

Salvatore Sessa

List of Publications by Year in descending order

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115
papers

1,920
citations

279487

23
h-index

288905

40
g-index

137
all docs

137
docs citations

137
times ranked

988
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 relation equations for coding/decoding processes of images and videos. Information Sciences, 2005, 171, 145-172.	4.0	111
3	A class of uniaxial phenomenological models for simulating hysteretic phenomena in rate-independent mechanical systems and materials. Nonlinear Dynamics, 2018, 93, 1647-1669.	2.7	108
4	A generalized class of uniaxial rate-independent models for simulating asymmetric mechanical hysteresis phenomena. Mechanical Systems and Signal Processing, 2021, 146, 106984.	4.4	78
5	Fuzzy transforms method in prediction data analysis. Fuzzy Sets and Systems, 2011, 180, 146-163.	1.6	71
6	Nonlinear dynamic analysis of hysteretic mechanical systems by combining a novel rate-independent model and an explicit time integration method. Nonlinear Dynamics, 2019, 98, 2879-2901.	2.7	68
7	An accurate and computationally efficient uniaxial phenomenological model for steel and fiber reinforced elastomeric bearings. Composite Structures, 2019, 211, 196-212.	3.1	68
8	Fragile watermarking tamper detection with images compressed by fuzzy transform. Information Sciences, 2012, 195, 62-90.	4.0	66
9	Fuzzy transforms method and attribute dependency in data analysis. Information Sciences, 2010, 180, 493-505.	4.0	63
10	Identification of mode-I cohesive parameters for bonded interfaces based on DCB test. Engineering Fracture Mechanics, 2013, 104, 56-79.	2.0	59
11	A segmentation method for images compressed by fuzzy transforms. Fuzzy Sets and Systems, 2010, 161, 56-74.	1.6	56
12	Compression and decompression of images with discrete fuzzy transforms. Information Sciences, 2007, 177, 2349-2362.	4.0	54
13	Fuzzy transforms for compression and decompression of color videos. Information Sciences, 2010, 180, 3914-3931.	4.0	41
14	An inverse identification strategy for the mechanical parameters of a phenomenological hysteretic constitutive model. Mechanical Systems and Signal Processing, 2020, 139, 106622.	4.4	40
15	Neural networks in astronomy. Neural Networks, 2003, 16, 297-319.	3.3	36
16	PSO image thresholding on images compressed via fuzzy transforms. Information Sciences, 2020, 506, 308-324.	4.0	35
17	When is a fuzzy relation decomposable in two fuzzy sets. Fuzzy Sets and Systems, 1985, 16, 87-90.	1.6	33
18	The extended fuzzy C-means algorithm for hotspots in spatio-temporal GIS. Expert Systems With Applications, 2011, 38, 11829-11836.	4.4	31

