

# Giuseppe Placidi

## List of Publications by Year in descending order

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Version: 2024-02-01

102  
papers

1,535  
citations

331538

21  
h-index

360920

35  
g-index

107  
all docs

107  
docs citations

107  
times ranked

1381  
citing authors

#	ARTICLE	IF	CITATIONS
1	A light CNN for detecting COVID-19 from CT scans of the chest. Pattern Recognition Letters, 2020, 140, 95-100.	2.6	207
2	A semi-immersive virtual reality incremental swing balance task activates prefrontal cortex: A functional near-infrared spectroscopy study. NeuroImage, 2014, 85, 451-460.	2.1	91
3	Emotion Recognition for Human-Robot Interaction: Recent Advances and Future Perspectives. Frontiers in Robotics and AI, 2020, 7, 532279.	2.0	88
4	A real-time classification algorithm for EEG-based BCI driven by self-induced emotions. Computer Methods and Programs in Biomedicine, 2015, 122, 293-303.	2.6	72
5	Design of an efficient framework for fast prototyping of customized human-computer interfaces and virtual environments for rehabilitation. Computer Methods and Programs in Biomedicine, 2013, 110, 490-502.	2.6	53
6	A smart virtual glove for the hand telerehabilitation. Computers in Biology and Medicine, 2007, 37, 1100-1107.	3.9	50
7	Prefrontal Cortex Activated Bilaterally by a Tilt Board Balance Task: A Functional Near-Infrared Spectroscopy Study in a Semi-Immersive Virtual Reality Environment. Brain Topography, 2014, 27, 353-365.	0.8	44
8	pH-sensitive imaging by low-frequency EPR: a model study for biological applications. Physics in Medicine and Biology, 1998, 43, 1921-1930.	1.6	43
9	Basis for the implementation of an EEG-based single-trial binary brain computer interface through the disgust produced by remembering unpleasant odors. Neurocomputing, 2015, 160, 308-318.	3.5	41
10	Gender Differences in Osteoporosis: A Single-Center Observational Study. World Journal of Men's Health, 2021, 39, 750.	1.7	40
11	A Classification Algorithm for Electroencephalography Signals by Self-Induced Emotional Stimuli. IEEE Transactions on Cybernetics, 2016, 46, 3171-3180.	6.2	39
12	Overall design and implementation of the virtual glove. Computers in Biology and Medicine, 2013, 43, 1927-1940.	3.9	37
13	A Radiofrequency (220-MHz) Fourier Transform EPR Spectrometer. Journal of Magnetic Resonance, 1998, 130, 272-280.	1.2	35
14	Theory of Adaptive Acquisition Method for Image Reconstruction from Projections and Application to EPR Imaging. Journal of Magnetic Resonance Series B, 1995, 108, 50-57.	1.6	34
15	Prefrontal Cortex Activation Upon a Demanding Virtual Hand-Controlled Task: A New Frontier for Neuroergonomics. Frontiers in Human Neuroscience, 2016, 10, 53.	1.0	33
16	A Submicrosecond Resonator and Receiver System for Pulsed Magnetic Resonance with Large Samples. Journal of Magnetic Resonance, 1998, 132, 162-166.	1.2	27
17	A low-cost real time virtual system for postural stability assessment at home. Computer Methods and Programs in Biomedicine, 2014, 117, 322-333.	2.6	26
18	EEG-detected olfactory imagery to reveal covert consciousness in minimally conscious state. Brain Injury, 2015, 29, 1729-1735.	0.6	25

