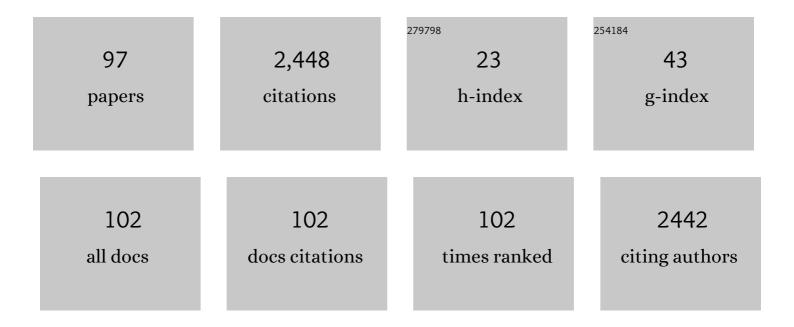
Sergi Bermúdez i Badia

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9313105/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	A virtual reality bus ride as an ecologically valid assessment of balance: a feasibility study. Virtual Reality, 2023, 27, 109-117.	6.1	5
2	Efficacy of adaptive cognitive training through desktop virtual reality and paper-and-pencil in the treatment of mental and behavioral disorders. Virtual Reality, 2023, 27, 291-306.	6.1	7
3	Impact of age, VR, immersion, and spatial resolution on classifier performance for a MI-based BCI. Brain-Computer Interfaces, 2022, 9, 169-178.	1.8	6
4	Virtual Reality for Safe Testing and Development in Collaborative Robotics: Challenges and Perspectives. Electronics (Switzerland), 2022, 11, 1726.	3.1	10
5	Automatic Cognitive Fatigue Detection Using Wearable fNIRS and Machine Learning. Sensors, 2022, 22, 4010.	3.8	6
6	Effects of prolonged multidimensional fitness training with exergames on the physical exertion levels of older adults. Visual Computer, 2021, 37, 19-30.	3.5	9
7	Finding the Optimal Time Window for Increased Classification Accuracy during Motor Imagery. , 2021, , .		4
8	Efficacy of Augmented Reality-based Virtual Hiking in Cardiorespiratory Endurance: A Pilot Study. , 2021, , .		1
9	The Effect of Neurofeedback Training inÂCAVE-VR for Enhancing Working Memory. Human-computer Interaction Series, 2021, , 11-45.	0.6	0
10	The use of game modes to promote engagement and social involvement in multi-user serious games: a within-person randomized trial with stroke survivors. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 62.	4.6	16
11	Clinical Effects of Immersive Multimodal BCI-VR Training after Bilateral Neuromodulation with rTMS on Upper Limb Motor Recovery after Stroke. A Study Protocol for a Randomized Controlled Trial. Medicina (Lithuania), 2021, 57, 736.	2.0	9
12	Evaluation of a Low-Cost Virtual Reality Surround-Screen Projection System. IEEE Transactions on Visualization and Computer Graphics, 2021, PP, 1-1.	4.4	4
13	Emotional Reactions to Music in Dementia Patients and Healthy Controls: Differential Responding Depends on the Mechanism. Music & Science, 2021, 4, 205920432110101.	1.0	5
14	Diving into a Decade of Games for Health Research: A Systematic Review. Advances in Intelligent Systems and Computing, 2021, , 520-528.	0.6	1
15	The Benefits of Custom Exergames for Fitness, Balance, and Health-Related Quality of Life: A Randomized Controlled Trial with Community-Dwelling Older Adults. Games for Health Journal, 2021, 10, 245-253.	2.0	9
16	A comparison of two personalization and adaptive cognitive rehabilitation approaches: a randomized controlled trial with chronic stroke patients. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 78.	4.6	51
17	User Experience of Interactive Technologies for People With Dementia: Comparative Observational Study. JMIR Serious Games, 2020, 8, e17565.	3.1	12
18	To Binge or not to Binge: Viewers' Moods and Behaviors During the Consumption of Subscribed Video Streaming. Lecture Notes in Computer Science, 2020, , 369-381.	1.3	3

