

# Gianluigi Reni

## List of Publications by Year in descending order

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74  
papers

788  
citations

566801

15  
h-index

642321

23  
g-index

75  
all docs

75  
docs citations

75  
times ranked

1135  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Immersive Virtual Reality Platform to Enhance Walking Ability of Children with Acquired Brain Injuries. <i>Methods of Information in Medicine</i> , 2017, 56, 119-126.	0.7	47
2	Wearable Inertial Sensors to Assess Gait during the 6-Minute Walk Test: A Systematic Review. <i>Sensors</i> , 2020, 20, 2660.	2.1	43
3	Minimum Clinically Important Difference of Gross Motor Function and Gait Endurance in Children with Motor Impairment: A Comparison of Distribution-Based Approaches. <i>BioMed Research International</i> , 2020, 2020, 1-9.	0.9	43
4	EEG-based index for engagement level monitoring during sustained attention. , 2015, 2015, 1512-5.		42
5	Investigation of negative BOLD responses in human brain through NIRS technique. A visual stimulation study. <i>NeuroImage</i> , 2015, 108, 410-422.	2.1	37
6	Motherâ€™infant dyadic reparation and individual differences in vagal tone affect 4-month-old infantsâ€™™ social stress regulation. <i>Journal of Experimental Child Psychology</i> , 2015, 140, 158-170.	0.7	34
7	ICA-derived cortical responses indexing rapid multi-feature auditory processing in six-month-old infants. <i>NeuroImage</i> , 2016, 133, 75-87.	2.1	32
8	Effect of Robot-Assisted Gait Training in a Large Population of Children With Motor Impairment Due to Cerebral Palsy or Acquired Brain Injury. <i>Archives of Physical Medicine and Rehabilitation</i> , 2020, 101, 106-112.	0.5	28
9	Stress symptoms and resilience factors in children with neurodevelopmental disabilities and their parents during the COVID-19 pandemic.. <i>Health Psychology</i> , 2021, 40, 428-438.	1.3	28
10	Giok the Alien: An AR-Based Integrated System for the Empowerment of Problem-Solving, Pragmatic, and Social Skills in Pre-School Children. <i>Sensors</i> , 2018, 18, 2368.	2.1	23
11	Data from the European registry for patients with McArdle disease and other muscle glycogenoses (EUROMAC). <i>Orphanet Journal of Rare Diseases</i> , 2020, 15, 330.	1.2	23
12	Pediatric Biobanking: A Pilot Qualitative Survey of Practices, Rules, and Researcher Opinions in Ten European Countries. <i>Biopreservation and Biobanking</i> , 2012, 10, 29-36.	0.5	22
13	An Automated Function for Identifying EEG Independent Components Representing Bilateral Source Activity. <i>IFMBE Proceedings</i> , 2016, , 105-109.	0.2	22
14	Reach and throw movement analysis with support vector machines in early diagnosis of autism. , 2009, 2009, 2555-8.		21
15	Analysis of the dynamical behaviour of the EEG rhythms during a test of sustained attention. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 1298-301.	0.5	20
16	Vagal tone as a biomarker of longâ€™term memory for a stressful social event at 4 months. <i>Developmental Psychobiology</i> , 2014, 56, 1564-1574.	0.9	18
17	EEG indices correlate with sustained attention performance in patients affected by diffuse axonal injury. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 991-1001.	1.6	18
18	Investigation of the electrophysiological correlates of negative BOLD response during intermittent photic stimulation: An EEG-fMRI study. <i>Human Brain Mapping</i> , 2016, 37, 2247-2262.	1.9	16

