Sabina Sonia Tangaro

List of Publications by Year
in descending order

112	2,995	201575	197736
papers	citations	27	49
		h-index	g-index

118	118	118	3747
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Satellite data and machine learning reveal a significant correlation between NO2 and COVID-19 mortality. Environmental Research, 2022, 204, 111970.	3.7	6
2	Sustainable development goals: conceptualization, communication and achievement synergies in a complex network framework. Applied Network Science, 2022, 7, 14.	0.8	12
3	Validity of Machine Learning in Predicting Giant Cell Arteritis Flare After Glucocorticoids Tapering. Frontiers in Immunology, 2022, 13, 860877.	2.2	9
4	Territorial bias in university rankings: a complex network approach. Scientific Reports, 2022, 12, 4995.	1.6	15
5	A Machine Learning Approach to Parkinson's Disease Blood Transcriptomics. Genes, 2022, 13, 727.	1.0	10
6	Multi-site harmonization of MRI data uncovers machine-learning discrimination capability in barely separable populations: An example from the ABIDE dataset. NeuroImage: Clinical, 2022, 35, 103082.	1.4	10
7	Predicting brain age with complex networks: From adolescence to adulthood. NeuroImage, 2021, 225, 117458.	2.1	39
8	A primer on machine learning techniques for genomic applications. Computational and Structural Biotechnology Journal, 2021, 19, 4345-4359.	1.9	8
9	A Clinical Decision Support System for Predicting Invasive Breast Cancer Recurrence: Preliminary Results. Frontiers in Oncology, 2021, 11, 576007.	1.3	21
10	Artificial intelligence applications in medical imaging: A review of the medical physics research in Italy. Physica Medica, 2021, 83, 221-241.	0.4	44
11	Complex Network Modelling of Origin–Destination Commuting Flows for the COVID-19 Epidemic Spread Analysis in Italian Lombardy Region. Applied Sciences (Switzerland), 2021, 11, 4381.	1.3	7
12	Explainable Deep Learning for Personalized Age Prediction With Brain Morphology. Frontiers in Neuroscience, 2021, 15, 674055.	1.4	38
13	Exploring the Oral Microbiome in Rheumatic Diseases, State of Art and Future Prospective in Personalized Medicine with an AI Approach. Journal of Personalized Medicine, 2021, 11, 625.	1.1	20
14	Random Forests Highlight the Combined Effect of Environmental Heavy Metals Exposure and Genetic Damages for Cardiovascular Diseases. Applied Sciences (Switzerland), 2021, 11, 8405.	1.3	3
15	Editorial: Explainable Artificial Intelligence (XAI) in Systems Neuroscience. Frontiers in Systems Neuroscience, 2021, 15, 766980.	1.2	9
16	Association between Structural Connectivity and Generalized Cognitive Spectrum in Alzheimer's Disease. Brain Sciences, 2020, 10, 879.	1.1	11
17	PSI Clustering for the Assessment of Underground Infrastructure Deterioration. Remote Sensing, 2020, 12, 3681.	1.8	5
18	An equity-oriented rethink of global rankings with complex networks mapping development. Scientific Reports, 2020, 10, 18046.	1.6	13