#	ARTICLE	IF	CITATIONS
19	Measurements by A LEAP-Based Virtual Glove for the Hand Rehabilitation. <i>Sensors</i> , 2018, 18, 834.	2.1	25
20	New experimental apparatus for multimodal resonance imaging: initial EPRI and NMRI experimental results. <i>Physics in Medicine and Biology</i> , 2001, 46, 1003-1016.	1.6	24
21	Post-processing noise removal algorithm for magnetic resonance imaging based on edge detection and wavelet analysis. <i>Physics in Medicine and Biology</i> , 2003, 48, 1987-1995.	1.6	23
22	Towards EEG-based BCI driven by emotions for addressing BCI-illiteracy: a meta-analytic review. <i>Behaviour and Information Technology</i> , 2018, 37, 855-871.	2.5	21
23	A novel semi-immersive virtual reality visuo-motor task activates ventrolateral prefrontal cortex: a functional near-infrared spectroscopy study. <i>Journal of Neural Engineering</i> , 2016, 13, 036002.	1.8	20
24	Adaptive compression algorithm from projections: Application on medical greyscale images. <i>Computers in Biology and Medicine</i> , 2009, 39, 993-999.	3.9	19
25	Classification of Emotional Signals from the DEAP dataset. , 2016, , .		19
26	Fourier Reconstruction as a Valid Alternative to Filtered Back Projection in Iterative Applications: Implementation of Fourier Spectral Spatial EPR Imaging. <i>Journal of Magnetic Resonance</i> , 1998, 134, 280-286.	1.2	18
27	Versatile coil design and positioning of transverse-field RF surface coils for clinical 1.5-T MRI applications. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2005, 18, 69-75.	1.1	17
28	Nitric Oxide Chemical Donor Affects the Early Phases of In Vitro Wound Healing Process. <i>Journal of Cellular Physiology</i> , 2016, 231, 2185-2195.	2.0	17
29	Review on Patents about Magnetic Localisation Systems for in vivo Catheterizations. <i>Recent Patents on Biomedical Engineering</i> , 2009, 2, 58-64.	0.5	15
30	A virtual ball task driven by forearm movements for neuro-rehabilitation. , 2015, , .		15
31	A Modular Framework for EEG Web Based Binary Brain Computer Interfaces to Recover Communication Abilities in Impaired People. <i>Journal of Medical Systems</i> , 2016, 40, 34.	2.2	15
32	A Virtual Glove System for the Hand Rehabilitation based on Two Orthogonal LEAP Motion Controllers. , 2017, , .		15
33	ï%-Space Adaptive Acquisition Technique for Magnetic Resonance Imaging from Projections. <i>Journal of Magnetic Resonance</i> , 2000, 143, 197-207.	1.2	14
34	Angular Space-Domain Interpolation for Filtered Back Projection Applied to Regular and Adaptively Measured Projections. <i>Journal of Magnetic Resonance Series B</i> , 1996, 110, 75-79.	1.6	13
35	Compact low field magnetic resonance imaging magnet: Design and optimization. <i>Review of Scientific Instruments</i> , 2000, 71, 1534-1538.	0.6	12
36	A shape-based segmentation algorithm for X-ray digital subtraction angiography images. <i>Computer Methods and Programs in Biomedicine</i> , 2009, 94, 267-278.	2.6	12

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37	Characterization of a SimMechanics Model for a Virtual Glove Rehabilitation System. Lecture Notes in Computer Science, 2010, , 141-150.	1.0	12
38	A novel algorithm for the reduction of undersampling artefacts in magnetic resonance images. Magnetic Resonance Imaging, 2004, 22, 1279-1287.	1.0	11
39	A fast and scalable framework for automated artifact recognition from EEG signals represented in scalp topographies of Independent Components. Computers in Biology and Medicine, 2021, 132, 104347.	3.9	11
40	MRI. , 0, , .		11
41	Two-dimensional 220 MHz Fourier transform EPR imaging. Physics in Medicine and Biology, 1998, 43, 1845-1850.	1.6	10
42	Young investigator award presentation at the 13th annual meeting of the esmrmb, september 1996, prague. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1996, 4, 187-193.	1.1	9
43	First imaging results obtained with a multimodal apparatus combining low-field (35.7 mT) MRI and pulsed EPRI. Physics in Medicine and Biology, 2002, 47, N127-N132.	1.6	9
44	Customized First and Second Order Statistics Based Operators to Support Advanced Texture Analysis of MRI Images. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-13.	0.7	9
45	Spline-based deconvolution technique in electron paramagnetic resonance imaging. Review of Scientific Instruments, 1994, 65, 58-62.	0.6	8
46	Classification strategies for a single-trial binary Brain Computer Interface based on remembering unpleasant odors. , 2015, 2015, 7019-22.		8
47	Pulsed EPR imaging: image reconstruction using selective acquisition sequences. Physics in Medicine and Biology, 1999, 44, N137-N144.	1.6	7
48	EPR imaging in biological applications: Towards microtomography. Magnetic Resonance in Chemistry, 1995, 33, S160-S165.	1.1	6
49	A numerical hand model for a virtual glove rehabilitation system. , 2009, , .		6
50	Data integration by two-sensors in a LEAP-based Virtual Glove for human-system interaction. Multimedia Tools and Applications, 2021, 80, 18263-18277.	2.6	6
51	Guidelines for Effective Automatic Multiple Sclerosis Lesion Segmentation by Magnetic Resonance Imaging. , 2020, , .		6
52	Integration of D-shaped gradient coils in a Bruker TM circular cavity for X-band electron spin resonance imaging. Review of Scientific Instruments, 1995, 66, 3715-3716.	0.6	5
53	Automatic optimization strategy for the design of circular multipolar magnets. Journal Physics D: Applied Physics, 2001, 34, 313-318.	1.3	5
54	A composite resonator for simultaneous NMR and EPR imaging experiments. Measurement Science and Technology, 2001, 12, 1325-1329.	1.4	5