#	ARTICLE	IF	CITATIONS
19	Virtual Reality Social Prediction Improvement and Rehabilitation Intensive Training (VR-SPIRIT) for paediatric patients with congenital cerebellar diseases: study protocol of a randomised controlled trial. <i>Trials</i> , 2020, 21, 82.	0.7	16
20	Multimodal analysis of a sustained attention protocol: Continuous Performance Test assessed with Near Infrared Spectroscopy and EEG. , 2006, 2006, 1040-3.		15
21	Removal of Pulse Artefact from EEG Data Recorded in MR Environment at 3T. Setting of ICA Parameters for Marking Artefactual Components: Application to Resting-State Data. <i>PLoS ONE</i> , 2014, 9, e112147.	1.1	15
22	Semi-Immersive Virtual Reality as a Tool to Improve Cognitive and Social Abilities in Preschool Children. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2948.	1.3	15
23	Activation of the prefrontal cortex during a visual <i>n</i> -back working memory task with varying memory load: A Near Infrared Spectroscopy Study. , 2008, 2008, 4024-7.		14
24	Infant's emotional variability associated to interactive stressful situation: A novel analysis approach with Sample Entropy and Lempel-Ziv Complexity. , 2010, 33, 346-356.		14
25	Exploring the learnability and usability of a near field communication-based application for semantic enrichment in children with language disorders. <i>Assistive Technology</i> , 2018, 30, 39-50.	1.2	13
26	Combined Behavioral and EEG Power Analysis in DAI Improve Accuracy in the Assessment of Sustained Attention Deficit. <i>Annals of Biomedical Engineering</i> , 2008, 36, 1216-1227.	1.3	12
27	Exploring the EEG mu rhythm associated with observation and execution of a goal-directed action in 14-month-old preterm infants. <i>Scientific Reports</i> , 2019, 9, 8975.	1.6	12
28	Greater brain response to emotional expressions of their own children in mothers of preterm infants: an fMRI study. <i>Journal of Perinatology</i> , 2017, 37, 716-722.	0.9	11
29	A wearable device for a fully automated in-hospital staff and patient identification. , 2004, 2004, 3278-81.		10
30	Quantitative Evaluation of Performance during Robot-assisted Treatment. <i>Methods of Information in Medicine</i> , 2016, 55, 84-88.	0.7	10
31	Motor Improvement in Adolescents Affected by Ataxia Secondary to Acquired Brain Injury: A Pilot Study. <i>BioMed Research International</i> , 2019, 2019, 1-8.	0.9	9
32	EEG Effective Source Projections Are More Bilaterally Symmetric in Infants Than in Adults. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 82.	1.0	9
33	A novel, low cost, wearable contact-based device for breathing frequency monitoring. , 2017, 2017, 2402-2405.		8
34	Single-sweep analysis using an autoregressive with exogenous input (ARX) model. <i>Documenta Ophthalmologica</i> , 1994, 86, 95-104.	1.0	6
35	Gait rehabilitation with a high tech platform based on virtual reality conveys improvements in walking ability of children suffering from acquired brain injury. , 2015, 2015, 7406-9.		6
36	Mother-Infant Interaction Kinect Analysis (MIKA): An automatic kinematic-based methodology for the investigation of interpersonal distance during early exchanges. , 2021, 63, 101567.		6

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37	A set of tools for building postgresQL distributed databases in biomedical environment. , 0, , .		4
38	Combining Near Infrared Spectroscopy and Functional MRI during Continuous Performance Test in Healthy Subjects. , 2006, 2006, 1944-7.		4
39	Immersive virtual reality platform for cerebral palsy rehabilitation. , 2016, , .		4
40	Chief medical officer actions on information security in an Italian rehabilitation centre. International Journal of Medical Informatics, 2004, 73, 271-279.	1.6	3
41	Active monitoring insole: A wearable device for monitoring foot load distribution in home-care context. , 2008, 2008, 4447-50.		3
42	Coupling of fMRI and NIRS measurements in the study of negative BOLD response to intermittent photic stimulation. , 2013, 2013, 1378-81.		3
43	An ecological evaluation of the metabolic benefits due to robot-assisted gait training. , 2015, 2015, 3590-3.		3
44	Learning Probabilistic Features from EMG Data for Predicting Knee Abnormalities. IFMBE Proceedings, 2016, , 668-672.	0.2	3
45	Giok. , 2016, , .		3
46	Current and Future Manufacturing of Chest Orthoses, Considering the Case of Osteogenesis Imperfecta. , 2018, , .		3
47	Optimal Biomechanical Performance in Upper-Limb Gestures Depends on Velocity and Carried Load. Biology, 2022, 11, 391.	1.3	3
48	Event-related potentials from closed head injury patients in a visual short-term memory task. International Journal of Psychophysiology, 1997, 25, 48-49.	0.5	2
49	Integrating Telemonitoring with Clinical Information Systems: a Case Study. , 2005, 2006, 573-6.		2
50	Entropy analysis on EEG signal in a case study of focal myoclonus. , 2008, 2008, 4724-7.		2
51	Quantitative evaluation protocol for upper limb motor coordination analysis in patients with ataxia. , 2010, 2010, 6633-6.		2
52	A new device for the care of Congenital Central Hypoventilation Syndrome patients during sleep. , 2013, 2013, 2445-8.		2
53	An Assistive Device for Congenital Central Hypoventilation Syndrome Outpatients During Sleep. Annals of Biomedical Engineering, 2014, 42, 2106-2116.	1.3	2
54	The Colibri project: A multicenter shared database of magnetic resonance images about rare neurological diseases. , 2014, , .		2

