Vladimir Espartaco Robles-Bykbaev

List of Publications by Year
in descending order

105 papers	308 citations	1306789 7 h-index	1473754 9 g-index
112 all docs	112 docs citations	112 times ranked	185 citing authors

#	Article	IF	Citations
1	SPELTA: An expert system to generate therapy plans for speech and language disorders. Expert Systems With Applications, 2015, 42, 7641-7651.	4.4	17
2	An ontology-based expert system to generate therapy plans for children with disabilities and communication disorders. , 2016, , .		13
3	An intelligent system based on ontologies and ICT tools to support the diagnosis and intervention of children with autism. , 2016, , .		12
4	Robotic assistant for support in speech therapy for children with cerebral palsy. , 2016, , .		11
5	An artificial-vision- and statistical-learning-based method for studying the biodegradation of type I collagen scaffolds in bone regeneration systems. PeerJ, 2019, 7, e7233.	0.9	10
6	A Didactic Transmitter to Support the Communication and Learning Process of Children with Cerebral Palsy. MATEC Web of Conferences, 2016, 42, 05004.	0.1	8
7	ADACOF: una aproximaciÃ³n educativa basada en TIC para el aprendizaje digital de la articulaciÃ³n del cÃ³digo fonÃ©tico en niÃ±os con discapacidad. Perfiles Educativos, 2015, 37, .	0.1	8
8	Automatic Adaptation of Open Educational Resources: An Approach From a Multilevel Methodology Based on Studentsâ€™ Preferences, Educational Special Needs, Artificial Intelligence and Accessibility Metadata. IEEE Access, 2022, 10, 9703-9716.	2.6	8
9	An educational approach to generate new tools for education support of children with disabilities. , 2011, , .		7
10	SPELTRA: A Robotic Assistant for Speech-and-Language Therapy. Lecture Notes in Computer Science, 2015, , 525-534.	1.0	7
11	An educative environment based on ontologies and e-learning for training on design of speech-language therapy plans for children with disabilities and communication disorders. , 2016, , .		7
12	Onto-SPELTRA: A Robotic Assistant Based on Ontologies and Agglomerative Clustering to Support Speech-Language Therapy for Children with Disabilities. Communications in Computer and Information Science, 2017, , 343-357.	0.4	7
13	A Bespoke Social Network for Deaf Women in Ecuador to Access Information on Sexual and Reproductive Health. International Journal of Environmental Research and Public Health, 2019, 16, 3962.	1.2	7
14	Robotic Assistant for the Teaching in Trauma Accidents Prevention in Children of Initial Age. , 2020, , .		7
15	Design, Implementation and Evaluation of a Support System for Educators and Therapists to Rate the Acquisition of Pre-Writing Skills. IEEE Access, 2021, 9, 77920-77929.	2.6	7
16	How Is the Quality of Life of Patients with Cerebral Palsy Improved? Qualitative and Quantitative Evaluation of a Communication and Learning Assistance System Based on ICTs. Advances in Intelligent Systems and Computing, 2018, , 73-81.	0.5	7
17	An approach based on Fourier descriptors and decision trees to perform presumptive diagnosis of esophagitis for educational purposes. , 2015, , .		6
18	A low-cost wearable support system for visually disabled people. , 2016, , .		6

