

Ulises Cortáez

List of Publications by Year in descending order

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104
papers

1,728
citations

304368

22
h-index

315357

38
g-index

117
all docs

117
docs citations

117
times ranked

1711
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing and building real environmental decision support systems. Environmental Modelling and Software, 2004, 19, 857-873.	1.9	185
2	Artificial Intelligence and Environmental Decision Support Systems. Applied Intelligence, 2000, 13, 77-91.	3.3	131
3	Transforming data into knowledge for improved wastewater treatment operation: A critical review of techniques. Environmental Modelling and Software, 2018, 106, 89-103.	1.9	124
4	Connectivity for Healthcare and Well-Being Management: Examples from Six European Projects. International Journal of Environmental Research and Public Health, 2009, 6, 1947-1971.	1.2	80
5	OntoWEDSS: augmenting environmental decision-support systems with ontologies. Environmental Modelling and Software, 2004, 19, 785-797.	1.9	75
6	A comparative study on the use of similarity measures in case-based reasoning to improve the classification of environmental system situations. Environmental Modelling and Software, 2004, 19, 809-819.	1.9	57
7	On the Behavior of Convolutional Nets for Feature Extraction. Journal of Artificial Intelligence Research, 0, 61, 563-592.	7.0	55
8	The Fourth-Revolution in the Water Sector Encounters the Digital Revolution. Environmental Science & Technology, 2020, 54, 4698-4705.	4.6	52
9	<p>Artificial Intelligence to Identify Retinal Fundus Images, Quality Validation, Laterality Evaluation, Macular Degeneration, and Suspected Glaucoma<p>. Clinical Ophthalmology, 2020, Volume 14, 419-429.	0.9	51
10	A new multi-criteria optimization strategy for shared control inÂwheelchair assisted navigation. Autonomous Robots, 2011, 30, 179-197.	3.2	46
11	DAI-DEPUR: an integrated and distributed architecture for wastewater treatment plants supervision. Advanced Engineering Informatics, 1996, 10, 275-285.	0.5	44
12	Increasing Human-Organ Transplant Availability: Argumentation-Based Agent Deliberation. IEEE Intelligent Systems, 2006, 21, 30-37.	4.0	40
13	Preferred extensions as stable models. Theory and Practice of Logic Programming, 2008, 8, 527-543.	1.1	39
14	A knowledge-based approach to the deflocculation problem: integrating on-line, off-line, and heuristic information. Water Research, 2003, 37, 2377-2387.	5.3	37
15	Reducing Fall Risk with Combined Motor and Cognitive Training in Elderly Fallers. Brain Sciences, 2017, 7, 19.	1.1	34
16	Formalizing an electronic institution for the distribution of human tissues. Artificial Intelligence in Medicine, 2003, 27, 233-258.	3.8	31
17	Supporting decision making in urban wastewater systems using a knowledge-based approachâ†. Environmental Modelling and Software, 2011, 26, 562-572.	1.9	29
18	Towards an automatic consensus generator tool: EGAC. IEEE Transactions on Systems, Man, and Cybernetics, 1995, 25, 888-894.	0.9	27

