

# Salvatore Sessa

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Thermodynamic compatibility conditions of a new class of hysteretic materials. <i>Continuum Mechanics and Thermodynamics</i> , 2022, 34, 61-79.	1.4	5
3	Fixed Point Results on Partial Modular Metric Space. <i>Axioms</i> , 2022, 11, 62.	0.9	3
4	Coincidence Points for Mappings in Metric Spaces Satisfying Weak Commuting Conditions. <i>Symmetry</i> , 2022, 14, 504.	1.1	1
5	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
6	Proving Fixed-Point Theorems Employing Fuzzy $(\tilde{I}f, ?)$ -Contractive-Type Mappings. <i>Algorithms</i> , 2022, 15, 141.	1.2	0
7	Order-Theoretic Common Fixed Point Results in Rmb-Metric Spaces. <i>Symmetry</i> , 2022, 14, 1376.	1.1	0
8	$\tilde{I}\tilde{I}$ -Contractions under W-Distances Employing Symmetric Locally T-Transitive Binary Relation. <i>Symmetry</i> , 2022, 14, 1456.	1.1	0
9	A generalized class of uniaxial rate-independent models for simulating asymmetric mechanical hysteresis phenomena. <i>Mechanical Systems and Signal Processing</i> , 2021, 146, 106984.	4.4	78
10	Fuzzy relation-theoretic contraction principle. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021, 40, 4491-4501.	0.8	2
11	New Study of the Existence and Dimension of the Set of Solutions for Nonlocal Impulsive Differential Inclusions with a Sectorial Operator. <i>Symmetry</i> , 2021, 13, 491.	1.1	5
12	A Relation-Theoretic Matkowski-Type Theorem in Symmetric Spaces. <i>Axioms</i> , 2021, 10, 50.	0.9	1
13	Fuzzy Entropy-Based Spatial Hotspot Reliability. <i>Entropy</i> , 2021, 23, 531.	1.1	2
14	Attribute dependency data analysis for massive datasets by fuzzy transforms. <i>Soft Computing</i> , 2021, 25, 8731-8746.	2.1	2
15	Common Fixed Point Results for Almost $\hat{\alpha}_g$ -Geraghty Type Contraction Mappings in $b_2$ -Metric Spaces with an Application to Integral Equations. <i>Axioms</i> , 2021, 10, 101.	0.9	4
16	A Summary of F-Transform Techniques in Data Analysis. <i>Electronics (Switzerland)</i> , 2021, 10, 1771.	1.8	6
17	$\hat{I}_*$ -Weak Contractions and Discontinuity at the Fixed Point with Applications to Matrix and Integral Equations. <i>Axioms</i> , 2021, 10, 209.	0.9	2
18	CAESAR II Tool: Complementary Analyses for Emergency Planning Based on Seismic Risks Impact Evaluations. <i>Sustainability</i> , 2021, 13, 9838.	1.6	7

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19	Nonlinear Dynamic Analysis of Seismically Base-Isolated Structures by a Novel OpenSees Hysteretic Material Model. Applied Sciences (Switzerland), 2021, 11, 900.	1.3	25
20	A Relation-Theoretic Formulation of Browder's Fixed Point Theorem. Axioms, 2021, 10, 285.	0.9	2
21	Influence of Non-structural Components on Equivalent Linearization of Buildings. Advanced Structured Materials, 2021, , 239-251.	0.3	0
22	Complete solutions of three-dimensional problems in transversely isotropic media. Continuum Mechanics and Thermodynamics, 2020, 32, 775-802.	1.4	16
23	Extended Gustafson's Kessel granular hotspot detection. Granular Computing, 2020, 5, 85-95.	4.4	2
24	PSO image thresholding on images compressed via fuzzy transforms. Information Sciences, 2020, 506, 308-324.	4.0	35
25	Hierarchical granular hotspots detection. Soft Computing, 2020, 24, 1357-1376.	2.1	2
26	Fixed Circle and Fixed Disc Results for New Types of $\hat{\tau}$ -Contractive Mappings in Metric Spaces. Symmetry, 2020, 12, 1825.	1.1	8
27	Eigen Fuzzy Sets and their Application to Evaluate the Effectiveness of Actions in Decision Problems. Mathematics, 2020, 8, 1999.	1.1	2
28	A Commingle between the Contractive Conditions of Type Jungck and a General Weak Commutativity Concept. Symmetry, 2020, 12, 1229.	1.1	2
29	A New Validity Index Based on Fuzzy Energy and Fuzzy Entropy Measures in Fuzzy Clustering Problems. Entropy, 2020, 22, 1200.	1.1	5
30	Fixed Point Results for a Selected Class of Multi-Valued Mappings under $(\hat{\tau}, \hat{\alpha}, \hat{\nu})$ -Contractions with an Application. Mathematics, 2020, 8, 695.	1.1	2
31	New Fixed Point Results via $(\hat{\tau}, \hat{\nu})$ R-Weak Contractions with an Application. Symmetry, 2020, 12, 887.	1.1	0
32	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
33	Fuzzy Transform for Image Fusion and Edge Detection. , 2020, , 61-79.		1
34	Fuzzy Transform for Analyzing Massive Datasets. , 2020, , 193-211.		0
35	Fuzzy Transform for Image Segmentation. , 2020, , 81-102.		0
36	Fuzzy Transforms Applied in Seasonal Time Series Analysis. , 2020, , 153-171.		0

