

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	Computer vision and deep learning techniques for pedestrian detection and tracking: A survey. <i>Neurocomputing</i> , 2018, 300, 17-33.	3.5	353
2	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
3	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
4	Computer-assisted frameworks for classification of liver, breast and blood neoplasias via neural networks: A survey based on medical images. <i>Neurocomputing</i> , 2019, 335, 274-298.	3.5	51
5	Multilayered samples reconstructed by measuring K_{\pm}/K_{\pm}^2 or L_{\pm}/L_{\pm}^2 X-ray intensity ratios by EDXRF. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 312, 15-22.	0.6	50
6	A low-cost vision system based on the analysis of motor features for recognition and severity rating of Parkinson's Disease. <i>BMC Medical Informatics and Decision Making</i> , 2019, 19, 243.	1.5	48
7	Metal location and thickness in a multilayered sheet by measuring K_{\pm}/K_{\pm}^2 , L_{\pm}/L_{\pm}^2 and L_{\pm}/L_{\pm}^3 X-ray ratios. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 2890-2896.	0.6	45
8	Semantic Segmentation Framework for Glomeruli Detection and Classification in Kidney Histological Sections. <i>Electronics (Switzerland)</i> , 2020, 9, 503.	1.8	45
9	A novel approach to evaluate blood parameters using computer vision techniques. , 2016, , .		35
10	A performance comparison between shallow and deeper neural networks supervised classification of tomosynthesis breast lesions images. <i>Cognitive Systems Research</i> , 2019, 53, 3-19.	1.9	34
11	Deep learning for processing electromyographic signals: A taxonomy-based survey. <i>Neurocomputing</i> , 2021, 452, 549-565.	3.5	34
12	An innovative neural network framework to classify blood vessels and tubules based on Haralick features evaluated in histological images of kidney biopsy. <i>Neurocomputing</i> , 2017, 228, 143-153.	3.5	32
13	A model-free technique based on computer vision and sEMG for classification in Parkinson's disease by using computer-assisted handwriting analysis. <i>Pattern Recognition Letters</i> , 2019, 121, 28-36.	2.6	32
14	Testing a novel method for improving wayfinding by means of a P3b Virtual Reality Visual Paradigm in normal aging. <i>SpringerPlus</i> , 2016, 5, 1297.	1.2	31
15	An Optimized Feed-forward Artificial Neural Network Topology to Support Radiologists in Breast Lesions Classification. , 2016, , .		31
16	A Deep Learning Instance Segmentation Approach for Global Glomerulosclerosis Assessment in Donor Kidney Biopsies. <i>Electronics (Switzerland)</i> , 2020, 9, 1768.	1.8	30
17	Mutual interaction between motor cortex activation and pain in fibromyalgia: EEG-fNIRS study. <i>PLoS ONE</i> , 2020, 15, e0228158.	1.1	28
18	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

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19	A comparison between two semantic deep learning frameworks for the autosomal dominant polycystic kidney disease segmentation based on magnetic resonance images. <i>BMC Medical Informatics and Decision Making</i> , 2019, 19, 244.	1.5	25
20	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
21	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
22	Liver, kidney and spleen segmentation from CT scans and MRI with deep learning: A survey. <i>Neurocomputing</i> , 2022, 490, 30-53.	3.5	24
23	A novel approach for Hepatocellular Carcinoma detection and classification based on triphasic CT Protocol. , 2017, , .		23
24	Biometric handwriting analysis to support Parkinson's Disease assessment and grading. <i>BMC Medical Informatics and Decision Making</i> , 2019, 19, 252.	1.5	23
25	Segmentation and Identification of Vertebrae in CT Scans Using CNN, k-Means Clustering and k-NN. <i>Informatics</i> , 2021, 8, 40.	2.4	23
26	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
27	Computer Vision and EMG-Based Handwriting Analysis for Classification in Parkinson's Disease. <i>Lecture Notes in Computer Science</i> , 2017, , 493-503.	1.0	17
28	Lung Segmentation and Characterization in COVID-19 Patients for Assessing Pulmonary Thromboembolism: An Approach Based on Deep Learning and Radiomics. <i>Electronics (Switzerland)</i> , 2021, 10, 2475.	1.8	14
29	A Survey on Deep Learning in Electromyographic Signal Analysis. <i>Lecture Notes in Computer Science</i> , 2019, , 751-761.	1.0	13
30	Detection and Segmentation of Kidneys from Magnetic Resonance Images in Patients with Autosomal Dominant Polycystic Kidney Disease. <i>Lecture Notes in Computer Science</i> , 2019, , 639-650.	1.0	13
31	Testing the Accuracy of the Calculation of Gold Leaf Thickness by MC Simulations and MA-XRF Scanning. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3582.	1.3	13
32	Shape-Based Breast Lesion Classification Using Digital Tomosynthesis Images: The Role of Explainable Artificial Intelligence. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6230.	1.3	12
33	A Tversky Loss-Based Convolutional Neural Network for Liver Vessels Segmentation. <i>Lecture Notes in Computer Science</i> , 2020, , 342-354.	1.0	10
34	A Novel Approach in Combination of 3D Gait Analysis Data for Aiding Clinical Decision-Making in Patients with Parkinson's Disease. <i>Lecture Notes in Computer Science</i> , 2017, , 504-514.	1.0	10
35	A Deep Learning Approach for the Automatic Detection and Segmentation in Autosomal Dominant Polycystic Kidney Disease Based on Magnetic Resonance Images. <i>Lecture Notes in Computer Science</i> , 2018, , 643-649.	1.0	10
36	Focal Dice Loss-Based V-Net for Liver Segments Classification. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3247.	1.3	10

