

# 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	Gender Differences in Osteoporosis: A Single-Center Observational Study. World Journal of Men's Health, 2021, 39, 750.	1.7	40
2	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
3	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
4	Local Contrast Normalization to Improve Preprocessing in MRI of the Brain. Lecture Notes in Computer Science, 2021, , 255-266.	1.0	3
5	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
6	A light CNN for detecting COVID-19 from CT scans of the chest. Pattern Recognition Letters, 2020, 140, 95-100.	2.6	207
7	Chemosensory Event-Related Potentials and Power Spectrum Could Be a Possible Biomarker in 3M Syndrome Infants?. Brain Sciences, 2020, 10, 201.	1.1	3
8	Emotion Recognition for Human-Robot Interaction: Recent Advances and Future Perspectives. Frontiers in Robotics and AI, 2020, 7, 532279.	2.0	88
9	Guidelines for Effective Automatic Multiple Sclerosis Lesion Segmentation by Magnetic Resonance Imaging. , 2020, , .		6
10	Self-induced emotions as alternative paradigm for driving brain-computer interfaces. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2019, 7, 512-519.	1.3	3
11	Automatic Framework for Multiple Sclerosis Follow-up by Magnetic Resonance Imaging for Reducing Contrast Agents. Lecture Notes in Computer Science, 2019, , 367-378.	1.0	5
12	A Web Application for Characterizing Spontaneous Emotions Using Long EEG Recording Sessions. Intelligent Systems Reference Library, 2019, , 185-202.	1.0	1
13	A preliminary structured database for Multimodal Measurements and Elicitations of EMOTions: M2E2MO. Neuropsychological Trends (discontinued), 2019, , 7-22.	0.4	0
14	A Brain Computer Interface by EEG Signals from Self-induced Emotions. Lecture Notes in Computational Vision and Biomechanics, 2018, , 713-721.	0.5	4
15	Forces Calculation Module for the Leap-Based Virtual Glove. , 2018, , .		0
16	Hand movement parameters calculated by the LEAP based Virtual Glove. , 2018, , .		3
17	BCI driven by self-induced emotions: a multi-class study. , 2018, , .		1
18	Characterization of a Virtual Glove for Hand Rehabilitation Based on Orthogonal LEAP Controllers. Lecture Notes in Computer Science, 2018, , 190-203.	1.0	0

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19	Towards EEG-based BCI driven by emotions for addressing BCI-Illiteracy: a meta-analytic review. Behaviour and Information Technology, 2018, 37, 855-871.	2.5	21
20	Measurements by A LEAP-Based Virtual Glove for the Hand Rehabilitation. Sensors, 2018, 18, 834.	2.1	25
21	Combinatorial optimisation in radiotherapy treatment planning. AIMS Medical Science, 2018, 5, 204-223.	0.2	4
22	Design of a Classification Strategy for Light Microscopy Images of the Human Liver. Lecture Notes in Computer Science, 2017, , 626-636.	1.0	1
23	A Virtual Glove System for the Hand Rehabilitation based on Two Orthogonal LEAP Motion Controllers. , 2017, , .		15
24	A Virtual System for Balance Control Assessment at Home. Communications in Computer and Information Science, 2017, , 12-25.	0.4	0
25	Iterative Adaptive Sparse Sampling Method for Magnetic Resonance Imaging. , 2017, , .		2
26	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
27	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
28	Nitric Oxide Chemical Donor Affects the Early Phases of In Vitro Wound Healing Process. Journal of Cellular Physiology, 2016, 231, 2185-2195.	2.0	17
29	A novel semi-immersive virtual reality visuo-motor task activates ventrolateral prefrontal cortex: a functional near-infrared spectroscopy study. Journal of Neural Engineering, 2016, 13, 036002.	1.8	20
30	A Classification Algorithm for Electroencephalography Signals by Self-Induced Emotional Stimuli. IEEE Transactions on Cybernetics, 2016, 46, 3171-3180.	6.2	39
31	A Modular Framework for EEG Web Based Binary Brain Computer Interfaces to Recover Communication Abilities in Impaired People. Journal of Medical Systems, 2016, 40, 34.	2.2	15
32	Classification of Emotional Signals from the DEAP dataset. , 2016, , .		19
33	A virtual system for postural stability assessment based on a TOF camera and a mirror. , 2015, , .		4
34	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
35	Classification strategies for a single-trial binary Brain Computer Interface based on remembering unpleasant odors. , 2015, 2015, 7019-22.		8
36	A virtual ball task driven by forearm movements for neuro-rehabilitation. , 2015, , .		15