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19	Learning and Adaptation in Wastewater Treatment Plants Through Case-Based Reasoning. Computer-Aided Civil and Infrastructure Engineering, 1997, 12, 251-266.	6.3	27
20	DEPUR: A knowledge-based tool for wastewater treatment plants. Engineering Applications of Artificial Intelligence, 1994, 7, 23-30.	4.3	26
21	Concept Formation in WWTP by Means of Classification Techniques: A Compared Study. Applied Intelligence, 1997, 7, 147-165.	3.3	25
22	Possibilistic conditional independence: A similarity-based measure and its application to causal network learning. International Journal of Approximate Reasoning, 1998, 18, 145-167.	1.9	24
23	Overground walking training with the i-Walker, a robotic servo-assistive device, enhances balance in patients with subacute stroke: a randomized controlled trial. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 47.	2.4	24
24	Deliberation dialogues for reasoning about safety critical actions. Autonomous Agents and Multi-Agent Systems, 2012, 25, 209-259.	1.3	22
25	“Dust in the Wind...” Deep Learning Application to Wind Energy Time Series Forecasting. Energies, 2019, 12, 2385.	1.6	22
26	Fast Single Image Defogging With Robust Sky Detection. IEEE Access, 2020, 8, 149176-149189.	2.6	19
27	Environmental decision support systems: A new approach to support the operation and maintenance of horizontal subsurface flow constructed wetlands. Ecological Engineering, 2007, 30, 362-372.	1.6	18
28	ISCWAP: A knowledge-based system for supervising activated sludge processes. Computers and Chemical Engineering, 1997, 21, 211-221.	2.0	17
29	Intelligent Healthcare Managing: An Assistive Technology Approach. , 2007, , 1045-1051.		16
30	An Approach for Temporal Case-Based Reasoning: Episode-Based Reasoning. Lecture Notes in Computer Science, 2005, , 465-476.	1.0	15
31	Wheelchair collaborative control for disabled users navigating indoors. Artificial Intelligence in Medicine, 2011, 52, 177-191.	3.8	15
32	Agents Deliberating over Action Proposals Using the ProCLAIM Model. Lecture Notes in Computer Science, 2007, , 32-41.	1.0	14
33	Sustainable case learning for continuous domains. Environmental Modelling and Software, 1999, 14, 349-357.	1.9	13
34	UCTx: A Multi-Agent System to Assist a Transplant Coordination Unit. Applied Intelligence, 2004, 20, 59-70.	3.3	13
35	Argumentation-based framework for industrial wastewater discharges management. Engineering Applications of Artificial Intelligence, 2012, 25, 317-325.	4.3	13
36	Semantics for Possibilistic Disjunctive Programs. Lecture Notes in Computer Science, 2007, , 315-320.	1.0	13

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37	Wind Energy Forecasting with Neural Networks: A Literature Review. <i>Computacion Y Sistemas</i> , 2018, 22, .	0.2	13
38	A parallel algorithm for building possibilistic causal networks. <i>International Journal of Approximate Reasoning</i> , 1998, 18, 251-270.	1.9	12
39	Automatic Knowledge Acquisition from Complex Processes for the Development of Knowledge-Based Systems. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 3353-3360.	1.8	12
40	Development of a Case-Based System for the Supervision of an Activated Sludge Process. <i>Environmental Technology (United Kingdom)</i> , 2001, 22, 477-486.	1.2	12
41	Semantics for Possibilistic Disjunctive Programs. <i>Theory and Practice of Logic Programming</i> , 2013, 13, 33-70.	1.1	10
42	A visual embedding for the unsupervised extraction of abstract semantics. <i>Cognitive Systems Research</i> , 2017, 42, 73-81.	1.9	10
43	Qualitative profiles of disability. <i>Journal of Rehabilitation Research and Development</i> , 2004, 41, 835.	1.6	8
44	Towards Formalising Agent Argumentation over the Viability of Human Organs for Transplantation. <i>Lecture Notes in Computer Science</i> , 2005, , 928-938.	1.0	8
45	A Web-Based Platform for People With Memory Problems and Their Caregivers (CAREGIVERSPRO-MMD): Mixed-Methods Evaluation of Usability. <i>JMIR Formative Research</i> , 2018, 2, e4.	0.7	8
46	A machine learning methodology for the selection and classification of spontaneous spinal cord dorsum potentials allows disclosure of structured (non-random) changes in neuronal connectivity induced by nociceptive stimulation. <i>Frontiers in Neuroinformatics</i> , 2015, 9, 21.	1.3	7
47	Reasoning about river basins: WaWO+ revisited. <i>Environmental Modelling and Software</i> , 2017, 89, 106-119.	1.9	7
48	A bio-inspired quaternion local phase CNN layer with contrast invariance and linear sensitivity to rotation angles. <i>Pattern Recognition Letters</i> , 2020, 131, 56-62.	2.6	7
49	The ethical use of high-performance computing and artificial intelligence: fighting COVID-19 at Barcelona Supercomputing Center. <i>AI and Ethics</i> , 2022, 2, 325-340.	4.6	7
50	Training course on donation and transplantation for 16- to 18-year-old schoolchildren in the Hospital de Sant Pau. <i>Transplantation Proceedings</i> , 2002, 34, 29-34.	0.3	5
51	Defining new argumentation-based semantics by minimal models. , 2006, , .		5
52	Possibilistic-Based Argumentation: An Answer Set Programming Approach. , 2008, , .		5
53	Agent-Based Reasoning in Medical Planning and Diagnosis Combining Multiple Strategies. <i>International Journal on Artificial Intelligence Tools</i> , 2014, 23, 1440004.	0.7	5
54	Situated Agents and Humans in Social Interaction for Elderly Healthcare: From Coaalas to AVICENA. <i>Journal of Medical Systems</i> , 2016, 40, 38.	2.2	5