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19	SPELTA-Miner: An expert system based on data mining and multilabel classification to design therapy plans for communication disorders. , 2016, , .		6
20	A proposal based on knowledge modeling and ontologies to support the accessibility evaluation process of learning objects. , 2018, , .		6
21	Robotic Technologies in ADHD Care: Literature Review. IEEE Access, 2022, 10, 608-625.	2.6	6
22	Maturation Assessment System for Speech and Language Therapy based on Multilevel PAM and KNN. Procedia Technology, 2014, 16, 1265-1270.	1.1	5
23	RAMSES : a robotic assistant and a mobile support environment for speech and language therapy. , 2015, , .		5
24	Digital Trainer for the Development of the Fine Motor Ability in Children with Cerebral Palsy. MATEC Web of Conferences, 2016, 68, 20006.	0.1	5
25	A robotic assistant to support the development of communication skills of children with disabilities. , 2016, , .		5
26	A proposal of a virtual robotic assistant and a rule-based expert system to carry out therapeutic exercises with children with Dyslalia. , 2018, , .		5
27	AVATAR: Implementation of a Human-Computer Interface Based on an Intelligent Virtual Agent. , 2019, , .		4
28	Sensorised Low-Cost Pencils for Developing Countries: A Quantitative Analysis of Handwriting Learning Progress in Children with/without Disabilities from a Sustainable Perspective. Sustainability, 2020, 12, 10682.	1.6	4
29	Fuzzy controller for automatic microphone gain control in an autonomous support system for elderly. , 2014, , .		3
30	A Recommender System Based on Data Mining Techniques to Support the Automatic Assignment of Courses to Teachers in Higher Education. , 2017, , .		3
31	Virtual learning environment for children with disabilities: A proposal based on MOODLE and content management with Over The Top (OTT) technology. , 2018, , .		3
32	An interactive educational platform based on data mining and serious games to contribute to preservation and learning of the CaÃ±ari indigenous cultural heritage in Ecuador. , 2018, , .		3
33	e-Pumapunku: An Interactive App to Teach Children the CaÃ±ari and Inca Indigenous Cultures During Guided Museum Visits. , 2018, , .		3
34	Creating an Ontological Networks to Support the Inference of Personality Traits and Facets. , 2018, , .		3
35	Serious game to improve fine motor skills using Leap Motion. , 2018, , .		3
36	A University Administration System to Automatically Assign Courses to Teachers and Support the Design of Timetables Through Mathematical Modeling and Restrictions Analysis. , 2018, , .		3

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37	An educational platform based on expert systems, speech recognition, and ludic activities to support the lexical and semantic development in children from 2 to 3 years. , 2019, , .		3
38	Development of a Hand Rehabilitation Therapy System with Soft Robotic Glove. Advances in Intelligent Systems and Computing, 2020, , 948-958.	0.5	3
39	Assessing Children's Perceptions of Live Interactions With Avatars: Preparations for Use in ASD Therapy in a Multi-Ethnic Context. IEEE Access, 2020, 8, 168456-168469.	2.6	3
40	An Intelligent Ecosystem to Support the Development of Communication Skills in Children with Autism. Advances in Business Information Systems and Analytics Book Series, 2017, , 109-133.	0.3	3
41	An Ecosystem of Intelligent ICT Tools for Speech-Language Therapy Based on a Formal Knowledge Model. Studies in Health Technology and Informatics, 2015, 216, 50-4.	0.2	3
42	Borda-Based Voting Schemes for Semantic Role Labeling. Lecture Notes in Computer Science, 2010, , 189-196.	1.0	2
43	An intelligent ecosystem to support the psychological diagnosis and intervention of children under social vulnerability. , 2015, , .		2
44	CREAMINKA: An Intelligent Ecosystem Based on Ontologies and Artificial Intelligence to Manage Research Processes, Knowledge Generation and Scientific Production in Higher Education. Communications in Computer and Information Science, 2017, , 115-129.	0.4	2
45	Intelligent Nano-Worlds: A New ICT Based Tool for Mental Health Care of Children Living Under Social Vulnerability. Advances in Intelligent Systems and Computing, 2017, , 403-412.	0.5	2
46	YOCASTA: A ludic-interactive system to support the detection of anxiety and lack of concentration in children with disabilities. , 2017, , .		2
47	Recommendation system of authorities and content based on Twitter for language therapy through data mining techniques. , 2018, , .		2
48	An expert system to support the provisioning of staff with disabilities in industry. , 2018, , .		2
49	A Hybrid System to Support the Psychological Intervention for Children With Autism. International Journal of E-Services and Mobile Applications, 2018, 10, 74-100.	0.6	2
50	An interactive system to automatically generate video summaries and perform subtitles synchronization for persons with hearing loss. , 2018, , .		2
51	An intelligent platform to design and develop low-cost assistive technologies and robotic assistants for children with disabilities. , 2018, , .		2
52	An educational support tool based on robotic assistants, mobile apps, and expert systems for children with Down syndrome. , 2018, , .		2
53	An Intelligent System Based on Genetic Algorithms to Generate Study Groups Using Personality Traits and Academic Profiles in Higher Education. , 2018, , .		2
54	An interactive tool based on serious games and fuzzy logic to support the motor development and rehabilitation of children with disabilities. , 2018, , .		2