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55	ERP and adaptive autoregressive identification with spectral power decomposition to study rapid auditory processing in infants. , 2014, 2014, 4591-4.		2
56	A New Quantitative Performance Parameter for Monitoring Robotics Rehabilitation Treatment: Technical Guidelines. Communications in Computer and Information Science, 2015, , 45-54.	0.4	2
57	A Comparative Study Among Constraint, Robot-Aided and Standard Therapies in Upper Limb Rehabilitation of Children with Acquired Brain Injury. IFMBE Proceedings, 2016, , 673-678.	0.2	2
58	Assessing stress variations in children during the strange situation procedure: comparison of three widely used respiratory sinus arrhythmia estimation methods. Physiological Measurement, 2021, 42, 085007.	1.2	2
59	NFC-based application with educational purposes. , 2014, , .		2
60	A new quantitative performance parameter for monitoring robotics rehabilitation treatment. , 2014, , .		2
61	Development and Preliminary Testing of a System for the Multimodal Analysis of Gait Training in a Virtual Reality Environment. Electronics (Switzerland), 2021, 10, 2838.	1.8	2
62	TANCLICO: Tools for the Analysis of Inter-departmental Clinical Communications. Methods of Information in Medicine, 2000, 39, 44-49.	0.7	1
63	Improving walking ability of children with acquired brain injuries by means of an immersive virtual reality platform. , 2015, , .		1
64	The Effect of Baseline on Toddler Event-Related Mu-Rhythm Modulation. Brain Sciences, 2021, 11, 1159.	1.1	1
65	A Virtual Design Process to Produce Scoliosis Braces by Additive Manufacturing. Lecture Notes in Mechanical Engineering, 2020, , 860-870.	0.3	1
66	Respiratory Sinus Arrhythmia (RSA) stress response in preschool age varies by serotonin transporter polymorphism (5-HTTLPR): A preliminary report. Journal of Experimental Child Psychology, 2022, 219, 105413.	0.7	1
67	A Computer Assisted Rehabilitation Experience In Neuropsychologically Disabled Children. , 0, , .		0
68	Event-related potentials (ERPs) recorded from mentally retarded children in a short-memory retrieval task. International Journal of Psychophysiology, 1993, 14, 138.	0.5	0
69	A decision trees application: dimensional reduction of the Touwen's neurological protocol. , 0, , .		0
70	A New Device for Assessing Subjective Haptic Vertical. , 2006, 2006, 6076-9.		0
71	Design of a 3D surface scanner prototype suitable for MR. , 2010, 2010, 5787-90.		0
72	A collaborative environment for shared classification of neuroimages: The experience of the Colibri project. , 2015, 2015, 4306-9.		0

#	ARTICLE	IF	CITATIONS
73	A tapping device for recording and quantitative characterization of rhythmic/auditory sequences. , 2017, 2017, 1250-1253.		0
74	Impact of a NFC-Based Application with Educational Purposes on Children Affected by Language Disorders. Communications in Computer and Information Science, 2015, , 285-293.	0.4	0