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55	Development of an auxiliary system for the execution of vascular catheter interventions with a reduced radiological risk; system description and first experimental results. <i>Computer Methods and Programs in Biomedicine</i> , 2007, 88, 144-151.	2.6	5
56	Automatic Framework for Multiple Sclerosis Follow-up by Magnetic Resonance Imaging for Reducing Contrast Agents. <i>Lecture Notes in Computer Science</i> , 2019, , 367-378.	1.0	5
57	A Poll Oriented Classifier for Affective Brain Computer Interfaces. , 2015, , .		5
58	An open volume, high isolation, radio frequency surface coil system for pulsed magnetic resonance. <i>Journal of Magnetic Resonance</i> , 2004, 171, 353-358.	1.2	4
59	A virtual system for postural stability assessment based on a TOF camera and a mirror. , 2015, , .		4
60	A Brain Computer Interface by EEG Signals from Self-induced Emotions. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2018, , 713-721.	0.5	4
61	SketchSPORE: A Sketch Based Domain Separation and Recognition System for Interactive Interfaces. <i>Lecture Notes in Computer Science</i> , 2013, , 181-190.	1.0	4
62	Combinatorial optimisation in radiotherapy treatment planning. <i>AIMS Medical Science</i> , 2018, 5, 204-223.	0.2	4
63	Adaptive Sampling and Reconstruction for Sparse Magnetic Resonance Imaging. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2014, , 115-130.	0.5	4
64	A novel, cylindrical, transverse gradient coil design for magnetic resonance imaging of large samples. <i>Measurement Science and Technology</i> , 1998, 9, 1663-1671.	1.4	3
65	A novel acquisitionâ€reconstruction algorithm for surface magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2008, 26, 1303-1309.	1.0	3
66	An optimized Java based software package for biomedical images and volumes processing. , 2009, , .		3
67	Hand movement parameters calculated by the LEAP based Virtual Glove. , 2018, , .		3
68	Self-induced emotions as alternative paradigm for driving brainâ€computer interfaces. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2019, 7, 512-519.	1.3	3
69	Chemosensory Event-Related Potentials and Power Spectrum Could Be a Possible Biomarker in 3M Syndrome Infants?. <i>Brain Sciences</i> , 2020, 10, 201.	1.1	3
70	Human Body Language Analysis: A Preliminary Study Based on Kinect Skeleton Tracking. <i>Lecture Notes in Computer Science</i> , 2013, , 465-473.	1.0	3
71	Local Contrast Normalization to Improve Preprocessing in MRI of the Brain. <i>Lecture Notes in Computer Science</i> , 2021, , 255-266.	1.0	3
72	Design of a framework for personalised 3D modelling from medical images. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2015, 3, 76-83.	1.3	2