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55	On Data Protection Regulations, Big Data and Sledgehammers in Higher Education. Applied Sciences (Switzerland), 2019, 9, 3084.	1.3	2
56	e-Ucumari: A multimedia device based on ontologies and embedded systems for pedagogical support of children with multi-disabilities. , 2019, , .		2
57	Ergonomic Assessment and Analysis of Postural Load of Surgeons Performing Laparoscopic Surgeries in Cuenca, Ecuador. Advances in Intelligent Systems and Computing, 2018, , 427-437.	0.5	2
58	Evaluation of an Expert System for the Generation of Speech and Language Therapy Plans. JMIR Medical Informatics, 2016, 4, e23.	1.3	2
59	An Intelligent System to Automatically Generate Video-Summaries for Accessible Learning Objects for People with Hearing Loss. Advances in Intelligent Systems and Computing, 2018, , 113-122.	0.5	2
60	Un sistema experto basado en minerÃa de datos y programaciÃ³n entera lineal para soporte en la asignaciÃ³n de materias y diseÃ±o de horarios en educaciÃ³n superior. Enfoqute, 2018, 9, 102-117.	0.3	2
61	Accessibility Challenges in OER and MOOC: MLR Analysis Considering the Pandemic Years. Sustainability, 2022, 14, 3340.	1.6	2
62	SA<sup>3</sup>M: An interactive robot to provide support for the elderly. , 2014, , .		1
63	A proposal based on color descriptors and local binary patterns histogram as support tool in presumptive diagnosis of hiatus hernia. , 2014, , .		1
64	Data repository of mobile applications for people with disabilities in the area of communication and language using data mining techniques. , 2018, , .		1
65	A Computer Vision Approach Based on the Retinal Nerve Fiber Thickness Analysis to Estimate the Risk of Suffering Glaucoma. , 2018, , .		1
66	A robotic assistant to support the social and cognitive development of children from low-income families. , 2018, , .		1
67	A text filter based multimedia content recommender for children with intellectual disability. , 2018, , .		1
68	An interactive educational tool based on augmented reality, mobile applications and comic strips to teach children the CaÃ±ari and Inca cultures in the Ecuadorian context. , 2018, , .		1
69	An interactive ecosystem based on Borda voting schemes and serious games to support the discovery of aggressiveness and inhibition traits on scholar children. , 2018, , .		1
70	An educational environment based on stuffed toy robots, mobile apps, and expert systems to provide support in the early development of children. , 2019, , .		1
71	An Expert System to Design Intervention Strategies for Children with Disabilities in Multi-Sensory Stimulation Environments. Communications in Computer and Information Science, 2020, , 51-63.	0.4	1
72	AsiRo-Î¼: A Multi-purpose Robotic Assistant for Educational Inclusion of Children with Multiple Disabilities. Lecture Notes in Networks and Systems, 2021, , 199-206.	0.5	1