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19	A color image reduction based on fuzzy transforms. <i>Information Sciences</i> , 2014, 266, 101-111.	4.0	30
20	A fuzzy-based tool for modelization and analysis of the vulnerability of aquifers: a case study. <i>International Journal of Approximate Reasoning</i> , 2005, 38, 99-111.	1.9	25
21	Analytical Solution of the Cerruti Problem Under Linearly Distributed Horizontal Loads over Polygonal Domains. <i>Journal of Elasticity</i> , 2016, 124, 27-56.	0.9	25
22	Nonlinear Dynamic Analysis of Seismically Base-Isolated Structures by a Novel OpenSees Hysteretic Material Model. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 900.	1.3	25
23	Evaluation of the capacity surfaces of reinforced concrete sections: Eurocode versus a plasticity-based approach. <i>Meccanica</i> , 2018, 53, 1493-1512.	1.2	24
24	Spatial Analysis and Fuzzy Relation Equations. <i>Advances in Fuzzy Systems</i> , 2011, 2011, 1-14.	0.6	23
25	Image reduction method based on the F-transform. <i>Soft Computing</i> , 2017, 21, 1847-1861.	2.1	23
26	A novel fixture for measuring mode III toughness of bonded assemblies. <i>Engineering Fracture Mechanics</i> , 2015, 138, 1-18.	2.0	22
27	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
28	Fuzzy relational structures: The state-of-art. <i>Fuzzy Sets and Systems</i> , 1995, 75, 241-262.	1.6	21
29	Limit state analysis of reinforced shear walls. <i>Engineering Structures</i> , 2014, 61, 127-139.	2.6	21
30	Effective use of seismic response envelopes for reinforced concrete structures. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 2401-2423.	2.5	21
31	The Prime Spectrum of an MV-Algebra. <i>Mathematical Logic Quarterly</i> , 1994, 40, 331-346.	0.2	20
32	Subvarieties of BL-algebras generated by single-component chains. <i>Archive for Mathematical Logic</i> , 2002, 41, 673-685.	0.2	20
33	Efficient decomposition methods of fuzzy relation and their application to image decomposition. <i>Applied Soft Computing Journal</i> , 2005, 5, 399-408.	4.1	20
34	Probabilistic assessment of axial force-biaxial bending capacity domains of reinforced concrete sections. <i>Meccanica</i> , 2019, 54, 1451-1469.	1.2	20
35	On measures of fuzziness of solutions of fuzzy relation equations with generalized connectives. <i>Journal of Mathematical Analysis and Applications</i> , 1985, 106, 443-453.	0.5	19
36	A novel shell element for nonlinear pushover analysis of reinforced concrete shear walls. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 2367-2388.	2.3	19

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37	Spatiotemporal extended fuzzy C-means clustering algorithm for hotspots detection and prediction. <i>Fuzzy Sets and Systems</i> , 2018, 340, 109-126.	1.6	19
38	Complete solutions of three-dimensional problems in transversely isotropic media. <i>Continuum Mechanics and Thermodynamics</i> , 2020, 32, 775-802.	1.4	16
39	Spatio-temporal hotspots and application on a disease analysis case via GIS. <i>Soft Computing</i> , 2014, 18, 2377-2384.	2.1	15
40	A Method for Coding/Decoding Images by Using Fuzzy Relation Equations. <i>Lecture Notes in Computer Science</i> , 2003, , 436-441.	1.0	15
41	FUZZY RELATION CALCULUS IN THE COMPRESSION AND DECOMPRESSION OF FUZZY RELATIONS. <i>International Journal of Image and Graphics</i> , 2002, 02, 617-631.	1.2	13
42	The Variety Generated by Perfect BL-Algebras: an Algebraic Approach in a Fuzzy Logic Setting. <i>Annals of Mathematics and Artificial Intelligence</i> , 2002, 35, 197-214.	0.9	13
43	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
44	Complete image fusion method based on fuzzy transforms. <i>Soft Computing</i> , 2019, 23, 2113-2123.	2.1	12
45	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
46	Type-2 interval fuzzy rule-based systems in spatial analysis. <i>Information Sciences</i> , 2014, 279, 199-212.	4.0	11
47	Multi-species PSO and fuzzy systems of Takagi-Sugeno-Kang type. <i>Information Sciences</i> , 2014, 267, 240-251.	4.0	11
48	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
49	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
50	Multi-level fuzzy transforms image compression. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019, 10, 2745-2756.	3.3	8
51	Fixed Circle and Fixed Disc Results for New Types of \hat{c} -Contractive Mappings in Metric Spaces. <i>Symmetry</i> , 2020, 12, 1825.	1.1	8
52	Image Matching by Using Fuzzy Transforms. <i>Advances in Fuzzy Systems</i> , 2013, 2013, 1-10.	0.6	7
53	CAESAR II Tool: Complementary Analyses for Emergency Planning Based on Seismic Risks Impact Evaluations. <i>Sustainability</i> , 2021, 13, 9838.	1.6	7
54	Fuzzy transforms prediction in spatial analysis and its application to demographic balance data. <i>Soft Computing</i> , 2017, 21, 3537-3550.	2.1	6

