

# Roberto Bellotti

## List of Publications by Year in descending order

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Version: 2024-02-01

98  
papers

2,473  
citations

257101

24  
h-index

233125

45  
g-index

100  
all docs

100  
docs citations

100  
times ranked

3276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Satellite data and machine learning reveal a significant correlation between NO2 and COVID-19 mortality. <i>Environmental Research</i> , 2022, 204, 111970.	3.7	6
2	Sustainable development goals: conceptualization, communication and achievement synergies in a complex network framework. <i>Applied Network Science</i> , 2022, 7, 14.	0.8	12
3	Territorial bias in university rankings: a complex network approach. <i>Scientific Reports</i> , 2022, 12, 4995.	1.6	15
4	Psychological counseling in the Italian academic context: Expected needs, activities, and target population in a large sample of students. <i>PLoS ONE</i> , 2022, 17, e0266895.	1.1	6
5	A Machine Learning Approach to Parkinson's Disease Blood Transcriptomics. <i>Genes</i> , 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. <i>NeuroImage: Clinical</i> , 2022, 35, 103082.	1.4	10
7	The interaction between cannabis use and a CB1-related polygenic co-expression index modulates dorsolateral prefrontal activity during working memory processing. <i>Brain Imaging and Behavior</i> , 2021, 15, 288-299.	1.1	11
8	Predicting brain age with complex networks: From adolescence to adulthood. <i>NeuroImage</i> , 2021, 225, 117458.	2.1	39
9	A primer on machine learning techniques for genomic applications. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 4345-4359.	1.9	8
10	A Proposal of Quantum-Inspired Machine Learning for Medical Purposes: An Application Case. <i>Mathematics</i> , 2021, 9, 410.	1.1	7
11	A Clinical Decision Support System for Predicting Invasive Breast Cancer Recurrence: Preliminary Results. <i>Frontiers in Oncology</i> , 2021, 11, 576007.	1.3	21
12	Economic Interplay Forecasting Business Success. <i>Complexity</i> , 2021, 2021, 1-12.	0.9	9
13	A Roadmap towards Breast Cancer Therapies Supported by Explainable Artificial Intelligence. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4881.	1.3	24
14	Complex Network Modelling of Origin-Destination Commuting Flows for the COVID-19 Epidemic Spread Analysis in Italian Lombardy Region. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4381.	1.3	7
15	Explainable Deep Learning for Personalized Age Prediction With Brain Morphology. <i>Frontiers in Neuroscience</i> , 2021, 15, 674055.	1.4	38
16	Characterization of real-world networks through quantum potentials. <i>PLoS ONE</i> , 2021, 16, e0254384.	1.1	5
17	Association between Structural Connectivity and Generalized Cognitive Spectrum in Alzheimer's Disease. <i>Brain Sciences</i> , 2020, 10, 879.	1.1	11
18	PSI Clustering for the Assessment of Underground Infrastructure Deterioration. <i>Remote Sensing</i> , 2020, 12, 3681.	1.8	5

#	ARTICLE	IF	CITATIONS
19	An equity-oriented rethink of global rankings with complex networks mapping development. Scientific Reports, 2020, 10, 18046.	1.6	13
20	Potential energy of complex networks: a quantum mechanical perspective. Scientific Reports, 2020, 10, 18387.	1.6	9
21	Radiomic Analysis in Contrast-Enhanced Spectral Mammography for Predicting Breast Cancer Histological Outcome. Diagnostics, 2020, 10, 708.	1.3	57
22	Machine Learning for Cloud Detection of Globally Distributed Sentinel-2 Images. Remote Sensing, 2020, 12, 2355.	1.8	18
23	Multi-Time-Scale Features for Accurate Respiratory Sound Classification. Applied Sciences (Switzerland), 2020, 10, 8606.	1.3	27
24	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
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 Alzheimer'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	Communicability disruption in Alzheimer's disease connectivity networks. Journal of Complex Networks, 2019, 7, 83-100.	1.1	26
31	Association between miRNAs expression and cognitive performances of Pediatric Multiple Sclerosis patients: A pilot study. Brain and Behavior, 2019, 9, e01199.	1.0	26
32	Communicability Characterization of Structural DWI Subcortical Networks in Alzheimer's Disease. Entropy, 2019, 21, 475.	1.1	14
33	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
34	Deep Learning and Multiplex Networks for Accurate Modeling of Brain Age. Frontiers in Aging Neuroscience, 2019, 11, 115.	1.7	41
35	Modelling cognitive loads in schizophrenia by means of new functional dynamic indexes. NeuroImage, 2019, 195, 150-164.	2.1	24
36	Radiomics Analysis on Contrast-Enhanced Spectral Mammography Images for Breast Cancer Diagnosis: A Pilot Study. Entropy, 2019, 21, 1110.	1.1	38