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55	Crossing the Death Valley to Transfer Environmental Decision Support Systems to the Water Market. <i>Global Challenges</i> , 2017, 1, 1700009.	1.8	5
56	Supraspinal Shaping of Adaptive Transitions in the State of Functional Connectivity Between Segmentally Distributed Dorsal Horn Neuronal Populations in Response to Nociception and Antinociception. <i>Frontiers in Systems Neuroscience</i> , 2019, 13, 47.	1.2	5
57	Improving Similarity Assessment with Entropy-Based Local Weighting. , 2003, , 377-391.		5
58	Markovian Analysis of the Sequential Behavior of the Spontaneous Spinal Cord Dorsum Potentials Induced by Acute Nociceptive Stimulation in the Anesthetized Cat. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 32.	1.2	4
59	Designing a gamified social platform for people living with dementia and their live-in family caregivers. , 2018, , .		4
60	Evaluating University-Business Collaboration at Science Parks: a Business Perspective. <i>Triple Helix</i> , 2021, 8, 445-485.	0.2	4
61	Knowledge engineering for a document retrieval system. <i>Fuzzy Sets and Systems</i> , 1990, 38, 223-240.	1.6	3
62	Inquirers: A general model of non-ideal rational agents. , 2000, 15, 197-215.		3
63	Prior knowledge for learning networks in non-probabilistic settings. <i>International Journal of Approximate Reasoning</i> , 2000, 24, 103-120.	1.9	3
64	Dynamic reasoning to solve complex problems in activated sludge processes: a step further in decision support systems. <i>Water Science and Technology</i> , 2006, 53, 191-198.	1.2	3
65	Studying the impact of the Full-Network embedding on multimodal pipelines. <i>Semantic Web</i> , 2019, 10, 909-923.	1.1	3
66	CAREGIVERSPRO-MMD: Community Services, Helping Patients with Dementia and Caregivers Connect with Others for Evaluation, Support and to Improve the Care Experience. <i>Computacion Y Sistemas</i> , 2017, 21, .	0.2	3
67	A Metrics Review for Performance Evaluation on Assisted Wheelchair Navigation. <i>Lecture Notes in Computer Science</i> , 2009, , 1145-1152.	1.0	3
68	A Trainable Monogenic ConvNet Layer Robust in Front of Large Contrast Changes in Image Classification. <i>IEEE Access</i> , 2021, 9, 163735-163746.	2.6	3
69	Dai-depur architecture: Distributed agents for real-time wwtp supervision and control. <i>Annual Review in Automatic Programming</i> , 1994, 19, 147-152.	0.2	2
70	IMPROVEMENTS OF THE DECISION SUPPORT SYSTEM AT THE GRANOLLERS WWTP. <i>Proceedings of the Water Environment Federation</i> , 2002, 2002, 416-424.	0.0	2
71	Environmental sciences and artificial intelligence. <i>Environmental Modelling and Software</i> , 2004, 19, 761-762.	1.9	2
72	A logic-based environmental decision support system for the management of horizontal subsurface constructed wetlands. <i>Ecological Engineering</i> , 2012, 47, 44-55.	1.6	2