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19	Potential energy of complex networks: a quantum mechanical perspective. Scientific Reports, 2020, 10, 18387.	1.6	9
20	Radiomic Analysis in Contrast-Enhanced Spectral Mammography for Predicting Breast Cancer Histological Outcome. Diagnostics, 2020, 10, 708.	1.3	57
21	Machine Learning for Cloud Detection of Globally Distributed Sentinel-2 Images. Remote Sensing, 2020, 12, 2355.	1.8	18
22	Multi-Time-Scale Features for Accurate Respiratory Sound Classification. Applied Sciences (Switzerland), 2020, 10, 8606.	1.3	27
23	Breath Analysis for Early Detection of Malignant Pleural Mesothelioma: Volatile Organic Compounds (VOCs) Determination and Possible Biochemical Pathways. Cancers, 2020, 12, 1262.	1.7	24
24	Elite VABB 13G: A New Ultrasound-Guided Wireless Biopsy System for Breast Lesions. Technical Characteristics and Comparison with Respect to Traditional Core-Biopsy 14â€"16G Systems. Diagnostics, 2020, 10, 291.	1.3	7
25	Individual Topological Analysis of Synchronization-Based Brain Connectivity. Applied Sciences (Switzerland), 2020, 10, 3275.	1.3	1
26	A machine learning approach on multiscale texture analysis for breast microcalcification diagnosis. BMC Bioinformatics, 2020, 21, 91.	1.2	34
27	Machine Learning and DWI Brain Communicability Networks for Alzheimerâ€™s Disease Detection. Applied Sciences (Switzerland), 2020, 10, 934.	1.3	20
28	Extensive Evaluation of Morphological Statistical Harmonization for Brain Age Prediction. Brain Sciences, 2020, 10, 364.	1.1	12
29	Brain Age Prediction With Morphological Features Using Deep Neural Networks: Results From Predictive Analytic Competition 2019. Frontiers in Psychiatry, 2020, 11, 619629.	1.3	11
30	Identifying potential gene biomarkers for Parkinsonâ€™s disease through an information entropy based approach. Physical Biology, 2020, 18, 016003.	0.8	16
31	Mapping digital governance projects through complex networks. , 2020, , .		0
32	Communicability disruption in Alzheimerâ€™s disease connectivity networks. Journal of Complex Networks, 2019, 7, 83-100.	1.1	26
33	Microcalcification detection in full-field digital mammograms: A fully automated computer-aided system. Physica Medica, 2019, 64, 1-9.	0.4	38
34	Assessment of network module identification across complex diseases. Nature Methods, 2019, 16, 843-852.	9.0	213
35	Association between miRNAs expression and cognitive performances of Pediatric Multiple Sclerosis patients: A pilot study. Brain and Behavior, 2019, 9, e01199.	1.0	26
36	Communicability Characterization of Structural DWI Subcortical Networks in Alzheimerâ€™s Disease. Entropy, 2019, 21, 475.	1.1	14

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37	Fully Automated Support System for Diagnosis of Breast Cancer in Contrast-Enhanced Spectral Mammography Images. Journal of Clinical Medicine, 2019, 8, 891.	1.0	40
38	Deep Learning and Multiplex Networks for Accurate Modeling of Brain Age. Frontiers in Aging Neuroscience, 2019, 11, 115.	1.7	41
39	Modelling cognitive loads in schizophrenia by means of new functional dynamic indexes. NeuroImage, 2019, 195, 150-164.	2.1	24
40	Thalamic connectivity measured with fMRI is associated with a polygenic index predicting thalamo-prefrontal gene co-expression. Brain Structure and Function, 2019, 224, 1331-1344.	1.2	18
41	Radiomics Analysis on Contrast-Enhanced Spectral Mammography Images for Breast Cancer Diagnosis: A Pilot Study. Entropy, 2019, 21, 1110.	1.1	38
42	Shannon entropy approach reveals relevant genes in Alzheimer's disease. PLoS ONE, 2019, 14, e0226190.	1.1	19
43	Ensemble Discrete Wavelet Transform and Gray-Level Co-Occurrence Matrix for Microcalcification Cluster Classification in Digital Mammography. Applied Sciences (Switzerland), 2019, 9, 5388.	1.3	34
44	The PERSON project: a serious brain-computer interface game for treatment in cognitive impairment. Health and Technology, 2019, 9, 123-133.	2.1	12
45	Multidimensional Neuroimaging Processing in ReCaS Datacenter. Lecture Notes in Computer Science, 2019, , 468-477.	1.0	2
46	Age Related Topological Analysis of Synchronization-Based Functional Connectivity. Studies in Computational Intelligence, 2019, , 652-662.	0.7	0
47	Cross Recurrence Quantitative Analysis of Functional Magnetic Resonance Imaging. Lecture Notes in Computational Vision and Biomechanics, 2019, , 86-92.	0.5	0
48	Applications of PDEs inpainting to magnetic particle imaging and corneal topography. Opuscula Mathematica, 2019, 39, 453-482.	0.3	3
49	Deep learning reveals Alzheimer's disease onset in MCI subjects: Results from an international challenge. Journal of Neuroscience Methods, 2018, 302, 3-9.	1.3	104
50	Trial latencies estimation of event-related potentials in EEG by means of genetic algorithms. Journal of Neural Engineering, 2018, 15, 026016.	1.8	10
51	Salient networks: a novel application to study Alzheimer disease. BioMedical Engineering OnLine, 2018, 17, 162.	1.3	1
52	Multiplex Networks for Early Diagnosis of Alzheimer's Disease. Frontiers in Aging Neuroscience, 2018, 10, 365.	1.7	43
53	Complex networks reveal early MRI markers of Parkinson's disease. Medical Image Analysis, 2018, 48, 12-24.	7.0	112
54	A novel approach to brain connectivity reveals early structural changes in Alzheimer's disease. Physiological Measurement, 2018, 39, 074005.	1.2	22