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19	Lessons Learned from Gamifying Functional Fitness Training Through Human-Centered Design Methods in Older Adults. Games for Health Journal, 2019, 8, 387-406.	2.0	24
20	Efficacy and Brain Imaging Correlates of an Immersive Motor Imagery BCI-Driven VR System for Upper Limb Motor Rehabilitation: A Clinical Case Report. Frontiers in Human Neuroscience, 2019, 13, 244.	2.0	99
21	Reh@City v2.0: a comprehensive virtual reality cognitive training system based on personalized and adaptive simulations of activities of daily living. , 2019, , .		5
22	Comparing adaptive cognitive training in virtual reality and paper-pencil in a sample of stroke patients. , 2019, , .		7
23	A usability study with healthcare professionals of a customizable framework for reminiscence and music based cognitive activities for people with dementia. , 2019, , .		7
24	Toward Emotionally Adaptive Virtual Reality for Mental Health Applications. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1877-1887.	6.3	37
25	Development and Assessment of a Self-paced BCI-VR Paradigm Using Multimodal Stimulation and Adaptive Performance. Lecture Notes in Computer Science, 2019, , 1-22.	1.3	2
26	From Body Tracking Interaction in Floor Projection Displays to Elderly Cardiorespiratory Training Through Exergaming. Lecture Notes in Computer Science, 2019, , 58-77.	1.3	0
27	PhysioLab - a multivariate physiological computing toolbox for ECG, EMG and EDA signals: a case of study of cardiorespiratory fitness assessment in the elderly population. Multimedia Tools and Applications, 2018, 77, 11521-11546.	3.9	17
28	Capturing Expert Knowledge for the Personalization of Cognitive Rehabilitation: Study Combining Computational Modeling and a Participatory Design Strategy. JMIR Rehabilitation and Assistive Technologies, 2018, 5, e10714.	2.2	9
29	Measured and Perceived Physical Responses in Multidimensional Fitness Training through Exergames in Older Adults. , 2018, , .		4
30	Combined Cognitive-Motor Rehabilitation in Virtual Reality Improves Motor Outcomes in Chronic Stroke – A Pilot Study. Frontiers in Psychology, 2018, 9, 854.	2.1	63
31	Body schema plasticity after stroke: Subjective and neurophysiological correlates of the rubber hand illusion. Neuropsychologia, 2017, 96, 61-69.	1.6	37
32	Correlates of health-related quality of life in young-old and old–old community-dwelling older adults. Quality of Life Research, 2017, 26, 1561-1569.	3.1	47
33	EEG correlates of video game experience and user profile in motor-imagery-based brain–computer interaction. Visual Computer, 2017, 33, 533-546.	3.5	35
34	Virtual reality with customized positive stimuli in a cognitive-motor rehabilitation task. , 2017, , .		9
35	Open Rehab Initiative: Second development iteration. , 2017, , .		1
36	Music-based assistive feedback system for the exploration of virtual environments in individuals with		3

dementia., 2017,,.