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37	Design of a framework for personalised 3D modelling from medical images. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2015, 3, 76-83.	1.3	2
38	EEG-detected olfactory imagery to reveal covert consciousness in minimally conscious state. Brain Injury, 2015, 29, 1729-1735.	0.6	25
39	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
40	A Poll Oriented Classifier for Affective Brain Computer Interfaces. , 2015, , .		5
41	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
42	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
43	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
44	Adaptive Sampling and Non Linear Reconstruction for Cardiac Magnetic Resonance Imaging. Lecture Notes in Computer Science, 2014, , 24-35.	1.0	1
45	Time-of-Flight Camera Based Virtual Reality Interaction for Balance Rehabilitation Purposes. Lecture Notes in Computer Science, 2014, , 363-374.	1.0	1
46	Adaptive Sampling and Reconstruction for Sparse Magnetic Resonance Imaging. Lecture Notes in Computational Vision and Biomechanics, 2014, , 115-130.	0.5	4
47	Recent Advances in Acquisition/Reconstruction Algorithms for Undersampled Magnetic Resonance Imaging. Journal of Biomedical Engineering and Medical Imaging, 2014, 1, .	0.1	1
48	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
49	Overall design and implementation of the virtual glove. Computers in Biology and Medicine, 2013, 43, 1927-1940.	3.9	37
50	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
51	SketchSPORE: A Sketch Based Domain Separation and Recognition System for Interactive Interfaces. Lecture Notes in Computer Science, 2013, , 181-190.	1.0	4
52	Human Body Language Analysis: A Preliminary Study Based on Kinect Skeleton Tracking. Lecture Notes in Computer Science, 2013, , 465-473.	1.0	3
53	3D modelling to support dental surgery. , 2013, , 1-6.		0
54	Intelligent Multi-Agent Based Information Management Methods to Direct Complex Industrial Systems. Intelligent Information Management, 2012, 04, 338-347.	0.3	0

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55	Characterization of a SimMechanics Model for a Virtual Glove Rehabilitation System. Lecture Notes in Computer Science, 2010, , 141-150.	1.0	12
56	Circular Acquisition to Define the Minimal Set of Projections for Optimal MRI Reconstruction. Lecture Notes in Computer Science, 2010, , 254-262.	1.0	2
57	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
58	Review on Patents about Magnetic Localisation Systems for in vivo Catheterizations. Recent Patents on Biomedical Engineering, 2009, 2, 58-64.	0.5	15
59	Characterisation of a coding/reconstruction algorithm on MRI simulated noisy data. , 2009, , .		0
60	An optimized Java based software package for biomedical images and volumes processing. , 2009, , .		3
61	A shape-based segmentation algorithm for X-ray digital subtraction angiography images. Computer Methods and Programs in Biomedicine, 2009, 94, 267-278.	2.6	12
62	Adaptive compression algorithm from projections: Application on medical greyscale images. Computers in Biology and Medicine, 2009, 39, 993-999.	3.9	19
63	A numerical hand model for a virtual glove rehabilitation system. , 2009, , .		6
64	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
65	A novel acquisitionâ€œreconstruction algorithm for surface magnetic resonance imaging. Magnetic Resonance Imaging, 2008, 26, 1303-1309.	1.0	3
66	A Segmentation Algorithm for X-ray 3D Angiography and Vessel Catheterization. , 2008, , .		0
67	A Novel Segmentation Algorithm for Digital Subtraction Angiography Images: First Experimental Results. Lecture Notes in Computer Science, 2008, , 612-623.	1.0	1
68	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
69	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
70	A smart virtual glove for the hand telerehabilitation. Computers in Biology and Medicine, 2007, 37, 1100-1107.	3.9	50
71	Development of an auxiliary system for the execution of vascular catheter interventions with a reduced radiological risk; system description and first experimental results. Computer Methods and Programs in Biomedicine, 2007, 88, 144-151.	2.6	5
72	Versatile coil design and positioning of transverse-field RF surface coils for clinical 1.5-T MRI applications. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2005, 18, 69-75.	1.1	17

