

# Ferdinando Di Martino

## List of Publications by Year in descending order

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Version: 2024-02-01

85  
papers

1,092  
citations

471371

17  
h-index

434063

31  
g-index

101  
all docs

101  
docs citations

101  
times ranked

564  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | 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         |
| 2  | 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. | 2.3 | 3         |
| 3  | A novel quantum inspired genetic algorithm to initialize cluster centers in fuzzy C-means. Expert Systems With Applications, 2022, 191, 116340.  | 4.4 | 21        |
| 4  | 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         |
| 5  | Fuzzy-Based Spatiotemporal Hot Spot Intensity and Propagation An Application in Crime Analysis. Electronics (Switzerland), 2022, 11, 370.  | 1.8 | 4         |
| 6  | New Relation-Theoretic Fixed Point Theorems in Fuzzy Metric Spaces with an Application to Fractional Differential Equations. Axioms, 2022, 11, 117.  | 0.9 | 5         |
| 7  | A fuzzy partition-based method to classify social messages assessing their emotional relevance. Information Sciences, 2022, 594, 60-75.  | 4.0 | 7         |
| 8  | Proving Fixed-Point Theorems Employing Fuzzy (If,?)-Contractive-Type Mappings. Algorithms, 2022, 15, 141.  | 1.2 | 0         |
| 9  | A GIS-Based Fuzzy Multiclassification Framework Applied for Spatiotemporal Analysis of Phenomena in Urban Contexts. Information (Switzerland), 2022, 13, 248.  | 1.7 | 3         |
| 10 | GIS-Based Model for Constructing Ecological Efficiency Maps of Urban Green Areas: The Case Study of Western Naples, Italy. Sustainability, 2022, 14, 6830.   | 1.6 | 3         |
| 11 | GIS-based hierarchical fuzzy multicriteria decision-making method for urban planning. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 601-615.  | 3.3 | 6         |
| 12 | Balancing the user-driven feature selection and their incidence in the clustering structure formation. Applied Soft Computing Journal, 2021, 98, 106854.   | 4.1 | 3         |
| 13 | Fuzzy Entropy-Based Spatial Hotspot Reliability. Entropy, 2021, 23, 531.   | 1.1 | 2         |
| 14 | Attribute dependency data analysis for massive datasets by fuzzy transforms. Soft Computing, 2021, 25, 8731-8746.  | 2.1 | 2         |
| 15 | A Summary of F-Transform Techniques in Data Analysis. Electronics (Switzerland), 2021, 10, 1771.   | 1.8 | 6         |
| 16 | Improving the emotion-based classification by exploiting the fuzzy entropy in FCM clustering. International Journal of Intelligent Systems, 2021, 36, 6944-6967.   | 3.3 | 8         |
| 17 | Extended Gustafson Kessel granular hotspot detection. Granular Computing, 2020, 5, 85-95.  | 4.4 | 2         |
| 18 | PSO image thresholding on images compressed via fuzzy transforms. Information Sciences, 2020, 506, 308-324.  | 4.0 | 35        |

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|----|--|-----|-----------|
| 19 | Hierarchical granular hotspots detection. <i>Soft Computing</i> , 2020, 24, 1357-1376.   | 2.1 | 2         |
| 20 | Eigen Fuzzy Sets and their Application to Evaluate the Effectiveness of Actions in Decision Problems. <i>Mathematics</i> , 2020, 8, 1999.  | 1.1 | 2         |
| 21 | Bit Reduced FCM with Block Fuzzy Transforms for Massive Image Segmentation. <i>Information (Switzerland)</i> , 2020, 11, 351.  | 1.7 | 2         |
| 22 | A Fuzzy Rule-Based GIS Framework to Partition an Urban System Based on Characteristics of Urban Greenery in Relation to the Urban Context. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8781. | 1.3 | 2         |
| 23 | 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         |
| 24 | 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        |
| 25 | Fuzzy Transform for Image Fusion and Edge Detection. , 2020, , 61-79.  |     | 1         |
| 26 | Fuzzy Transform for Analyzing Massive Datasets. , 2020, , 193-211.   |     | 0         |
| 27 | Fuzzy Transform for Image Segmentation. , 2020, , 81-102.  |     | 0         |
| 28 | Fuzzy Transforms Applied in Seasonal Time Series Analysis. , 2020, , 153-171.  |     | 0         |
| 29 | Fuzzy Transform Concepts. , 2020, , 1-14.  |     | 0         |
| 30 | Fuzzy Transforms in Prevision Analysis. , 2020, , 137-152.   |     | 0         |
| 31 | Fuzzy Transform for Image and Video Compression. , 2020, , 27-48.  |     | 0         |
| 32 | Fuzzy Transform Technique for Image Autofocus. , 2020, , 49-60.  |     | 0         |
| 33 | Fuzzy Transforms for Image Watermarking and Image Autofocus. , 2020, , 103-121.  |     | 0         |
| 34 | Multi-level fuzzy transforms image compression. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019, 10, 2745-2756.  | 3.3 | 8         |
| 35 | Seasonal Time Series Forecasting by F1-Fuzzy Transform. <i>Sensors</i> , 2019, 19, 3611.   | 2.1 | 3         |
| 36 | A lightweight clustering-based approach to discover different emotional shades from social message streams. <i>International Journal of Intelligent Systems</i> , 2019, 34, 1505-1523.             | 3.3 | 22        |

