

Giovanni Costantini

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

632
citations

516561

16
h-index

677027

22
g-index

53
all docs

53
docs citations

53
times ranked

472
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular Neural Networks With Virtual Template Expansion for Retinal Vessel Segmentation. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 141-145.	2.3	67
2	Speech emotion recognition using amplitude modulation parameters and a combined feature selection procedure. Knowledge-Based Systems, 2014, 63, 68-81.	4.0	66
3	Worldwide Healthy Adult Voice Baseline Parameters: A Comprehensive Review. Journal of Voice, 2022, 36, 637-649.	0.6	39
4	Toward the Design of a Wearable System for Fall-Risk Detection in Telerehabilitation. Telemedicine Journal and E-Health, 2009, 15, 296-299.	1.6	36
5	Voice analysis in adductor spasmodic dysphonia: Objective diagnosis and response to botulinum toxin. Parkinsonism and Related Disorders, 2020, 73, 23-30.	1.1	35
6	Machine-Learning Analysis of Voice Samples Recorded through Smartphones: The Combined Effect of Ageing and Gender. Sensors, 2020, 20, 5022.	2.1	34
7	Voice Analysis with Machine Learning: One Step Closer to an Objective Diagnosis of Essential Tremor. Movement Disorders, 2021, 36, 1401-1410.	2.2	33
8	Voice in Parkinson's Disease: A Machine Learning Study. Frontiers in Neurology, 2022, 13, 831428.	1.1	32
9	DEMoS: an Italian emotional speech corpus. Language Resources and Evaluation, 2020, 54, 341-383.	1.8	29
10	Associative Memory Design Using Support Vector Machines. IEEE Transactions on Neural Networks, 2006, 17, 1165-1174.	4.8	23
11	Quasi-Lagrangian Neural Network for Convex Quadratic Optimization. IEEE Transactions on Neural Networks, 2008, 19, 1804-1809.	4.8	21
12	Associative Memory Design for 256 Gray-Level Images Using a Multilayer Neural Network. IEEE Transactions on Neural Networks, 2006, 17, 519-522.	4.8	20
13	Event based transcription system for polyphonic piano music. Signal Processing, 2009, 89, 1798-1811.	2.1	20
14	Machine Learning-based Voice Assessment for the Detection of Positive and Recovered COVID-19 Patients. Journal of Voice, 2021, , .	0.6	20
15	Categorical vs Dimensional Perception of Italian Emotional Speech. , 0, , .		19
16	The Emotion Probe: On the Universality of Cross-Linguistic and Cross-Gender Speech Emotion Recognition via Machine Learning. Sensors, 2022, 22, 2461.	2.1	18
17	Towards the enhancement of body standing balance recovery by means of a wireless audio-biofeedback system. Medical Engineering and Physics, 2018, 54, 74-81.	0.8	16
18	A data glove based sensor interface to expressively control musical processes. , 2011, , .		15

#	ARTICLE	IF	CITATIONS
19	Fostering Voice Objective Analysis in Patients with Movement Disorders. <i>Movement Disorders</i> , 2021, 36, 1041-1041.	2.2	13
20	SVM based transcription system with short-term memory oriented to polyphonic piano music. , 2010, , .		12
21	Technology-based therapy-response and prognostic biomarkers in a prospective study of a de novo Parkinsonâ€™s disease cohort. <i>Npj Parkinson's Disease</i> , 2021, 7, 82.	2.5	10
22	Analogic CNN algorithm for estimating position and size of moving objects. <i>International Journal of Circuit Theory and Applications</i> , 2004, 32, 509-522.	1.3	6
23	Towards the Investigation of Kinematic Parameters from an Integrated Measurement Unit for the Classification of the Rising From the Chair. , 2006, 2006, 1742-5.		5
24	A Glove Based Adaptive Sensor Interface for Live Musical Performances. , 2010, , .		4
25	Machine Learning based Voice Analysis in Spasmodic Dysphonia: An Investigation of Most Relevant Features from Specific Vocal Tasks. , 2021, , .		4
26	Reply to: â€œReproducibility of Voice Analysis with Machine Learningâ€. <i>Movement Disorders</i> , 2021, 36, 1283-1284.	2.2	4
27	A Machine Learning-Based Voice Analysis for the Detection of Dysphagia Biomarkers. , 2021, , .		4
28	A New Integrated Kinematic Sensor for the Classification of Sit-to-Stand Locomotion Task. , 2007, , .		3
29	Single-sided objective speech intelligibility assessment based on Sparse signal representation. , 2012, , .		3
30	A CNN-based Algorithm for Moving Object Detection in Stereovision Applications. , 2007, , .		2
31	On the use of memory for detecting musical notes in polyphonic piano music. , 2009, , .		2
32	A novel sensor interface for detecting musical notes of percussive pitched instruments. , 2009, , .		2
33	Recurrent neural network for approximate nonnegative matrix factorization. <i>Neurocomputing</i> , 2014, 138, 238-247.	3.5	2
34	Particle diffusion Monte Carlo (PDMC). <i>Monte Carlo Methods and Applications</i> , 2019, 25, 121-130.	0.3	2
35	Discrimination Between Human Functional Ability/Disability by means of Different Classification Methodologies. , 2007, , .		1
36	A New Adaptive Sensor Interface for Composing and Performing Music in Real Time. , 2007, , .		1

#	ARTICLE	IF	CITATIONS
37	A sensor interface based on sparse NMF for piano musical transcription. , 2011, , .		1
38	Towards the improvement of postural stability through audio bio-feedback. , 2015, , .		1
39	Automatic Emotion Recognition from DEMoS Corpus by Machine Learning Analysis of Selected Vocal Features. , 2021, , .		1
40	Surgical Skill Evaluation by Means of a Sensory Glove and a Neural Network. , 2014, , .		1
41	Sensor Reduction on EMG-based Hand Gesture Classification. , 2014, , .		1
42	Towards an Objective Tool for Evaluating the Surgical Skill. Studies in Computational Intelligence, 2016, , 325-335.	0.7	1
43	A Sensor Which Can Be Varied in Humidity Sensitivity. , 2018, , .		1
44	Machine Learning-based Study of Dysphonic Voices for the Identification and Differentiation of Vocal Cord Paralysis and Vocal Nodules. , 2022, , .		1
45	A Subset of Acoustic Features for Machine Learning-based and Statistical Approaches in Speech Emotion Recognition. , 2022, , .		1
46	An Improved Method for CNN-based Detection of Symmetry Axis in Black and White Images. , 2008, , .		0
47	On the reduction of complexity problem on driving of human hand prosthesis. , 2010, , .		0
48	Optimal mental task discrimination for brain-computer interface. , 2010, , .		0
49	The Sky-Scanner System for Air Traffic Management: Test Sessions and Statistical Analysis. , 2010, , .		0
50	Fully asynchronous neural paradigm. , 2010, , .		0
51	On the use of NMF for onset detection in poliphonic piano music. , 2011, , .		0
52	A NEW PHYSICAL SENSOR BASED ON NEURAL NETWORK FOR MUSICAL EXPRESSIVITY. , 2008, , .		0
53	Statistical Complexity of Boolean Cellular Automata with Short-Term Reaction-Diffusion Memory on a Square Lattice. Complex Systems, 2019, 28, 357-391.	0.9	0