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55	A Gradient-Based Approach for Breast DCE-MRI Analysis. BioMed Research International, 2018, 2018, 1-10.	0.9	24
56	Transcriptomic context of <i>DRD1</i> is associated with prefrontal activity and behavior during working memory. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5582-5587.	3.3	18
57	Alzheimerâ€™s disease diagnosis based on the Hippocampal Unified Multi-Atlas Network (HUMAN) algorithm. BioMedical Engineering OnLine, 2018, 17, 6.	1.3	28
58	A complex network approach reveals a pivotal substructure of genes linked to schizophrenia. PLoS ONE, 2018, 13, e0190110.	1.1	22
59	DTI measurements for Alzheimerâ€™s classification. Physics in Medicine and Biology, 2017, 62, 2361-2375.	1.6	57
60	Salient Networks: A Novel Application to Study Brain Connectivity. Lecture Notes in Computer Science, 2017, , 444-453.	1.0	1
61	A Multiplex Network Model to Characterize Brain Atrophy in Structural MRI. Springer Proceedings in Physics, 2017, , 189-198.	0.1	8
62	Topological Complex Networks Properties for Gene Community Detection Strategy: DRD2 Case Study. Springer Proceedings in Physics, 2017, , 199-208.	0.1	3
63	A fuzzy-based system reveals Alzheimerâ€™s Disease onset in subjects with Mild Cognitive Impairment. Physica Medica, 2017, 38, 36-44.	0.4	18
64	A Novel Synchronization-Based Approach for Functional Connectivity Analysis. Complexity, 2017, 2017, 1-12.	0.9	15
65	Topological Measurements of DWI Tractography for Alzheimerâ€™s Disease Detection. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-10.	0.7	13
66	Multivariate regression analysis of structural MRI connectivity matrices in Alzheimerâ€™s disease. PLoS ONE, 2017, 12, e0187281.	1.1	15
67	Hough transform for clustered microcalcifications detection in full-field digital mammograms. , 2017, , .		14
68	Machine learning for the assessment of Alzheimer's disease through DTI. , 2017, , .		2
69	A multi-layer MRI description of Parkinson's disease. , 2017, , .		0
70	Association between MRI structural features and cognitive measures in pediatric multiple sclerosis. , 2017, , .		0
71	Computer Aided Detection System for Prediction of the Malaise during Hemodialysis. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-10.	0.7	4
72	Crowdsourced estimation of cognitive decline and resilience in Alzheimer's disease. Alzheimer's and Dementia, 2016, 12, 645-653.	0.4	72

