Gianluigi Reni

List of Publications by Year
in descending order

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	Optimal Biomechanical Performance in Upper-Limb Gestures Depends on Velocity and Carried Load. Biology, 2022, 11, 391.	1.3	3
2	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
3	Mother-Infant Interaction Kinect Analysis (MIIKA): An automatic kinematic-based methodology for the investigation of interpersonal distance during early exchanges. , 2021, 63, 101567.		6
4	Stress symptoms and resilience factors in children with neurodevelopmental disabilities and their parents during the COVID-19 pandemic.. Health Psychology, 2021, 40, 428-438.	1.3	28
5	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
6	The Effect of Baseline on Toddler Event-Related Mu-Rhythm Modulation. Brain Sciences, 2021, 11, 1159.	1.1	1
7	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
8	Effect of Robot-Assisted Gait Training in a Large Population of Children With Motor Impairment Due to Cerebral Palsy or Acquired Brain Injury. Archives of Physical Medicine and Rehabilitation, 2020, 101, 106-112.	0.5	28
9	Data from the European registry for patients with McArdle disease and other muscle glycogenoses (EUROMAC). Orphanet Journal of Rare Diseases, 2020, 15, 330.	1.2	23
10	Wearable Inertial Sensors to Assess Gait during the 6-Minute Walk Test: A Systematic Review. Sensors, 2020, 20, 2660.	2.1	43
11	Minimum Clinically Important Difference of Gross Motor Function and Gait Endurance in Children with Motor Impairment: A Comparison of Distribution-Based Approaches. BioMed Research International, 2020, 2020, 1-9.	0.9	43
12	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. Trials, 2020, 21, 82.	0.7	16
13	Semi-Immersive Virtual Reality as a Tool to Improve Cognitive and Social Abilities in Preschool Children. Applied Sciences (Switzerland), 2020, 10, 2948.	1.3	15
14	EEG Effective Source Projections Are More Bilaterally Symmetric in Infants Than in Adults. Frontiers in Human Neuroscience, 2020, 14, 82.	1.0	9
15	A Virtual Design Process to Produce Scoliosis Braces by Additive Manufacturing. Lecture Notes in Mechanical Engineering, 2020, , 860-870.	0.3	1
16	Exploring the EEG mu rhythm associated with observation and execution of a goal-directed action in 14-month-old preterm infants. Scientific Reports, 2019, 9, 8975.	1.6	12
17	Motor Improvement in Adolescents Affected by Ataxia Secondary to Acquired Brain Injury: A Pilot Study. BioMed Research International, 2019, 2019, 1-8.	0.9	9
18	Exploring the learnability and usability of a near field communication-based application for semantic enrichment in children with language disorders. Assistive Technology, 2018, 30, 39-50.	1.2	13

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19	EEG indices correlate with sustained attention performance in patients affected by diffuse axonal injury. Medical and Biological Engineering and Computing, 2018, 56, 991-1001.	1.6	18
20	Current and Future Manufacturing of Chest Orthoses, Considering the Case of Osteogenesis Imperfecta. , 2018, , .		3
21	Giok the Alien: An AR-Based Integrated System for the Empowerment of Problem-Solving, Pragmatic, and Social Skills in Pre-School Children. Sensors, 2018, 18, 2368.	2.1	23
22	Greater brain response to emotional expressions of their own children in mothers of preterm infants: an fMRI study. Journal of Perinatology, 2017, 37, 716-722.	0.9	11
23	A tapping device for recording and quantitative characterization of rhythmic/auditory sequences. , 2017, 2017, 1250-1253.		0
24	A novel, low cost, wearable contact-based device for breathing frequency monitoring. , 2017, 2017, 2402-2405.		8
25	An Immersive Virtual Reality Platform to Enhance Walking Ability of Children with Acquired Brain Injuries. Methods of Information in Medicine, 2017, 56, 119-126.	0.7	47
26	Quantitative Evaluation of Performance during Robot-assisted Treatment. Methods of Information in Medicine, 2016, 55, 84-88.	0.7	10
27	Learning Probabilistic Features from EMG Data for Predicting Knee Abnormalities. IFMBE Proceedings, 2016, , 668-672.	0.2	3
28	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
29	An Automated Function for Identifying EEG Independent Components Representing Bilateral Source Activity. IFMBE Proceedings, 2016, , 105-109.	0.2	22
30	Giok. , 2016, , .		3
31	Immersive virtual reality platform for cerebral palsy rehabilitation. , 2016, , .		4
32	Investigation of the electrophysiological correlates of negative BOLD response during intermittent photic stimulation: An EEG-fMRI study. Human Brain Mapping, 2016, 37, 2247-2262.	1.9	16
33	ICA-derived cortical responses indexing rapid multi-feature auditory processing in six-month-old infants. NeuroImage, 2016, 133, 75-87.	2.1	32
34	A New Quantitative Performance Parameter for Monitoring Robotics Rehabilitation Treatment: Technical Guidelines. Communications in Computer and Information Science, 2015, , 45-54.	0.4	2
35	Improving walking ability of children with acquired brain injuries by means of an immersive virtual reality platform. , 2015, , .		1
36	A collaborative environment for shared classification of neuroimages: The experience of the Colibri project. , 2015, 2015, 4306-9.		0