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73	Motor Rehabilitation of Children with Multiple Disabilities: a Methodological Proposal Based on Robotic Assistants, Simulation and Uncertain Reasoning. , 2021, , .		1
74	Preprocessing the Structural Optimization of the SPELTRA Robotic Assistant by Numerical Simulation Based on Finite Elements. Advances in Intelligent Systems and Computing, 2019, , 116-127.	0.5	1
75	Intelligent tutor system to provide automated support to learning pre-reading concepts for children from 5 to 7. , 2020, , .		1
76	A PROPOSAL OF AN ECOSYSTEM BASED ON INTELLIGENT ICT TOOLS TO SUPPORT THE DIAGNOSIS AND INTERVENTION OF PATIENTS WITH COMMUNICATION DISORDERS. Ingenius: Revista De Ciencia Y TecnologÃa, 2016, , .	0.1	1
77	Preventing Trauma Accidents in Children: An Ecosystem Based on Interactive Ludic Activities for Mobile and Web-Based Environments. Advances in Intelligent Systems and Computing, 2018, , 122-131.	0.5	1
78	Design of an Intelligent System for Prediction and Simulation of Writing in Children with Spasticity. Advances in Intelligent Systems and Computing, 2018, , 559-568.	0.5	1
79	ITaCaS: a serious game and an expert system to support the teaching of sexual-health and hygiene for youth with intellectual disability. , 2020, , .		1
80	NeoPlag: An Ecosystem to Support the Development and Evaluation of New Algorithms to Detect Plagiarism. , 2015, , .		0
81	An intelligent ecosystem to support psychological evaluation and intervention of children under social risk: Towards graphics design validation and new findings. , 2016, , .		0
82	ISLanD: An informatics intelligent system to support the language development of children from 4 to 5 years. , 2017, , .		0
83	Consensus socialization: A contribution to the assessment method center based on the use of a smartpen and the fast fourier transform. , 2018, , .		0
84	An Expert System to Provide Sexual and Reproductive Health Educational Contents for Young Deaf Women. , 2018, , .		0
85	An ontological network to identify accessibility metadata in learning objects: an approach based on Web Content Accessibility Guidelines, schemas, and disabilities analysis. , 2018, , .		0
86	Integration of Data Based on Ontologies for the Generation of a Multimedia Repository of Language and Speech. , 2018, , .		0
87	An expert system based on rules and mobile apps to support the evaluation of auditory function in children from 3 to 6 years. , 2018, , .		0
88	An expert system to recommend contents and guided visits for children: a practical proposal for the Pumapungo Museum of Cuenca, Ecuador. , 2018, , .		0
89	An educational environment based on digital image processing to support the learning process of biomaterials degradation in stem cells. , 2018, , .		0
90	Innovation in the Teaching Practice at University: Some Thoughs and Ideas Applied in Cuenca - Ecuador. , 2018, , .		0

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91	An Intelligent Educative Environment for Drug Administration Practice in Prehospital Trauma Care: A Multidisciplinary Experience Between the Engineering and Medicine Careers. , 2018, , .		0
92	An Ecosystem to Support Cognitive Development in Children Aged 4 to 6, Through Additive Manufacturing and Intelligent Cloud Computing Services. , 2019, , .		0
93	Athetosis Speech and Language Learning Assistant: Case Study. Lecture Notes in Networks and Systems, 2021, , 344-352.	0.5	0
94	Analysis of the Use of Digital Tools as Support in Fine Motor Stimulation Therapy. Lecture Notes in Networks and Systems, 2021, , 544-549.	0.5	0
95	Web accessibility in Ecuador: a new approach to implement policies and creation of the first web observatory. , 2014, , .		0
96	Modelling Domain Knowledge of Speech and Language Therapy with an OWL Ontology and OpenEHR Archetypes. , 2015, , .		0
97	IESAMI: An Intelligent Environment to Support the Academic Monitoring and Inclusion of Students with Disabilities in University. Advances in Intelligent Systems and Computing, 2016, , 97-107.	0.5	0
98	An Intelligent Pen to Assess Anxiety Levels Through Pressure Sensors and Fuzzy Logic. Advances in Intelligent Systems and Computing, 2018, , 64-71.	0.5	0
99	Mathematical Modeling and Ergonomic Study of a Pencil Through Numerical Simulation for Support of the Graphological Presumptive Diagnosis. Advances in Intelligent Systems and Computing, 2018, , 519-528.	0.5	0
100	Semantic Representation of Information by Ontological Networks to Improve Knowledge Management in Higher Education. , 2018, , .		0
101	An Academic System Based on Ontological Networks to Support the Inference of New Knowledge in Micro and Macro Curriculum in Higher Education. Advances in Intelligent Systems and Computing, 2019, , 316-328.	0.5	0
102	IS2MoD: an interactive system based on expert systems and Kinect devices to support the motor rehabilitation and development of children with disabilities. , 2018, , .		0
103	An intelligent ecosystem to improve the information access and knowledge development about sexual and reproductive health on deaf women in Cuenca, Ecuador. , 2018, , .		0
104	A Multifunction Braille Trainer Based on Embedded Systems, Mobile Apps, Rule-based Reasoning and Data Mining for Children with Visual Impairment. Computacion Y Sistemas, 2018, 22, .	0.2	0
105	An educational tool to teach blind children sexual-health and hygiene through random forest regressors and additive manufacturing. , 2020, , .		0