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73	MRI analysis for hippocampus segmentation on a distributed infrastructure. , 2016, , .		0
74	Hybrid x-space: a new approach for MPI reconstruction. Physics in Medicine and Biology, 2016, 61, 4061-4077.	1.6	10
75	Automated hippocampal segmentation in 3D MRI using random undersampling with boosting algorithm. Pattern Analysis and Applications, 2016, 19, 579-591.	3.1	24
76	Integrating longitudinal information in hippocampal volume measurements for the early detection of Alzheimer's disease. NeuroImage, 2016, 125, 834-847.	2.1	76
77	Mild Traumatic Brain Injury Outcome Prediction Based on Both Graph and K-nn Methods. Lecture Notes in Computer Science, 2016, , 271-281.	1.0	1
78	Multiple RF classifier for the hippocampus segmentation: Method and validation on EADC-ADNI Harmonized Hippocampal Protocol. Physica Medica, 2015, 31, 1085-1091.	0.4	15
79	Hippocampal unified multi-atlas network (HUMAN): protocol and scale validation of a novel segmentation tool. Physics in Medicine and Biology, 2015, 60, 8851-8867.	1.6	31
80	Feature Selection Based on Machine Learning in MRIs for Hippocampal Segmentation. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-10.	0.7	25
81	A hybrid approach for FFP velocity gridding in MPI reconstruction. , 2015, , .		2
82	Standardized evaluation of algorithms for computer-aided diagnosis of dementia based on structural MRI: The CADDementia challenge. NeuroImage, 2015, 111, 562-579.	2.1	266
83	An Hippocampal Segmentation Tool Within an Open Cloud Infrastructure. Lecture Notes in Computer Science, 2015, , 193-200.	1.0	0
84	Automated voxel-by-voxel tissue classification for hippocampal segmentation: Methods and validation. Physica Medica, 2014, 30, 878-887.	0.4	31
85	Post-detection analysis for grating-based ultra-small angle X-ray scattering. Physica Medica, 2013, 29, 478-486.	0.4	9
86	Random Forest Classification for Hippocampal Segmentation in 3D MR Images. , 2013, , .		9
87	Alzheimer's disease markers from structural MRI and FDG-PET brain images. European Physical Journal Plus, 2012, 127, 1.	1.2	15
88	Deconvolution by finite-size-source effects of x-ray phase-contrast images. Medical Physics, 2011, 38, 1951-1961.	1.6	7
89	Automatic Lung Segmentation in CT Images with Accurate Handling of the Hilar Region. Journal of Digital Imaging, 2011, 24, 11-27.	1.6	74
90	Combined mixed approach algorithm for in-line phase-contrast x-ray imaging. Medical Physics, 2010, 37, 3817-3827.	1.6	9

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91	Comparing and combining algorithms for computer-aided detection of pulmonary nodules in computed tomography scans: The ANODE09 study. Medical Image Analysis, 2010, 14, 707-722.	7.0	245
92	Digital Image Processing in Medical Applications, April 22, 2008. , 2010, , 457-473.		0
93	Pleural nodule identification in low-dose and thin-slice lung computed tomography. Computers in Biology and Medicine, 2009, 39, 1137-1144.	3.9	36
94	A theoretical study on phase–contrast mammography with Thomson–scattering x–ray sources. Medical Physics, 2009, 36, 4644-4653.	1.6	14
95	MAGIC-5: an Italian mammographic database of digitised images for research. Radiologia Medica, 2008, 113, 477-485.	4.7	22
96	An innovative lung segmentation algorithm in CT images with accurate delimitation of the hilus pulmonis. , 2008, , .		2
97	An SVM Based Approach for the Analysis Of Mammography Images. AIP Conference Proceedings, 2007, , .	0.3	0
98	A CAD system for nodule detection in low–dose lung CTs based on region growing and a new active contour model. Medical Physics, 2007, 34, 4901-4910.	1.6	91
99	A novel Active Contour Model algorithm for contour detection in complex objects. , 2007, , .		3
100	Ant Colonies for the reconstruction of artificial 3D Objects. , 2007, , .		0
101	Distributed medical images analysis on a Grid infrastructure. Future Generation Computer Systems, 2007, 23, 475-484.	4.9	25
102	Mammogram Segmentation by Contour Searching and Mass Lesions Classification With Neural Network. IEEE Transactions on Nuclear Science, 2006, 53, 2827-2833.	1.2	86
103	A completely automated CAD system for mass detection in a large mammographic database. Medical Physics, 2006, 33, 3066-3075.	1.6	92
104	GPCALMA: An Italian Mammographic Database of Digitized Images for Research. Lecture Notes in Computer Science, 2006, , 384-391.	1.0	8
105	Direct analysis of molybdenum target generated x-ray spectra with a portable device. Medical Physics, 2004, 31, 2763-2770.	1.6	28
106	Measurements of spectral and position resolution on a 16x16 pixel CZT imaging hard x-ray detector. , 2004, , .		8
107	FLUXEN portable equipment for direct X-ray spectra measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 389-390.	0.7	1
108	The CALMA system: an artificial neural network method for detecting masses and microcalcifications in digitized mammograms. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 391-393.	0.7	5

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109	GPCALMA, a mammographic CAD in a GRID connection. International Congress Series, 2003, 1256, 944-949.	0.2	4
110	Diagnostic performance of radiologists with and without different CAD systems for mammography. , 2003, 5034, 51.		6
111	Search of microcalcification clusters with the CALMA CAD station. , 2002, , .		10
112	The CALMA project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 428-429.	0.7	7