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73	A novel algorithm for the reduction of undersampling artefacts in magnetic resonance images. <i>Magnetic Resonance Imaging</i> , 2004, 22, 1279-1287.	1.0	11
74	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
75	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
76	Magnetic Resonance Perfusion-Weighted Imaging in Multiple Sclerosis. <i>The Neuroradiology Journal</i> , 2003, 16, 1058-1060.	0.1	0
77	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
78	First imaging results obtained with a multimodal apparatus combining low-field (35.7 mT) MRI and pulsed EPRI. <i>Physics in Medicine and Biology</i> , 2002, 47, N127-N132.	1.6	9
79	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
80	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
81	Automatic optimization strategy for the design of circular multipolar magnets. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 313-318.	1.3	5
82	A composite resonator for simultaneous NMR and EPR imaging experiments. <i>Measurement Science and Technology</i> , 2001, 12, 1325-1329.	1.4	5
83	k <sub>t</sub> -Space Adaptive Acquisition Technique for Magnetic Resonance Imaging from Projections. <i>Journal of Magnetic Resonance</i> , 2000, 143, 197-207.	1.2	14
84	EPR imaging from projections: errors due to misalignment of projection centres and their rectification by a novel acquisition modality. <i>Physics in Medicine and Biology</i> , 2000, 45, 3135-3142.	1.6	1
85	Compact low field magnetic resonance imaging magnet: Design and optimization. <i>Review of Scientific Instruments</i> , 2000, 71, 1534-1538.	0.6	12
86	Pulsed EPR imaging: image reconstruction using selective acquisition sequences. <i>Physics in Medicine and Biology</i> , 1999, 44, N137-N144.	1.6	7
87	A Radiofrequency (220-MHz) Fourier Transform EPR Spectrometer. <i>Journal of Magnetic Resonance</i> , 1998, 130, 272-280.	1.2	35
88	A Submicrosecond Resonator and Receiver System for Pulsed Magnetic Resonance with Large Samples. <i>Journal of Magnetic Resonance</i> , 1998, 132, 162-166.	1.2	27
89	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
90	pH-sensitive imaging by low-frequency EPR: a model study for biological applications. <i>Physics in Medicine and Biology</i> , 1998, 43, 1921-1930.	1.6	43

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91	A novel, cylindrical, transverse gradient coil design for magnetic resonance imaging of large samples. Measurement Science and Technology, 1998, 9, 1663-1671.	1.4	3
92	Two-dimensional 220 MHz Fourier transform EPR imaging. Physics in Medicine and Biology, 1998, 43, 1845-1850.	1.6	10
93	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
94	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
95	Angular Space-Domain Interpolation for Filtered Back Projection Applied to Regular and Adaptively Measured Projections. Journal of Magnetic Resonance Series B, 1996, 110, 75-79.	1.6	13
96	EPR imaging in biological applications: Towards microtomography. Magnetic Resonance in Chemistry, 1995, 33, S160-S165.	1.1	6
97	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
98	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
99	New experimental modalities of low frequency electron paramagnetic resonance imaging. , 1995, , 69-92.		2
100	Spline-based deconvolution technique in electron paramagnetic resonance imaging. Review of Scientific Instruments, 1994, 65, 58-62.	0.6	8
101	MRI. , 0, , .		11
102	Ethical issues deriving from the delayed adoption of artificial intelligence in medical imaging. AI and Ethics, 0, , 1.	4.6	0