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37	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
38	An ecological evaluation of the metabolic benefits due to robot-assisted gait training. , 2015, 2015, 3590-3.		3
39	EEG-based index for engagement level monitoring during sustained attention. , 2015, 2015, 1512-5.		42
40	Investigation of negative BOLD responses in human brain through NIRS technique. A visual stimulation study. NeuroImage, 2015, 108, 410-422.	2.1	37
41	Mother–infant dyadic reparation and individual differences in vagal tone affect 4-month-old infants' social stress regulation. Journal of Experimental Child Psychology, 2015, 140, 158-170.	0.7	34
42	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
43	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. PLoS ONE, 2014, 9, e112147.	1.1	15
44	An Assistive Device for Congenital Central Hypoventilation Syndrome Outpatients During Sleep. Annals of Biomedical Engineering, 2014, 42, 2106-2116.	1.3	2
45	The Colibri project: A multicenter shared database of magnetic resonance images about rare neurological diseases. , 2014, , .		2
46	Vagal tone as a biomarker of long–term memory for a stressful social event at 4 months. Developmental Psychobiology, 2014, 56, 1564-1574.	0.9	18
47	ERP and adaptive autoregressive identification with spectral power decomposition to study rapid auditory processing in infants. , 2014, 2014, 4591-4.		2
48	NFC-based application with educational purposes. , 2014, , .		2
49	A new quantitative performance parameter for monitoring robotics rehabilitation treatment. , 2014, , .		2
50	Coupling of fMRI and NIRS measurements in the study of negative BOLD response to intermittent photic stimulation. , 2013, 2013, 1378-81.		3
51	A new device for the care of Congenital Central Hypoventilation Syndrome patients during sleep. , 2013, 2013, 2445-8.		2
52	Pediatric Biobanking: A Pilot Qualitative Survey of Practices, Rules, and Researcher Opinions in Ten European Countries. Biopreservation and Biobanking, 2012, 10, 29-36.	0.5	22
53	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
54	Quantitative evaluation protocol for upper limb motor coordination analysis in patients with ataxia. , 2010, 2010, 6633-6.		2

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55	Design of a 3D surface scanner prototype suitable for MR. , 2010, 2010, 5787-90.		0
56	Reach and throw movement analysis with support vector machines in early diagnosis of autism. , 2009, 2009, 2555-8.		21
57	Combined Behavioral and EEG Power Analysis in DAI Improve Accuracy in the Assessment of Sustained Attention Deficit. Annals of Biomedical Engineering, 2008, 36, 1216-1227.	1.3	12
58	Activation of the prefrontal cortex during a visual n-back working memory task with varying memory load: A Near Infrared Spectroscopy Study. , 2008, 2008, 4024-7.		14
59	Active monitoring insole: A wearable device for monitoring foot load distribution in home-care context. , 2008, 2008, 4447-50.		3
60	Entropy analysis on EEG signal in a case study of focal myoclonus. , 2008, 2008, 4724-7.		2
61	Analysis of the dynamical behaviour of the EEG rhythms during a test of sustained attention. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1298-301.	0.5	20
62	Combining Near Infrared Spectroscopy and Functional MRI during Continuous Performance Test in Healthy Subjects. , 2006, 2006, 1944-7.		4
63	A New Device for Assessing Subjective Haptic Vertical. , 2006, 2006, 6076-9.		0
64	Multimodal analysis of a sustained attention protocol: Continuous Performance Test assessed with Near Infrared Spectroscopy and EEG. , 2006, 2006, 1040-3.		15
65	Integrating Telemonitoring with Clinical Information Systems: a Case Study. , 2005, 2006, 573-6.		2
66	Chief medical officer actions on information security in an Italian rehabilitation centre. International Journal of Medical Informatics, 2004, 73, 271-279.	1.6	3
67	A wearable device for a fully automated in-hospital staff and patient identification. , 2004, 2004, 3278-81.		10
68	TANCLICO: Tools for the Analysis of Inter-departmental Clinical Communications. Methods of Information in Medicine, 2000, 39, 44-49.	0.7	1
69	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
70	Single-sweep analysis using an autoregressive with exogenous input (ARX) model. Documenta Ophthalmologica, 1994, 86, 95-104.	1.0	6
71	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
72	A Computer Assisted Rehabilitation Experience In Neuropsychologically Disabled Children. , 0, , .		0

#	ARTICLE	IF	CITATIONS
73	A decision trees application: dimensional reduction of the Touwen's neurological protocol. , 0, , .		0
74	A set of tools for building postgreSQL distributed databases in biomedical environment. , 0, , .		4