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|----|--|-----|-----------|
| 37 | Passive image autofocus by using direct fuzzy transform. International Journal of Computational Science and Engineering, 2019, 20, 240.  | 0.4 | 0         |
| 38 | A Fast Multilevel Fuzzy Transform Image Compression Method. Axioms, 2019, 8, 135.  | 0.9 | 3         |
| 39 | A climate vulnerability and impact assessment model for complex urban systems. Environmental Science and Policy, 2019, 93, 11-26.  | 2.4 | 47        |
| 40 | Complete image fusion method based on fuzzy transforms. Soft Computing, 2019, 23, 2113-2123.   | 2.1 | 12        |
| 41 | Fragile watermarking tamper detection via bilinear fuzzy relation equations. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 2041-2061.                                 | 3.3 | 9         |
| 42 | Extended Fuzzy C-Means hotspot detection method for large and very large event datasets. Information Sciences, 2018, 441, 198-215.   | 4.0 | 9         |
| 43 | Comparison between images via bilinear fuzzy relation equations. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 1517-1525.  | 3.3 | 5         |
| 44 | Spatiotemporal extended fuzzy C-means clustering algorithm for hotspots detection and prediction. Fuzzy Sets and Systems, 2018, 340, 109-126.  | 1.6 | 19        |
| 45 | 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. | 1.0 | 4         |
| 46 | 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         |
| 47 | Energy and Entropy Measures of Fuzzy Relations for Data Analysis. Entropy, 2018, 20, 424.  | 1.1 | 3         |
| 48 | Image reduction method based on the F-transform. Soft Computing, 2017, 21, 1847-1861.  | 2.1 | 23        |
| 49 | Fuzzy Transforms and Seasonal Time Series. Lecture Notes in Computer Science, 2017, , 54-62.   | 1.0 | 1         |
| 50 | Fuzzy transforms prediction in spatial analysis and its application to demographic balance data. Soft Computing, 2017, 21, 3537-3550.  | 2.1 | 6         |
| 51 | Bilinear equations and fuzzy image comparison. , 2017, , .   |     | 1         |
| 52 | Time Series Seasonal Analysis Based on Fuzzy Transforms. Symmetry, 2017, 9, 281.   | 1.1 | 5         |
| 53 | WebGIS based on spatio-temporal hot spots: an application to oto-laryngo-pharyngeal diseases. Soft Computing, 2016, 20, 2135-2147.   | 2.1 | 5         |
| 54 | Fuzzy Methods for Data Analysis. Advances in Fuzzy Systems, 2015, 2015, 1-1.   | 0.6 | 1         |