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37	The Biocybernetic Loop Engine: An Integrated Tool for Creating Physiologically Adaptive Videogames. , 2017, , .		12
38	Eye Gaze Correlates of Motor Impairment in VR Observation of Motor Actions. Methods of Information in Medicine, 2016, 55, 79-83.	1.2	5
39	A dataset for the automatic assessment of functional senior fitness tests using kinect and physiological sensors. , 2016, , .		6
40	Modulation of Physiological Responses and Activity Levels during Exergame Experiences. , 2016, , .		8
41	Virtual Reality for Sensorimotor Rehabilitation Post Stroke: Design Principles and Evidence. , 2016, , 573-603.		23
42	The impact of positive, negative and neutral stimuli in a virtual reality cognitive-motor rehabilitation task: a pilot study with stroke patients. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 70.	4.6	25
43	Motor priming in virtual reality can augment motor-imagery training efficacy in restorative brain-computer interaction: a within-subject analysis. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 69.	4.6	88
44	Benefits of virtual reality based cognitive rehabilitation through simulated activities of daily living: a randomized controlled trial with stroke patients. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 96.	4.6	193
45	Usability and Cost-effectiveness in Brain-Computer Interaction. , 2016, , .		20
46	NeuRow: An Immersive VR Environment for Motor-Imagery Training with the Use of Brain-Computer Interfaces and Vibrotactile Feedback. , 2016, , .		37
47	Automating senior fitness testing through gesture detection with depth sensors. , 2015, , .		3
48	14. An Integrative Framework for Tailoring Virtual Reality Based Motor Rehabilitation After Stroke. , 2015, , 244-261.		0
49	Optimizing motor imagery neurofeedback through the use of multimodal immersive virtual reality and motor priming. , 2015, , .		15
50	Development and evaluation of a web-based cognitive task generator for personalized cognitive training. , 2015, , .		4
51	Visualization of multivariate physiological data for cardiorespiratory fitness assessment through ECG (R-peak) analysis. , 2015, 2015, 390-3.		2
52	Applications and Issues for Physiological Computing Systems: An Introduction to the Special Issue. Interacting With Computers, 2015, 27, 489-491.	1.5	0
53	Optimizing Performance of Non-Expert Users in Brain-Computer Interaction by Means of an Adaptive Performance Engine. Lecture Notes in Computer Science, 2015, , 202-211.	1.3	4
54	Personalization of Assistance and Knowledge of Performance Feedback on a Hybrid Mobile and Myo-electric Robotic System for Motor Rehabilitation After Stroke. Communications in Computer and Information Science, 2015, , 91-103.	0.5	0

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55	Combining virtual reality and a myoelectric limb orthosis to restore active movement after stroke: a pilot study. International Journal on Disability and Human Development, 2014, 13, .	0.2	1
56	RehabCity. , 2014, , .		28
57	AdaptNow – A Revamped Look for the Web: An Online Web Enhancement Tool for the Elderly. Lecture Notes in Computer Science, 2014, , 113-120.	1.3	3
58	An Assistive Mobile Platform for Delivering Knowledge of Performance Feedback. , 2014, , .		2
59	Eye Gaze Patterns after Stroke: Correlates of a VR Action Execution and Observation Task. , 2014, , .		1
60	A functional magnetic resonance imaging study of visuomotor processing in a virtual realityâ€based paradigm: Rehabilitation Gaming System. European Journal of Neuroscience, 2013, 37, 1441-1447.	2.6	61
61	Supporting collective learning experiences in special education. , 2013, , .		12
62	Using a Hybrid Brain Computer Interface and Virtual Reality System to Monitor and Promote Cortical Reorganization through Motor Activity and Motor Imagery Training. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 174-181.	4.9	90
63	WAYLA., 2013,,.		3
64	RehabNet: A distributed architecture for motor and cognitive neuro-rehabilitation. , 2013, , .		29
65	The Neurorehabilitation Training Toolkit (NTT): A Novel Worldwide Accessible Motor Training Approach for At-Home Rehabilitation after Stroke. Stroke Research and Treatment, 2012, 2012, 1-13.	0.8	11
66	The Combined Impact of Virtual Reality Neurorehabilitation and Its Interfaces on Upper Extremity Functional Recovery in Patients With Chronic Stroke. Stroke, 2012, 43, 2720-2728.	2.0	149
67	Including Social Interaction in Stroke VR-Based Motor Rehabilitation Enhances Performance: A Pilot Study. Presence: Teleoperators and Virtual Environments, 2012, 21, 490-501.	0.6	29
68	A high-throughput behavioral paradigm for Drosophila olfaction - The Flywalk. Scientific Reports, 2012, 2, 361.	3.3	78
69	PASAR: An integrated model of prediction, anticipation, sensation, attention and response for artificial sensorimotor systems. Information Sciences, 2012, 186, 1-19.	6.9	27
70	The effect of social gaming in virtual reality based rehabilitation of stroke patients. , 2011, , .		2
71	Exploring the synergies of a hybrid BCI - VR neurorehabilitation system. , 2011, , .		7
72	Real-Time Position Reconstruction with Hippocampal Place Cells. Frontiers in Neuroscience, 2011, 5, 85.	2.8	35

