

# Antonio Brunetti

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

1,533  
citations

304602

22  
h-index

360920

35  
g-index

84  
all docs

84  
docs citations

84  
times ranked

1627  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of glomerulosclerosis using IBM Watson and shallow neural networks. Journal of Nephrology, 2022, 35, 1235-1242.	0.9	6
2	Evaluation of Vision-Based Hand Tool Tracking Methods for Quality Assessment and Training in Human-Centered Industry 4.0. Applied Sciences (Switzerland), 2022, 12, 1796.	1.3	7
3	Movement observation activates motor cortex in fibromyalgia patients: a fNIRS study. Scientific Reports, 2022, 12, 4707.	1.6	7
4	Liver, kidney and spleen segmentation from CT scans and MRI with deep learning: A survey. Neurocomputing, 2022, 490, 30-53.	3.5	24
5	Thin thickness gilding determined by x-rays ratios from EDXRF spectra. X-Ray Spectrometry, 2022, 51, 170-177.	0.9	1
6	Focal Dice Loss-Based V-Net for Liver Segments Classification. Applied Sciences (Switzerland), 2022, 12, 3247.	1.3	10
7	A Machine Learning and Radiomics Approach in Lung Cancer for Predicting Histological Subtype. Applied Sciences (Switzerland), 2022, 12, 5829.	1.3	6
8	Shape-Based Breast Lesion Classification Using Digital Tomosynthesis Images: The Role of Explainable Artificial Intelligence. Applied Sciences (Switzerland), 2022, 12, 6230.	1.3	12
9	Deep learning for processing electromyographic signals: A taxonomy-based survey. Neurocomputing, 2021, 452, 549-565.	3.5	34
10	Deep learning and generative adversarial networks in oral and maxillofacial surgery. , 2021, , 55-82.		0
11	Intelligent Neonatal Sepsis Early Diagnosis System for Very Low Birth Weight Infants. Applied Sciences (Switzerland), 2021, 11, 404.	1.3	3
12	Multi-class Tissue Classification in Colorectal Cancer with Handcrafted and Deep Features. Lecture Notes in Computer Science, 2021, , 512-525.	1.0	3
13	Modular MA-XRF Scanner Development in the Multi-Analytical Characterisation of a 17th Century Azulejo from Portugal. Sensors, 2021, 21, 1913.	2.1	8
14	On the use of hand-held X-ray fluorescence spectroscopy coupled to Monte Carlo simulations for the depth assessment of painted objects: The case study of a sixteenth-century illuminated printed book. European Physical Journal Plus, 2021, 136, 1.	1.2	2
15	Segmentation and Identification of Vertebrae in CT Scans Using CNN, k-Means Clustering and k-NN. Informatics, 2021, 8, 40.	2.4	23
16	Monte Carlo Simulations of ED-XRF Spectra as an Authentication Tool for Nuragic Bronzes. Heritage, 2021, 4, 1912-1919.	0.9	3
17	Lung Segmentation and Characterization in COVID-19 Patients for Assessing Pulmonary Thromboembolism: An Approach Based on Deep Learning and Radiomics. Electronics (Switzerland), 2021, 10, 2475.	1.8	14
18	A Nonlinear Autoencoder for Kinematic Synergy Extraction from Movement Data Acquired with HTC Vive Trackers. Smart Innovation, Systems and Technologies, 2021, , 231-241.	0.5	3

#	ARTICLE	IF	CITATIONS
19	A neural network for glomerulus classification based on histological images of kidney biopsy. BMC Medical Informatics and Decision Making, 2021, 21, 300.	1.5	4
20	Predictive Machine Learning Models and Survival Analysis for COVID-19 Prognosis Based on Hematochemical Parameters. Sensors, 2021, 21, 8503.	2.1	9
21	A Deep Learning Instance Segmentation Approach for Global Glomerulosclerosis Assessment in Donor Kidney Biopsies. Electronics (Switzerland), 2020, 9, 1768.	1.8	30
22	Comparative Analysis of Rhino-Cytological Specimens with Image Analysis and Deep Learning Techniques. Electronics (Switzerland), 2020, 9, 952.	1.8	7
23	Mutual interaction between motor cortex activation and pain in fibromyalgia: EEG-fNIRS study. PLoS ONE, 2020, 15, e0228158.	1.1	28
24	Semantic Segmentation Framework for Glomeruli Detection and Classification in Kidney Histological Sections. Electronics (Switzerland), 2020, 9, 503.	1.8	45
25	A Tversky Loss-Based Convolutional Neural Network for Liver Vessels Segmentation. Lecture Notes in Computer Science, 2020, , 342-354.	1.0	10
26	Testing the Accuracy of the Calculation of Gold Leaf Thickness by MC Simulations and MA-XRF Scanning. Applied Sciences (Switzerland), 2020, 10, 3582.	1.3	13
27	A Multi-modal Tool Suite for Parkinson's Disease Evaluation and Grading. Smart Innovation, Systems and Technologies, 2020, , 257-268.	0.5	1
28	A Deep Learning Approach for Hepatocellular Carcinoma Grading. , 2020, , 353-371.		0
29	A Novel Approach Based on Region Growing Algorithm for Liver and Spleen Segmentation from CT Scans. Lecture Notes in Computer Science, 2020, , 398-410.	1.0	2
30	Mutual interaction between motor cortex activation and pain in fibromyalgia: EEG-fNIRS study. , 2020, 15, e0228158.		0
31	Mutual interaction between motor cortex activation and pain in fibromyalgia: EEG-fNIRS study. , 2020, 15, e0228158.		0
32	Mutual interaction between motor cortex activation and pain in fibromyalgia: EEG-fNIRS study. , 2020, 15, e0228158.		0
33	Mutual interaction between motor cortex activation and pain in fibromyalgia: EEG-fNIRS study. , 2020, 15, e0228158.		0
34	A performance comparison between shallow and deeper neural networks supervised classification of tomosynthesis breast lesions images. Cognitive Systems Research, 2019, 53, 3-19.	1.9	34
35	A neural network-based software to recognise blepharospasm symptoms and to measure eye closure time. Computers in Biology and Medicine, 2019, 112, 103376.	3.9	7
36	A Survey on Deep Learning in Electromyographic Signal Analysis. Lecture Notes in Computer Science, 2019, , 751-761.	1.0	13