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|----|---|-----|-----------|
| 55 | Type-2 interval fuzzy rule-based systems in spatial analysis. <i>Information Sciences</i> , 2014, 279, 199-212.   | 4.0 | 11        |
| 56 | Spatio-temporal hotspots and application on a disease analysis case via GIS. <i>Soft Computing</i> , 2014, 18, 2377-2384.   | 2.1 | 15        |
| 57 | A color image reduction based on fuzzy transforms. <i>Information Sciences</i> , 2014, 266, 101-111.  | 4.0 | 30        |
| 58 | Multi-species PSO and fuzzy systems of Takagi-Sugeno-Kang type. <i>Information Sciences</i> , 2014, 267, 240-251.   | 4.0 | 11        |
| 59 | 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        |
| 60 | 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         |
| 61 | Hotspots Detection in Spatial Analysis via the Extended Gustafson-Kessel Algorithm. <i>Advances in Fuzzy Systems</i> , 2013, 2013, 1-7.   | 0.6 | 1         |
| 62 | Image Matching by Using Fuzzy Transforms. <i>Advances in Fuzzy Systems</i> , 2013, 2013, 1-10.  | 0.6 | 7         |
| 63 | Fuzzy Reliability in Spatial Databases. <i>Advances in Fuzzy Systems</i> , 2013, 2013, 1-9.   | 0.6 | 0         |
| 64 | Fuzzy Functions, Relations, and Fuzzy Transforms 2013. <i>Advances in Fuzzy Systems</i> , 2013, 2013, 1-1.  | 0.6 | 0         |
| 65 | Coding B-Frames of Color Videos with Fuzzy Transforms. <i>Advances in Fuzzy Systems</i> , 2013, 2013, 1-9.  | 0.6 | 3         |
| 66 | Fuzzy Systems Based on Multispecies PSO Method in Spatial Analysis. <i>Advances in Fuzzy Systems</i> , 2012, 2012, 1-8.   | 0.6 | 1         |
| 67 | Detection of Fuzzy Association Rules by Fuzzy Transforms. <i>Advances in Fuzzy Systems</i> , 2012, 2012, 1-12.  | 0.6 | 3         |
| 68 | Fuzzy Functions, Relations, and Fuzzy Transforms (2012). <i>Advances in Fuzzy Systems</i> , 2012, 2012, 1-2.  | 0.6 | 0         |
| 69 | Fragile watermarking tamper detection with images compressed by fuzzy transform. <i>Information Sciences</i> , 2012, 195, 62-90.  | 4.0 | 66        |
| 70 | Spatial Analysis and Fuzzy Relation Equations. <i>Advances in Fuzzy Systems</i> , 2011, 2011, 1-14.   | 0.6 | 23        |
| 71 | The extended fuzzy C-means algorithm for hotspots in spatio-temporal GIS. <i>Expert Systems With Applications</i> , 2011, 38, 11829-11836.  | 4.4 | 31        |
| 72 | Fuzzy transforms method in prediction data analysis. <i>Fuzzy Sets and Systems</i> , 2011, 180, 146-163.  | 1.6 | 71        |

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|----|---|-----|-----------|
| 73 | A segmentation method for images compressed by fuzzy transforms. Fuzzy Sets and Systems, 2010, 161, 56-74.  | 1.6 | 56        |
| 74 | Fuzzy transforms method and attribute dependency in data analysis. Information Sciences, 2010, 180, 493-505.  | 4.0 | 63        |
| 75 | Fuzzy transforms for compression and decompression of color videos. Information Sciences, 2010, 180, 3914-3931.   | 4.0 | 41        |
| 76 | An image coding/decoding method based on direct and inverse fuzzy transforms. International Journal of Approximate Reasoning, 2008, 48, 110-131.                              | 1.9 | 158       |
| 77 | Extended fuzzy C-means clustering algorithm for hotspot events in spatial analysis. International Journal of Hybrid Intelligent Systems, 2008, 5, 31-44.                      | 0.9 | 13        |
| 78 | A Genetic Algorithm Based on Eigen Fuzzy Sets for Image Reconstruction. Lecture Notes in Computer Science, 2007, , 342-348.   | 1.0 | 5         |
| 79 | Compression and decompression of images with discrete fuzzy transforms. Information Sciences, 2007, 177, 2349-2362.   | 4.0 | 54        |
| 80 | Digital watermarking in coding/decoding processes with fuzzy relation equations. Soft Computing, 2006, 10, 238-243.   | 2.1 | 17        |
| 81 | 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        |
| 82 | 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        |
| 83 | Eigen Fuzzy Sets and Image Information Retrieval. , 0, , 863-872.   |     | 2         |
| 84 | A classification algorithm based on multi-dimensional fuzzy transforms. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.                                      | 3.3 | 3         |
| 85 | 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         |