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73	Virtual reality based rehabilitation speeds up functional recovery of the upper extremities after stroke: A randomized controlled pilot study in the acute phase of stroke using the Rehabilitation Gaming System. Restorative Neurology and Neuroscience, 2011, 29, 287-298.	0.7	201
74	Odour Mapping Under Strong Backgrounds With a Metal Oxide Sensor Array. , 2011, , .		0
75	Neurorehabilitation using the virtual reality based Rehabilitation Gaming System: methodology, design, psychometrics, usability and validation. Journal of NeuroEngineering and Rehabilitation, 2010, 7, 48.	4.6	265
76	The real-world localization and classification of multiple odours using a biologically based neurorobotics approach. , 2010, , .		3
77	The role of neural synchrony and rate in high-dimensional input systems. The Antennal Lobe: A case study. , 2010, , .		2
78	Non-Linear Neuronal Responses as an Emergent Property of Afferent Networks: A Case Study of the Locust Lobula Giant Movement Detector. PLoS Computational Biology, 2010, 6, e1000701.	3.2	27
79	An insect-based method for learning landmark reliability using expectation reinforcement in dynamic environments. , 2010, , .		8
80	Action-Planning and Execution from Multimodal Cues: An Integrated Cognitive Model for Artificial Autonomous Systems. Studies in Computational Intelligence, 2010, , 479-497.	0.9	2
81	Insect-Like mapless navigation based on head direction cells and contextual learning using chemo-visual sensors. , 2009, , .		23
82	The Effects of Explicit and Implicit Interaction on User Experiences in a Mixed Reality Installation: The Synthetic Oracle. Presence: Teleoperators and Virtual Environments, 2009, 18, 277-285.	0.6	11
83	Learning from the Moth: A Comparative Study of Robot-Based Odor Source Localization Strategies. , 2009, , .		3
84	The rehabilitation gaming system: a review. Studies in Health Technology and Informatics, 2009, 145, 65-83.	0.3	27
85	A model for the neuronal substrate of dead reckoning and memory in arthropods: a comparative computational and behavioral study. Theory in Biosciences, 2008, 127, 163-175.	1.4	18
86	Using a Multi-Task Adaptive VR System for Upper Limb Rehabilitation in the Acute Phase of Stroke. , 2008, , .		18
87	Intelligent motor decision: From selective attention to a Bayesian world model. , 2008, , .		5
88	re(PER)curso. , 2008, , .		4
89	A fly-locust based neuronal control system applied to an unmanned aerial vehicle: the invertebrate neuronal principles for course stabilization, altitude control and collision avoidance. International Journal of Robotics Research, 2007, 26, 759-772.	8.5	42
90	A Biologically Based Chemo-Sensing UAV for Humanitarian Demining. International Journal of Advanced Robotic Systems, 2007, 4, 21.	2.1	15

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91	The Rehabilitation Gaming System: a Virtual Reality Based System for the Evaluation and Rehabilitation of Motor Deficits. , 2007, , .		32
92	An artificial moth: Chemical source localization using a robot based neuronal model of moth optomotor anemotactic search. Autonomous Robots, 2006, 20, 197-213.	4.8	110
93	Chemotactic Search in Complex Environments. , 2004, , 181-207.		6
94	A collision avoidance model based on the Lobula giant movement detector (LGMD) neuron of the locust. , 0, , .		19
95	A Biologically Based Flight Control System for a Blimp-based UAV. , 0, , .		12
96	Moth-Like Chemo-Source Localization and Classification on an Indoor Autonomous Robot. , 0, , .		7
97	Humanitarian Demining Using an Insect Based Chemical Unmanned Aerial Vehicle. , 0, , .		2