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37	Fuzzy Transform Concepts. , 2020, , 1-14.		0
38	Fuzzy Transforms in Prevision Analysis. , 2020, , 137-152.		0
39	Fuzzy Transform for Image and Video Compression. , 2020, , 27-48.		0
40	Fuzzy Transform Technique for Image Autofocus. , 2020, , 49-60.		0
41	Fuzzy Transforms for Image Watermarking and Image Autofocus. , 2020, , 103-121.		0
42	Multi-level fuzzy transforms image compression. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 2745-2756.	3.3	8
43	Seasonal Time Series Forecasting by F1-Fuzzy Transform. Sensors, 2019, 19, 3611.	2.1	3
44	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
45	Probabilistic assessment of axial forceâ€œbiaxial bending capacity domains of reinforced concrete sections. Meccanica, 2019, 54, 1451-1469.	1.2	20
46	A lightweight clusteringâ€œbased approach to discover different emotional shades from social message streams. International Journal of Intelligent Systems, 2019, 34, 1505-1523.	3.3	22
47	Editorial to image processing with soft computing techniques. Soft Computing, 2019, 23, 1777-1778.	2.1	1
48	Passive image autofocus by using direct fuzzy transform. International Journal of Computational Science and Engineering, 2019, 20, 240.	0.4	0
49	A Fast Multilevel Fuzzy Transform Image Compression Method. Axioms, 2019, 8, 135.	0.9	3
50	An accurate and computationally efficient uniaxial phenomenological model for steel and fiber reinforced elastomeric bearings. Composite Structures, 2019, 211, 196-212.	3.1	68
51	Complete image fusion method based on fuzzy transforms. Soft Computing, 2019, 23, 2113-2123.	2.1	12
52	Fragile watermarking tamper detection via bilinear fuzzy relation equations. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 2041-2061.	3.3	9
53	Extended Fuzzy C-Means hotspot detection method for large and very large event datasets. Information Sciences, 2018, 441, 198-215.	4.0	9
54	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

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55	Comparison between images via bilinear fuzzy relation equations. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2018, 9, 1517-1525.	3.3	5
56	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
57	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
58	A Method Based on Extended Fuzzy Transforms to Approximate Fuzzy Numbers in Mamdani Fuzzy Rule-Based System. <i>Advances in Fuzzy Systems</i> , 2018, 2018, 1-16.	0.6	2
59	Energy and Entropy Measures of Fuzzy Relations for Data Analysis. <i>Entropy</i> , 2018, 20, 424.	1.1	3
60	Image reduction method based on the F-transform. <i>Soft Computing</i> , 2017, 21, 1847-1861.	2.1	23
61	Fuzzy Transforms and Seasonal Time Series. <i>Lecture Notes in Computer Science</i> , 2017, , 54-62.	1.0	1
62	Fuzzy transforms prediction in spatial analysis and its application to demographic balance data. <i>Soft Computing</i> , 2017, 21, 3537-3550.	2.1	6
63	Bilinear equations and fuzzy image comparison. , 2017, , .		1
64	Time Series Seasonal Analysis Based on Fuzzy Transforms. <i>Symmetry</i> , 2017, 9, 281.	1.1	5
65	First Order Fuzzy Transform for Images Compression. <i>Journal of Signal and Information Processing</i> , 2017, 08, 178-194.	0.8	5
66	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
67	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
68	Effective use of seismic response envelopes for reinforced concrete structures. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 2401-2423.	2.5	21
69	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
70	A novel fixture for measuring mode III toughness of bonded assemblies. <i>Engineering Fracture Mechanics</i> , 2015, 138, 1-18.	2.0	22
71	Type-2 interval fuzzy rule-based systems in spatial analysis. <i>Information Sciences</i> , 2014, 279, 199-212.	4.0	11
72	Spatio-temporal hotspots and application on a disease analysis case via GIS. <i>Soft Computing</i> , 2014, 18, 2377-2384.	2.1	15