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73	A Quaternion Deterministic Monogenic CNN Layer for Contrast Invariance. SEMA SIMAI Springer Series, 2021, , 133-152.	0.4	2
74	iTutorials for the Aid of Cognitively Impaired Elderly Population. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 303-310.	0.2	2
75	AI Based Fall Management Services – The Role of the i-Walker in I-DONTFALL. Lecture Notes in Computer Science, 2013, , 395-406.	1.0	2
76	Deliberation about the Safety of Industrial Wastewater Discharges into Wastewater Treatment Plants. , 2009, , 37-60.		2
77	Subjective Situations and Logical Omniscience. Studia Logica, 2002, 72, 7-29.	0.4	1
78	Guest Editorial: Machine Learning Policies. Applied Intelligence, 2004, 20, 7-8.	3.3	1
79	A Push-Based Agent Communication Model Empowering Assistive Technologies. International Journal on Artificial Intelligence Tools, 2014, 23, 1440003.	0.7	1
80	Kernel alignment for identifying objective criteria from brain MEG recordings in schizophrenia. Pattern Recognition Letters, 2017, 93, 172-181.	2.6	1
81	Predicting Wind Energy Generation with Recurrent Neural Networks. Lecture Notes in Computer Science, 2018, , 89-98.	1.0	1
82	Recurrent inhibition in the cerebral cortex. Neuroscience Letters, 2019, 696, 20-27.	1.0	1
83	Data Augmentation for Deep Learning of Non-mydratic Screening Retinal Fundus Images. Communications in Computer and Information Science, 2019, , 188-199.	0.4	1
84	To Be fAIR or Not to Be: Using AI for the Good of Citizens. IEEE Technology and Society Magazine, 2021, 40, 55-70.	0.6	1
85	The Organisational Structure of an Agent-Based Model for the Management of Wastewater Systems. Water (Switzerland), 2021, 13, 1258.	1.2	1
86	A Norm-Aware Multi-agent System for Social Simulations in a River Basin. Intelligent Systems Reference Library, 2017, , 67-90.	1.0	1
87	To Share or Not to Share SHARE-it: Lessons Learnt. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 295-302.	0.2	1
88	Modality Argumentation Programming. Lecture Notes in Computer Science, 2006, , 295-306.	1.0	1
89	Legal Concerns Regarding Aml Assisted Living in the Elderly, Worldwide and in Romania. Lecture Notes in Computer Science, 2009, , 1083-1089.	1.0	1
90	Subjective Situations. Lecture Notes in Computer Science, 1999, , 210-220.	1.0	1

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91	Ontology Development of Semantic E-Learning for Final Project Course. <i>Advanced Science Letters</i> , 2015, 21, 46-51.	0.2	1
92	DIALCAT: Diabetes as an accelerator of cognitive impairment and Alzheimer's disease, comprehensive approach and adherence to treatment. <i>Computacion Y Sistemas</i> , 2019, 23, .	0.2	1
93	The Impact of Cognitive Navigation Assistance on People with Special Needs. , 2007, , 1060-1066.		1
94	Using CARREL to Increase Availability of Human Organs for Transplantation. , 2007, , 1082-1089.		1
95	A Framework for Abductive Rule Formation. <i>AI Communications</i> , 1995, 8, 91-100.	0.8	0
96	Situated robotics: from learning to teaching by imitation. <i>Cognitive Processing</i> , 2005, 6, 196-201.	0.7	0
97	Avoiding Logical Omniscience by Using Subjective Situations. <i>Lecture Notes in Computer Science</i> , 2000, , 284-299.	1.0	0
98	Normal versus Pathological Cognitive Aging: Variability as a Constraint of Patients Profiling for Aml Design. <i>Lecture Notes in Computer Science</i> , 2009, , 1161-1167.	1.0	0
99	Using Situation Calculus for Normative Agents in Urban Wastewater Systems. <i>Advances in Intelligent and Soft Computing</i> , 2010, , 247-257.	0.2	0
100	ALIVE Meets SHARE-it: An Agent-Oriented Solution to Model Organisational and Normative Requirements in Assistive Technologies. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2011, , 319-326.	0.2	0
101	Detection, Count, and Classification of Visual Ganglia Columns of Drosophila Pupae. <i>Computacion Y Sistemas</i> , 2019, 23, .	0.2	0
102	Trustworthy AI. The AI4EU approach. , 2020, , .		0
103	Using Case-Based Reasoning to Overcome High Computing Cost Interactive Simulations. , 2003, , 581-594.		0
104	Shared Autonomy in Assistive Technologies. , 2007, , 1067-1073.		0