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37	A Supervised Approach to Classify the Status of Bone Mineral Density in Post-Menopausal Women through Static and Dynamic Baropodometry. , 2018, , .		9
38	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
39	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
40	Predictive Machine Learning Models and Survival Analysis for COVID-19 Prognosis Based on Hemochemical Parameters. Sensors, 2021, 21, 8503.	2.1	9
41	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
42	Modular MA-XRF Scanner Development in the Multi-Analytical Characterisation of a 17th Century Azulejo from Portugal. Sensors, 2021, 21, 1913.	2.1	8
43	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
44	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
45	Comparative Analysis of Rhino-Cytological Specimens with Image Analysis and Deep Learning Techniques. Electronics (Switzerland), 2020, 9, 952.	1.8	7
46	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
47	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
48	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
49	Movement observation activates motor cortex in fibromyalgia patients: a fNIRS study. Scientific Reports, 2022, 12, 4707.	1.6	7
50	A Deep Learning Approach for Hepatocellular Carcinoma Grading. International Journal of Computer Vision and Image Processing, 2017, 7, 1-18.	0.3	6
51	Proposal of a health care network based on big data analytics for PDs. Journal of Engineering, 2019, 2019, 4603-4611.	0.6	6
52	A Supervised Breast Lesion Images Classification from Tomosynthesis Technique. Lecture Notes in Computer Science, 2017, , 483-489.	1.0	6
53	A Novel Deep Learning Approach in Haematology for Classification of Leucocytes. Smart Innovation, Systems and Technologies, 2019, , 265-274.	0.5	6
54	Identification of glomerulosclerosis using IBM Watson and shallow neural networks. Journal of Nephrology, 2022, 35, 1235-1242.	0.9	6

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55	A Machine Learning and Radiomics Approach in Lung Cancer for Predicting Histological Subtype. Applied Sciences (Switzerland), 2022, 12, 5829.	1.3	6
56	A P300 Clustering of Mild Cognitive Impairment Patients Stimulated in an Immersive Virtual Reality Scenario. Lecture Notes in Computer Science, 2015, , 226-236.	1.0	5
57	A Comprehensive Method for Assessing the Blepharospasm Cases Severity. Communications in Computer and Information Science, 2017, , 369-381.	0.4	5
58	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
59	Computer Assisted Detection of Breast Lesions in Magnetic Resonance Images. Lecture Notes in Computer Science, 2016, , 306-316.	1.0	4
60	First results on the use of a EDXRF scanner for 3D imaging of paintings. Acta IMEKO (2012), 2018, 7, 8.	0.4	4
61	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
62	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
63	Photogrammetric Meshes and 3D Points Cloud Reconstruction: A Genetic Algorithm Optimization Procedure. Communications in Computer and Information Science, 2017, , 65-76.	0.4	3
64	Intelligent Neonatal Sepsis Early Diagnosis System for Very Low Birth Weight Infants. Applied Sciences (Switzerland), 2021, 11, 404.	1.3	3
65	Multi-class Tissue Classification in Colorectal Cancer with Handcrafted and Deep Features. Lecture Notes in Computer Science, 2021, , 512-525.	1.0	3
66	Monte Carlo Simulations of ED-XRF Spectra as an Authentication Tool for Nuragic Bronzes. Heritage, 2021, 4, 1912-1919.	0.9	3
67	A Computer Aided Ophthalmic Diagnosis System Based on Tomographic Features. Lecture Notes in Computer Science, 2017, , 598-609.	1.0	3
68	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
69	Face Recognition, Musical Appraisal, and Emotional Crossmodal Bias. Frontiers in Behavioral Neuroscience, 2017, 11, 144.	1.0	2
70	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
71	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
72	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

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73	A Multi-modal Tool Suite for Parkinson's Disease Evaluation and Grading. Smart Innovation, Systems and Technologies, 2020, , 257-268.	0.5	1
74	Thin thickness gilding determined by x-rays ratios from EDXRF spectra. X-Ray Spectrometry, 2022, 51, 170-177.	0.9	1
75	Deep learning and generative adversarial networks in oral and maxillofacial surgery. , 2021, , 55-82.		0
76	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
77	A Deep Learning Approach for Hepatocellular Carcinoma Grading. , 2020, , 353-371.		0
78	Mutual interaction between motor cortex activation and pain in fibromyalgia: EEG-fNIRS study. , 2020, 15, e0228158.		0
79	Mutual interaction between motor cortex activation and pain in fibromyalgia: EEG-fNIRS study. , 2020, 15, e0228158.		0
80	Mutual interaction between motor cortex activation and pain in fibromyalgia: EEG-fNIRS study. , 2020, 15, e0228158.		0
81	Mutual interaction between motor cortex activation and pain in fibromyalgia: EEG-fNIRS study. , 2020, 15, e0228158.		0