#	ARTICLE	IF	CITATIONS
37	Feasibility of a Non-immersive Virtual Reality Training on Functional Living Skills Applied to Person with Major Neurocognitive Disorder. Lecture Notes in Computer Science, 2019, , 692-703.	1.0	2
38	Proposal of a health care network based on big data analytics for PDs. Journal of Engineering, 2019, 2019, 4603-4611.	0.6	6
39	A low-cost vision system based on the analysis of motor features for recognition and severity rating of Parkinsonâ€™s Disease. BMC Medical Informatics and Decision Making, 2019, 19, 243.	1.5	48
40	A comparison between two semantic deep learning frameworks for the autosomal dominant polycystic kidney disease segmentation based on magnetic resonance images. BMC Medical Informatics and Decision Making, 2019, 19, 244.	1.5	25
41	Biometric handwriting analysis to support Parkinsonâ€™s Disease assessment and grading. BMC Medical Informatics and Decision Making, 2019, 19, 252.	1.5	23
42	Computer-assisted frameworks for classification of liver, breast and blood neoplasias via neural networks: A survey based on medical images. Neurocomputing, 2019, 335, 274-298.	3.5	51
43	A model-free technique based on computer vision and sEMG for classification in Parkinsonâ€™s disease by using computer-assisted handwriting analysis. Pattern Recognition Letters, 2019, 121, 28-36.	2.6	32
44	An Innovative Neural Network Framework for Glomerulus Classification Based on Morphological and Texture Features Evaluated in Histological Images of Kidney Biopsy. Lecture Notes in Computer Science, 2019, , 727-738.	1.0	8
45	Detection and Segmentation of Kidneys from Magnetic Resonance Images in Patients with Autosomal Dominant Polycystic Kidney Disease. Lecture Notes in Computer Science, 2019, , 639-650.	1.0	13
46	A Novel Deep Learning Approach in Haematology for Classification of Leucocytes. Smart Innovation, Systems and Technologies, 2019, , 265-274.	0.5	6
47	Bioelectrical Correlates of Emotional Changes Induced by Environmental Sound and Colour: From Virtual Reality to Real Life. Biosystems and Biorobotics, 2019, , 982-985.	0.2	0
48	Computer vision and deep learning techniques for pedestrian detection and tracking: A survey. Neurocomputing, 2018, 300, 17-33.	3.5	353
49	A Supervised Approach to Classify the Status of Bone Mineral Density in Post-Menopausal Women through Static and Dynamic Baropodometry. , 2018, , .		9
50	A comparison between ANN and SVM classifiers for Parkinsonâ€™s disease by using a model-free computer-assisted handwriting analysis based on biometric signals. , 2018, , .		9
51	A RGB-D Sensor Based Tool for Assessment and Rating of Movement Disorders. Advances in Intelligent Systems and Computing, 2018, , 110-118.	0.5	7
52	A Wearable Device Supporting Multiple Touch- and Gesture-Based Languages for the Deaf-Blind. Advances in Intelligent Systems and Computing, 2018, , 32-41.	0.5	9
53	A Deep Learning Approach for the Automatic Detection and Segmentation in Autosomal Dominant Polycystic Kidney Disease Based on Magnetic Resonance Images. Lecture Notes in Computer Science, 2018, , 643-649.	1.0	10
54	A Model-Free Computer-Assisted Handwriting Analysis Exploiting Optimal Topology ANNs on Biometric Signals in Parkinsonâ€™s Disease Research. Lecture Notes in Computer Science, 2018, , 650-655.	1.0	7