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37	Shannon entropy approach reveals relevant genes in Alzheimer's disease. PLoS ONE, 2019, 14, e0226190.	1.1	19
38	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
39	The PERSON project: a serious brain-computer interface game for treatment in cognitive impairment. Health and Technology, 2019, 9, 123-133.	2.1	12
40	Multidimensional Neuroimaging Processing in ReCaS Datacenter. Lecture Notes in Computer Science, 2019, , 468-477.	1.0	2
41	Age Related Topological Analysis of Synchronization-Based Functional Connectivity. Studies in Computational Intelligence, 2019, , 652-662.	0.7	0
42	Applications of PDEs inpainting to magnetic particle imaging and corneal topography. Opuscula Mathematica, 2019, 39, 453-482.	0.3	3
43	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
44	Salient networks: a novel application to study Alzheimer disease. BioMedical Engineering OnLine, 2018, 17, 162.	1.3	1
45	Multiplex Networks for Early Diagnosis of Alzheimer's Disease. Frontiers in Aging Neuroscience, 2018, 10, 365.	1.7	43
46	Complex networks reveal early MRI markers of Parkinson's disease. Medical Image Analysis, 2018, 48, 12-24.	7.0	112
47	A novel approach to brain connectivity reveals early structural changes in Alzheimer's disease. Physiological Measurement, 2018, 39, 074005.	1.2	22
48	Alzheimer's disease diagnosis based on the Hippocampal Unified Multi-Atlas Network (HUMAN) algorithm. BioMedical Engineering OnLine, 2018, 17, 6.	1.3	28
49	A complex network approach reveals a pivotal substructure of genes linked to schizophrenia. PLoS ONE, 2018, 13, e0190110.	1.1	22
50	DTI measurements for Alzheimer's classification. Physics in Medicine and Biology, 2017, 62, 2361-2375.	1.6	57
51	Salient Networks: A Novel Application to Study Brain Connectivity. Lecture Notes in Computer Science, 2017, , 444-453.	1.0	1
52	A Multiplex Network Model to Characterize Brain Atrophy in Structural MRI. Springer Proceedings in Physics, 2017, , 189-198.	0.1	8
53	Topological Complex Networks Properties for Gene Community Detection Strategy: DRD2 Case Study. Springer Proceedings in Physics, 2017, , 199-208.	0.1	3
54	A fuzzy-based system reveals Alzheimer's Disease onset in subjects with Mild Cognitive Impairment. Physica Medica, 2017, 38, 36-44.	0.4	18

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55	A Novel Synchronization-Based Approach for Functional Connectivity Analysis. Complexity, 2017, 2017, 1-12.	0.9	15
56	Multivariate regression analysis of structural MRI connectivity matrices in Alzheimer's disease. PLoS ONE, 2017, 12, e0187281.	1.1	15
57	Hough transform for clustered microcalcifications detection in full-field digital mammograms. , 2017, , .		14
58	Machine learning for the assessment of Alzheimer's disease through DTI. , 2017, , .		2
59	A multi-layer MRI description of Parkinson's disease. , 2017, , .		0
60	Association between MRI structural features and cognitive measures in pediatric multiple sclerosis. , 2017, , .		0
61	Computer Aided Detection System for Prediction of the Malaise during Hemodialysis. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-10.	0.7	4
62	Crowdsourced estimation of cognitive decline and resilience in Alzheimer's disease. Alzheimer's and Dementia, 2016, 12, 645-653.	0.4	72
63	Automated hippocampal segmentation in 3D MRI using random undersampling with boosting algorithm. Pattern Analysis and Applications, 2016, 19, 579-591.	3.1	24
64	Integrating longitudinal information in hippocampal volume measurements for the early detection of Alzheimer's disease. NeuroImage, 2016, 125, 834-847.	2.1	76
65	Complex networks and public funding: the case of the 2007-2013 Italian program. EPJ Data Science, 2015, 4, .	1.5	3
66	Functional Connectivity of EEG Signals Under Laser Stimulation in Migraine. Frontiers in Human Neuroscience, 2015, 9, 640.	1.0	28
67	Feature Selection Based on Machine Learning in MRIs for Hippocampal Segmentation. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-10.	0.7	25
68	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
69	An Hippocampal Segmentation Tool Within an Open Cloud Infrastructure. Lecture Notes in Computer Science, 2015, , 193-200.	1.0	0
70	Automatic temporal lobe atrophy assessment in prodromal AD: Data from the DESCRIPA study. Alzheimer's and Dementia, 2014, 10, 456-467.	0.4	16
71	Effective connectivity and cortical information flow under visual stimulation in migraine with aura. , 2013, , .		1
72	Random Forest Classification for Hippocampal Segmentation in 3D MR Images. , 2013, , .		9