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55	A Summary of F-Transform Techniques in Data Analysis. Electronics (Switzerland), 2021, 10, 1771.	1.8	6
56	A Genetic Algorithm Based on Eigen Fuzzy Sets for Image Reconstruction. Lecture Notes in Computer Science, 2007, , 342-348.	1.0	5
57	WebGIS based on spatio-temporal hot spots: an application to oto-laryngo-pharyngeal diseases. Soft Computing, 2016, 20, 2135-2147.	2.1	5
58	Time Series Seasonal Analysis Based on Fuzzy Transforms. Symmetry, 2017, 9, 281.	1.1	5
59	Comparison between images via bilinear fuzzy relation equations. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 1517-1525.	3.3	5
60	A New Validity Index Based on Fuzzy Energy and Fuzzy Entropy Measures in Fuzzy Clustering Problems. Entropy, 2020, 22, 1200.	1.1	5
61	New Study of the Existence and Dimension of the Set of Solutions for Nonlocal Impulsive Differential Inclusions with a Sectorial Operator. Symmetry, 2021, 13, 491.	1.1	5
62	Thermodynamic compatibility conditions of a new class of hysteretic materials. Continuum Mechanics and Thermodynamics, 2022, 34, 61-79.	1.4	5
63	First Order Fuzzy Transform for Images Compression. Journal of Signal and Information Processing, 2017, 08, 178-194.	0.8	5
64	New Relation-Theoretic Fixed Point Theorems in Fuzzy Metric Spaces with an Application to Fractional Differential Equations. Axioms, 2022, 11, 117.	0.9	5
65	Exact Integration Of Uniaxial Elasto-Plastic Laws For Nonlinear Structural Analysis. AIP Conference Proceedings, 2008, , .	0.3	4
66	Common Fixed Point Results for Almost α -g-Geraghty Type Contraction Mappings in b_2 -Metric Spaces with an Application to Integral Equations. Axioms, 2021, 10, 101.	0.9	4
67	Detection of Fuzzy Association Rules by Fuzzy Transforms. Advances in Fuzzy Systems, 2012, 2012, 1-12.	0.6	3
68	Coding B-Frames of Color Videos with Fuzzy Transforms. Advances in Fuzzy Systems, 2013, 2013, 1-9.	0.6	3
69	Energy and Entropy Measures of Fuzzy Relations for Data Analysis. Entropy, 2018, 20, 424.	1.1	3
70	Seasonal Time Series Forecasting by F1-Fuzzy Transform. Sensors, 2019, 19, 3611.	2.1	3
71	A Fast Multilevel Fuzzy Transform Image Compression Method. Axioms, 2019, 8, 135.	0.9	3
72	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

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73	A classification algorithm based on multi-dimensional fuzzy transforms. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	3
74	Fixed Point Results on Partial Modular Metric Space. Axioms, 2022, 11, 62.	0.9	3
75	Artificial Intelligence Tools for Data Mining in Large Astronomical Databases. , 0, , 202-213.		2
76	Eigen Fuzzy Sets and Image Information Retrieval. , 0, , 863-872.		2
77	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
78	Extended Gustafson-Kessel granular hotspot detection. Granular Computing, 2020, 5, 85-95.	4.4	2
79	Hierarchical granular hotspots detection. Soft Computing, 2020, 24, 1357-1376.	2.1	2
80	Eigen Fuzzy Sets and their Application to Evaluate the Effectiveness of Actions in Decision Problems. Mathematics, 2020, 8, 1999.	1.1	2
81	A Commingle between the Contractive Conditions of Type Jungck and a General Weak Commutativity Concept. Symmetry, 2020, 12, 1229.	1.1	2
82	Fixed Point Results for a Selected Class of Multi-Valued Mappings under $(\hat{I}, \hat{\alpha}, \triangleright)$ -Contractions with an Application. Mathematics, 2020, 8, 695.	1.1	2
83	Fuzzy relation-theoretic contraction principle. Journal of Intelligent and Fuzzy Systems, 2021, 40, 4491-4501.	0.8	2
84	Fuzzy Entropy-Based Spatial Hotspot Reliability. Entropy, 2021, 23, 531.	1.1	2
85	Attribute dependency data analysis for massive datasets by fuzzy transforms. Soft Computing, 2021, 25, 8731-8746.	2.1	2
86	\hat{I}_s^* -Weak Contractions and Discontinuity at the Fixed Point with Applications to Matrix and Integral Equations. Axioms, 2021, 10, 209.	0.9	2
87	A Relation-Theoretic Formulation of Browder's Fixed Point Theorem. Axioms, 2021, 10, 285.	0.9	2
88	Fuzzy Systems Based on Multispecies PSO Method in Spatial Analysis. Advances in Fuzzy Systems, 2012, 2012, 1-8.	0.6	1
89	Hotspots Detection in Spatial Analysis via the Extended Gustafson-Kessel Algorithm. Advances in Fuzzy Systems, 2013, 2013, 1-7.	0.6	1
90	Fuzzy Transforms and Seasonal Time Series. Lecture Notes in Computer Science, 2017, , 54-62.	1.0	1