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55	First results on the use of a EDXRF scanner for 3D imaging of paintings. Acta IMEKO (2012), 2018, 7, 8.	0.4	4
56	Enabling Touch-Based Communication in Wearable Devices for People with Sensory and Multisensory Impairments. Advances in Intelligent Systems and Computing, 2018, , 149-159.	0.5	4
57	Photogrammetric Meshes and 3D Points Cloud Reconstruction: A Genetic Algorithm Optimization Procedure. Communications in Computer and Information Science, 2017, , 65-76.	0.4	3
58	An innovative neural network framework to classify blood vessels and tubules based on Haralick features evaluated in histological images of kidney biopsy. Neurocomputing, 2017, 228, 143-153.	3.5	32
59	A novel approach for Hepatocellular Carcinoma detection and classification based on triphasic CT Protocol. , 2017, , .		23
60	Face Recognition, Musical Appraisal, and Emotional Crossmodal Bias. Frontiers in Behavioral Neuroscience, 2017, 11, 144.	1.0	2
61	A Deep Learning Approach for Hepatocellular Carcinoma Grading. International Journal of Computer Vision and Image Processing, 2017, 7, 1-18.	0.3	6
62	A Supervised Breast Lesion Images Classification from Tomosynthesis Technique. Lecture Notes in Computer Science, 2017, , 483-489.	1.0	6
63	Computer Vision and EMG-Based Handwriting Analysis for Classification in Parkinsonâ€™s Disease. Lecture Notes in Computer Science, 2017, , 493-503.	1.0	17
64	A Novel Approach in Combination of 3D Gait Analysis Data for Aiding Clinical Decision-Making in Patients with Parkinsonâ€™s Disease. Lecture Notes in Computer Science, 2017, , 504-514.	1.0	10
65	A Computer Aided Ophthalmic Diagnosis System Based on Tomographic Features. Lecture Notes in Computer Science, 2017, , 598-609.	1.0	3
66	A Comprehensive Method for Assessing the Blepharospasm Cases Severity. Communications in Computer and Information Science, 2017, , 369-381.	0.4	5
67	Synthesis of a Neural Network Classifier for Hepatocellular Carcinoma Grading Based on Triphasic CT Images. Communications in Computer and Information Science, 2017, , 356-368.	0.4	5
68	Testing a novel method for improving wayfinding by means of a P3b Virtual Reality Visual Paradigm in normal aging. SpringerPlus, 2016, 5, 1297.	1.2	31
69	Design and Development of a Forearm Rehabilitation System Based on an Augmented Reality Serious Game. Communications in Computer and Information Science, 2016, , 127-136.	0.4	8
70	An Optimized Feed-forward Artificial Neural Network Topology to Support Radiologists in Breast Lesions Classification. , 2016, , .		31
71	A novel approach to evaluate blood parameters using computer vision techniques. , 2016, , .		35
72	Computer Assisted Detection of Breast Lesions in Magnetic Resonance Images. Lecture Notes in Computer Science, 2016, , 306-316.	1.0	4

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73	A combined XRF/Monte Carlo simulation study of multilayered Peruvian metal artifacts from the tomb of the Priestess of Chornancap. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	21
74	Classification of Healthy Subjects and Alzheimer's Disease Patients with Dementia from Cortical Sources of Resting State EEG Rhythms: A Study Using Artificial Neural Networks. <i>Frontiers in Neuroscience</i> , 2016, 10, 604.	1.4	51
75	The structure of two-layered objects reconstructed using EDXRF analysis and internal X-ray ratios. <i>X-Ray Spectrometry</i> , 2015, 44, 233-238.	0.9	24
76	Use of Monte Carlo simulations for cultural heritage X-ray fluorescence analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 108, 15-20.	1.5	27
77	A P300 Clustering of Mild Cognitive Impairment Patients Stimulated in an Immersive Virtual Reality Scenario. <i>Lecture Notes in Computer Science</i> , 2015, , 226-236.	1.0	5
78	Monte Carlo simulation of X-ray imaging and spectroscopy experiments using quadric geometry and variance reduction techniques. <i>Computer Physics Communications</i> , 2014, 185, 1044-1052.	3.0	65
79	A new Monte Carlo code for simulation of the effect of irregular surfaces on X-ray spectra. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 94-95, 58-62.	1.5	24
80	Multilayered samples reconstructed by measuring $K_{\alpha}^{\pm}/K_{\beta}^{\pm}$ or $L_{\alpha}^{\pm}/L_{\beta}^{\pm}$ X-ray intensity ratios by EDXRF. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2013, 312, 15-22.	0.6	50
81	Metal location and thickness in a multilayered sheet by measuring $K_{\alpha}^{\pm}/K_{\beta}^{\pm}$ , $L_{\alpha}^{\pm}/L_{\beta}^{\pm}$ and $L_{\alpha}^{\pm}/L_{\gamma}^{\pm}$ X-ray ratios. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2009, 267, 2890-2896.	0.6	45