#	ARTICLE	IF	CITATIONS
73	New experimental modalities of low frequency electron paramagnetic resonance imaging. , 1995, , 69-92.		2
74	A Novel Acceleration Coding/Reconstruction Algorithm for Magnetic Resonance Imaging in Presence of Static Magnetic Field In-Homogeneities. Lecture Notes in Computer Science, 2008, , 1115-1124.	1.0	2
75	Circular Acquisition to Define the Minimal Set of Projections for Optimal MRI Reconstruction. Lecture Notes in Computer Science, 2010, , 254-262.	1.0	2
76	Iterative Adaptive Sparse Sampling Method for Magnetic Resonance Imaging. , 2017, , .		2
77	Optimization of Electron Paramagnetic Resonance Image Reconstruction Using Filtered Back-Projection Followed by Two-Dimensional Deconvolution. Journal of Magnetic Resonance Series A, 1996, 121, 60-64.	1.6	1
78	EPR imaging from projections: errors due to misalignment of projection centres and their rectification by a novel acquisition modality. Physics in Medicine and Biology, 2000, 45, 3135-3142.	1.6	1
79	Design of a Magnetic Localisation System for In-Vivo Endovascular Interventions. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 499-503.	0.5	1
80	BCI driven by self-induced emotions: a multi-class study. , 2018, , .		1
81	Design of a Classification Strategy for Light Microscopy Images of the Human Liver. Lecture Notes in Computer Science, 2017, , 626-636.	1.0	1
82	A Novel Segmentation Algorithm for Digital Subtraction Angiography Images: First Experimental Results. Lecture Notes in Computer Science, 2008, , 612-623.	1.0	1
83	Recent Patents on Magnetic Resonance Imaging Sequences in Presence of Static Magnetic Field in-homogeneity. Recent Patents on Biomedical Engineering, 2009, 2, 73-80.	0.5	1
84	Improved 1.5 T Magnetic Resonance Spectroscopy in the Human Calf with a Spatially Selective Radio Frequency Surface Coil. The Open Spectroscopy Journal, 2010, 4, 1-9.	1.0	1
85	Adaptive Sampling and Non Linear Reconstruction for Cardiac Magnetic Resonance Imaging. Lecture Notes in Computer Science, 2014, , 24-35.	1.0	1
86	Time-of-Flight Camera Based Virtual Reality Interaction for Balance Rehabilitation Purposes. Lecture Notes in Computer Science, 2014, , 363-374.	1.0	1
87	Recent Advances in Acquisition/Reconstruction Algorithms for Undersampled Magnetic Resonance Imaging. Journal of Biomedical Engineering and Medical Imaging, 2014, 1, .	0.1	1
88	An Affective BCI Driven by Self-induced Emotions for People with Severe Neurological Disorders. Lecture Notes in Computer Science, 2017, , 155-162.	1.0	1
89	A Web Application for Characterizing Spontaneous Emotions Using Long EEG Recording Sessions. Intelligent Systems Reference Library, 2019, , 185-202.	1.0	1
90	Integration of a BCI with a Hand Tracking System and a Motorized Robotic Arm to Improve Decoding of Brain Signals Related to Hand and Finger Movements. Lecture Notes in Computer Science, 2021, , 305-315.	1.0	1

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91	A general algorithm for magnetic resonance imaging simulation: a versatile tool to collect information about imaging artefacts and new acquisition techniques. <i>Studies in Health Technology and Informatics</i> , 2002, 90, 13-7.	0.2	1
92	Magnetic Resonance Perfusion-Weighted Imaging in Multiple Sclerosis. <i>The Neuroradiology Journal</i> , 2003, 16, 1058-1060.	0.1	0
93	Differente vascolarizzazione delle placche di SM in rapporto allo stato biologico valutata mediante RM perfusionale. <i>The Neuroradiology Journal</i> , 2003, 16, 278-279.	0.1	0
94	A Segmentation Algorithm for X-ray 3D Angiography and Vessel Catheterization. , 2008, , .		0
95	Characterisation of a coding/reconstruction algorithm on MRI simulated noisy data. , 2009, , .		0
96	Forces Calculation Module for the Leap-Based Virtual Glove. , 2018, , .		0
97	Characterization of a Virtual Glove for Hand Rehabilitation Based on Orthogonal LEAP Controllers. <i>Lecture Notes in Computer Science</i> , 2018, , 190-203.	1.0	0
98	Intelligent Multi-Agent Based Information Management Methods to Direct Complex Industrial Systems. <i>Intelligent Information Management</i> , 2012, 04, 338-347.	0.3	0
99	3D modelling to support dental surgery. , 2013, , 1-6.		0
100	A Virtual System for Balance Control Assessment at Home. <i>Communications in Computer and Information Science</i> , 2017, , 12-25.	0.4	0
101	A preliminary structured database for Multimodal Measurements and Elicitations of EMOtions: M2E2MO. <i>Neuropsychological Trends (discontinued)</i> , 2019, , 7-22.	0.4	0
102	Ethical issues deriving from the delayed adoption of artificial intelligence in medical imaging. <i>AI and Ethics</i> , 0, , 1.	4.6	0