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73	A color image reduction based on fuzzy transforms. Information Sciences, 2014, 266, 101-111.	4.0	30
74	Limit state analysis of reinforced shear walls. Engineering Structures, 2014, 61, 127-139.	2.6	21
75	Multi-species PSO and fuzzy systems of Takagi-Sugeno-Kang type. Information Sciences, 2014, 267, 240-251.	4.0	11
76	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.	3.3	11
77	Identification of mode-I cohesive parameters for bonded interfaces based on DCB test. Engineering Fracture Mechanics, 2013, 104, 56-79.	2.0	59
78	Hotspots Detection in Spatial Analysis via the Extended Gustafson-Kessel Algorithm. Advances in Fuzzy Systems, 2013, 2013, 1-7.	0.6	1
79	Image Matching by Using Fuzzy Transforms. Advances in Fuzzy Systems, 2013, 2013, 1-10.	0.6	7
80	Fuzzy Reliability in Spatial Databases. Advances in Fuzzy Systems, 2013, 2013, 1-9.	0.6	0
81	Fuzzy Functions, Relations, and Fuzzy Transforms 2013. Advances in Fuzzy Systems, 2013, 2013, 1-1.	0.6	0
82	Coding B-Frames of Color Videos with Fuzzy Transforms. Advances in Fuzzy Systems, 2013, 2013, 1-9.	0.6	3
83	Digital Watermarking Strings with Images Compressed by Fuzzy Relation Equations. , 2013, , 173-186.		1
84	Fuzzy Systems Based on Multispecies PSO Method in Spatial Analysis. Advances in Fuzzy Systems, 2012, 2012, 1-8.	0.6	1
85	Detection of Fuzzy Association Rules by Fuzzy Transforms. Advances in Fuzzy Systems, 2012, 2012, 1-12.	0.6	3
86	Fuzzy Functions, Relations, and Fuzzy Transforms (2012). Advances in Fuzzy Systems, 2012, 2012, 1-2.	0.6	0
87	Fragile watermarking tamper detection with images compressed by fuzzy transform. Information Sciences, 2012, 195, 62-90.	4.0	66
88	Spatial Analysis and Fuzzy Relation Equations. Advances in Fuzzy Systems, 2011, 2011, 1-14.	0.6	23
89	The extended fuzzy C-means algorithm for hotspots in spatio-temporal GIS. Expert Systems With Applications, 2011, 38, 11829-11836.	4.4	31
90	Fuzzy transforms method in prediction data analysis. Fuzzy Sets and Systems, 2011, 180, 146-163.	1.6	71

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91	A segmentation method for images compressed by fuzzy transforms. Fuzzy Sets and Systems, 2010, 161, 56-74.	1.6	56
92	Fuzzy transforms method and attribute dependency in data analysis. Information Sciences, 2010, 180, 493-505.	4.0	63
93	Fuzzy transforms for compression and decompression of color videos. Information Sciences, 2010, 180, 3914-3931.	4.0	41
94	An image coding/decoding method based on direct and inverse fuzzy transforms. International Journal of Approximate Reasoning, 2008, 48, 110-131.	1.9	158
95	Exact Integration Of Uniaxial Elasto-Plastic Laws For Nonlinear Structural Analysis. AIP Conference Proceedings, 2008, , .	0.3	4
96	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
97	A Fuzzy Hybrid Method for Image Decomposition Problem. Lecture Notes in Computer Science, 2008, , 353-358.	1.0	0
98	A Genetic Algorithm Based on Eigen Fuzzy Sets for Image Reconstruction. Lecture Notes in Computer Science, 2007, , 342-348.	1.0	5
99	Compression and decompression of images with discrete fuzzy transforms. Information Sciences, 2007, 177, 2349-2362.	4.0	54
100	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
101	Fuzzy relation equations for coding/decoding processes of images and videos. Information Sciences, 2005, 171, 145-172.	4.0	111
102	Efficient decomposition methods of fuzzy relation and their application to image decomposition. Applied Soft Computing Journal, 2005, 5, 399-408.	4.1	20
103	Neural neZtworks in astronomy. Neural Networks, 2003, 16, 297-319.	3.3	36
104	A Method for Coding/Decoding Images by Using Fuzzy Relation Equations. Lecture Notes in Computer Science, 2003, , 436-441.	1.0	15
105	FUZZY RELATION CALCULUS IN THE COMPRESSION AND DECOMPRESSION OF FUZZY RELATIONS. International Journal of Image and Graphics, 2002, 02, 617-631.	1.2	13
106	Subvarieties of BL-algebras generated by single-component chains. Archive for Mathematical Logic, 2002, 41, 673-685.	0.2	20
107	The Variety Generated by Perfect BL-Algebras: an Algebraic Approach in a Fuzzy Logic Setting. Annals of Mathematics and Artificial Intelligence, 2002, 35, 197-214.	0.9	13
108	Minimal Ideals and the Socle in MV-algebras. , 2001, , 19-31.		0

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109	Fuzzy relational structures: The state-of-art. Fuzzy Sets and Systems, 1995, 75, 241-262.	1.6	21
110	The Prime Spectrum of an MV-Algebra. Mathematical Logic Quarterly, 1994, 40, 331-346.	0.2	20
111	When is a fuzzy relation decomposable in two fuzzy sets. Fuzzy Sets and Systems, 1985, 16, 87-90.	1.6	33
112	On measures of fuzziness of solutions of fuzzy relation equations with generalized connectives. Journal of Mathematical Analysis and Applications, 1985, 106, 443-453.	0.5	19
113	Artificial Intelligence Tools for Data Mining in Large Astronomical Databases. , 0, , 202-213.		2
114	Eigen Fuzzy Sets and Image Information Retrieval. , 0, , 863-872.		2
115	A classification algorithm based on multi-dimensional fuzzy transforms. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	3