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91	Bilinear equations and fuzzy image comparison. , 2017, , .		1
92	Editorial to image processing with soft computing techniques. Soft Computing, 2019, 23, 1777-1778.	2.1	1
93	A Relation-Theoretic Matkowski-Type Theorem in Symmetric Spaces. Axioms, 2021, 10, 50.	0.9	1
94	Fuzzy Transform for Image Fusion and Edge Detection. , 2020, , 61-79.		1
95	Digital Watermarking Strings with Images Compressed by Fuzzy Relation Equations. , 2013, , 173-186.		1
96	Coincidence Points for Mappings in Metric Spaces Satisfying Weak Commuting Conditions. Symmetry, 2022, 14, 504.	1.1	1
97	Fuzzy Functions, Relations, and Fuzzy Transforms (2012). Advances in Fuzzy Systems, 2012, 2012, 1-2.	0.6	0
98	Fuzzy Reliability in Spatial Databases. Advances in Fuzzy Systems, 2013, 2013, 1-9.	0.6	0
99	Fuzzy Functions, Relations, and Fuzzy Transforms 2013. Advances in Fuzzy Systems, 2013, 2013, 1-1.	0.6	0
100	Passive image autofocus by using direct fuzzy transform. International Journal of Computational Science and Engineering, 2019, 20, 240.	0.4	0
101	New Fixed Point Results via (\hat{I}, \hat{J}) R-Weak Contractions with an Application. Symmetry, 2020, 12, 887.	1.1	0
102	Minimal Ideals and the Socle in MV-algebras. , 2001, , 19-31.		0
103	A Fuzzy Hybrid Method for Image Decomposition Problem. Lecture Notes in Computer Science, 2008, , 353-358.	1.0	0
104	Fuzzy Transform for Analyzing Massive Datasets. , 2020, , 193-211.		0
105	Fuzzy Transform for Image Segmentation. , 2020, , 81-102.		0
106	Fuzzy Transforms Applied in Seasonal Time Series Analysis. , 2020, , 153-171.		0
107	Fuzzy Transform Concepts. , 2020, , 1-14.		0
108	Fuzzy Transforms in Prevision Analysis. , 2020, , 137-152.		0

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109	Fuzzy Transform for Image and Video Compression. , 2020, , 27-48.		0
110	Fuzzy Transform Technique for Image Autofocus. , 2020, , 49-60.		0
111	Fuzzy Transforms for Image Watermarking and Image Autofocus. , 2020, , 103-121.		0
112	Influence of Non-structural Components on Equivalent Linearization of Buildings. Advanced Structured Materials, 2021, , 239-251.	0.3	0
113	Proving Fixed-Point Theorems Employing Fuzzy ($\tilde{f}, ?$)-Contractive-Type Mappings. Algorithms, 2022, 15, 141.	1.2	0
114	Order-Theoretic Common Fixed Point Results in Rmb-Metric Spaces. Symmetry, 2022, 14, 1376.	1.1	0
115	\tilde{f} -Contractions under W-Distances Employing Symmetric Locally T-Transitive Binary Relation. Symmetry, 2022, 14, 1456.	1.1	0