#	ARTICLE	IF	CITATIONS
73	Fully automated hippocampus segmentation with virtual ant colonies. , 2012, , .		5
74	Editorial: Advanced physical methods in brain research. European Physical Journal Plus, 2012, 127, 1.	1.2	10
75	Combination of computer-aided detection algorithms for automatic lung nodule identification. International Journal of Computer Assisted Radiology and Surgery, 2012, 7, 455-464.	1.7	46
76	Structural and functional brain imaging in the assessment of prodromal Alzheimer's disease. , 2011, , .		0
77	Local MRI analysis approach in the diagnosis of early and prodromal Alzheimer's disease. NeuroImage, 2011, 58, 469-480.	2.1	161
78	A Dynamical Model for Forecasting Operational Losses. SSRN Electronic Journal, 2011, , .	0.4	0
79	Deconvolution by finite-size-source effects of x-ray phase-contrast images. Medical Physics, 2011, 38, 1951-1961.	1.6	7
80	Improving the channeler ant model for lung CT analysis. , 2011, , .		0
81	3D measurements for tumours malignancies early diagnosis. , 2011, , .		0
82	Automatic Lung Segmentation in CT Images with Accurate Handling of the Hilar Region. Journal of Digital Imaging, 2011, 24, 11-27.	1.6	74
83	Algorithms for automatic detection of lung nodules in CT scans. , 2011, , .		4
84	Hippocampal segmentation by Random Forest classification. , 2011, , .		2
85	A dynamical approach to operational risk measurement. Journal of Operational Risk, 2011, 6, 3-19.	0.0	7
86	Combined mixed approach algorithm for inâ€line phaseâ€contrast xâ€ray imaging. Medical Physics, 2010, 37, 3817-3827.	1.6	9
87	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
88	Analysis of X-ray Structures of Matrix Metalloproteinases via Chaotic Map Clustering. BMC Bioinformatics, 2010, 11, 500.	1.2	10
89	3-D object segmentation using ant colonies. Pattern Recognition, 2010, 43, 1476-1490.	5.1	24
90	Digital Image Processing in Medical Applications, April 22, 2008. , 2010, , 457-473.		0

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91	A bioinformatics knowledge discovery in text application for grid computing. BMC Bioinformatics, 2009, 10, S23.	1.2	4
92	Automatic analysis of medial temporal lobe atrophy from structural MRIs for the early assessment of Alzheimer disease. Medical Physics, 2009, 36, 3737-3747.	1.6	39
93	A theoretical study on phase-contrast mammography with Thomson's scattering x-ray sources. Medical Physics, 2009, 36, 4644-4653.	1.6	14
94	Automatic Localization of the Hippocampal Region in MR Images to Asses Early Diagnosis of Alzheimer's Disease in MCI Patients. , 2008, , .		1
95	The Channeler Ant Model: Object segmentation with virtual ant colonies. , 2008, , .		5
96	Hausdorff clustering. Physical Review E, 2008, 78, 046112.	0.8	15
97	An innovative lung segmentation algorithm in CT images with accurate delimitation of the hilus pulmonis. , 2008, , .		2
98	Hausdorff clustering of financial time series. Physica A: Statistical Mechanics and Its Applications, 2007, 379, 635-644.	1.2	41