, 267, 240-251.	4.0	11
27	Extended Fuzzy C-Means hotspot detection method for large and very large event datasets. <i>Information Sciences</i> , 2018, 441, 198-215.	4.0	9
28	Fragile watermarking tamper detection via bilinear fuzzy relation equations. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019, 10, 2041-2061.	3.3	9
29	Multi-level fuzzy transforms image compression. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019, 10, 2745-2756.	3.3	8
30	Improving the emotion-based classification by exploiting the fuzzy entropy in FCM clustering. <i>International Journal of Intelligent Systems</i> , 2021, 36, 6944-6967.	3.3	8
31	Image Matching by Using Fuzzy Transforms. <i>Advances in Fuzzy Systems</i> , 2013, 2013, 1-10.	0.6	7
32	A fuzzy partition-based method to classify social messages assessing their emotional relevance. <i>Information Sciences</i> , 2022, 594, 60-75.	4.0	7
33	Fuzzy transforms prediction in spatial analysis and its application to demographic balance data. <i>Soft Computing</i> , 2017, 21, 3537-3550.	2.1	6
34	GIS-based hierarchical fuzzy multicriteria decision-making method for urban planning. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021, 12, 601-615.	3.3	6
35	A Summary of F-Transform Techniques in Data Analysis. <i>Electronics (Switzerland)</i> , 2021, 10, 1771.	1.8	6
36	A Genetic Algorithm Based on Eigen Fuzzy Sets for Image Reconstruction. <i>Lecture Notes in Computer Science</i> , 2007, , 342-348.	1.0	5

#	ARTICLE	IF	CITATIONS
37	WebGIS based on spatio-temporal hot spots: an application to oto-laryngo-pharyngeal diseases. <i>Soft Computing</i> , 2016, 20, 2135-2147.	2.1	5
38	Time Series Seasonal Analysis Based on Fuzzy Transforms. <i>Symmetry</i> , 2017, 9, 281.	1.1	5
39	Comparison between images via bilinear fuzzy relation equations. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2018, 9, 1517-1525.	3.3	5
40	A New Validity Index Based on Fuzzy Energy and Fuzzy Entropy Measures in Fuzzy Clustering Problems. <i>Entropy</i> , 2020, 22, 1200.	1.1	5
41	New Relation-Theoretic Fixed Point Theorems in Fuzzy Metric Spaces with an Application to Fractional Differential Equations. <i>Axioms</i> , 2022, 11, 117.	0.9	5
42	Spatiotemporal Hotspots Analysis for Exploring the Evolution of Diseases: An Application to Oto-Laryngopharyngeal Diseases. <i>Advances in Fuzzy Systems</i> , 2013, 2013, 1-7.	0.6	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. <i>Geosciences (Switzerland)</i> , 2018, 8, 440.	1.0	4
44	Fuzzy-Based Spatiotemporal Hot Spot Intensity and Propagation—An Application in Crime Analysis. <i>Electronics (Switzerland)</i> , 2022, 11, 370.	1.8	4
45	Detection of Fuzzy Association Rules by Fuzzy Transforms. <i>Advances in Fuzzy Systems</i> , 2012, 2012, 1-12.	0.6	3
46	Coding B-Frames of Color Videos with Fuzzy Transforms. <i>Advances in Fuzzy Systems</i> , 2013, 2013, 1-9.	0.6	3
47	Energy and Entropy Measures of Fuzzy Relations for Data Analysis. <i>Entropy</i> , 2018, 20, 424.	1.1	3
48	Seasonal Time Series Forecasting by F1-Fuzzy Transform. <i>Sensors</i> , 2019, 19, 3611.	2.1	3
49	A Fast Multilevel Fuzzy Transform Image Compression Method. <i>Axioms</i> , 2019, 8, 135.	0.9	3
50	Balancing the user-driven feature selection and their incidence in the clustering structure formation. <i>Applied Soft Computing Journal</i> , 2021, 98, 106854.	4.1	3
51	GIS-based fuzzy sentiment analysis framework to classify urban elements according to the orientations of citizens and tourists expressed in social networks. <i>Evolutionary Intelligence</i> , 2022, 15, 1959-1968.	2.3	3
52	A classification algorithm based on multi-dimensional fuzzy transforms. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , 1.	3.3	3
53	A GIS-Based Fuzzy Multiclassification Framework Applied for Spatiotemporal Analysis of Phenomena in Urban Contexts. <i>Information (Switzerland)</i> , 2022, 13, 248.	1.7	3
54	GIS-Based Model for Constructing Ecological Efficiency Maps of Urban Green Areas: The Case Study of Western Naples, Italy. <i>Sustainability</i> , 2022, 14, 6830.	1.6	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.	0.6	2
57	Extended Gustafson-Kessel granular hotspot detection. Granular Computing, 2020, 5, 85-95.	4.4	2
58	Hierarchical granular hotspots detection. Soft Computing, 2020, 24, 1357-1376.	2.1	2
59	Eigen Fuzzy Sets and their Application to Evaluate the Effectiveness of Actions in Decision Problems. Mathematics, 2020, 8, 1999.	1.1	2
60	Bit Reduced FCM with Block Fuzzy Transforms for Massive Image Segmentation. Information (Switzerland), 2020, 11, 351.	1.7	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.	1.3	2
62	Fuzzy Entropy-Based Spatial Hotspot Reliability. Entropy, 2021, 23, 531.	1.1	2
63	Attribute dependency data analysis for massive datasets by fuzzy transforms. Soft Computing, 2021, 25, 8731-8746.	2.1	2
64	Fuzzy Systems Based on Multispecies PSO Method in Spatial Analysis. Advances in Fuzzy Systems, 2012, 2012, 1-8.	0.6	1
65	Hotspots Detection in Spatial Analysis via the Extended Gustafson-Kessel Algorithm. Advances in Fuzzy Systems, 2013, 2013, 1-7.	0.6	1
66	Fuzzy Methods for Data Analysis. Advances in Fuzzy Systems, 2015, 2015, 1-1.	0.6	1
67	Fuzzy Transforms and Seasonal Time Series. Lecture Notes in Computer Science, 2017, , 54-62.	1.0	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.	0.6	0
71	Fuzzy Reliability in Spatial Databases. Advances in Fuzzy Systems, 2013, 2013, 1-9.	0.6	0
72	Fuzzy Functions, Relations, and Fuzzy Transforms 2013. Advances in Fuzzy Systems, 2013, 2013, 1-1.	0.6	0

#	ARTICLE	IF	CITATIONS
73	Passive image autofocus by using direct fuzzy transform. International Journal of Computational Science and Engineering, 2019, 20, 240.	0.4	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.	0.5	0
83	A GIS-based framework using fuzzy relation equation system solutions in urban planning. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	0
84	Proving Fixed-Point Theorems Employing Fuzzy (Íf,?)-Contractive-Type Mappings. Algorithms, 2022, 15, 141.	1.2	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.	3.3	0