

Ulises Cortáez

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

1,728
citations

304602

22
h-index

315616

38
g-index

117
all docs

117
docs citations

117
times ranked

1711
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Evaluating University-Business Collaboration at Science Parks: a Business Perspective. <i>Triple Helix</i> , 2021, 8, 445-485.	0.2	4
3	A Quaternion Deterministic Monogenic CNN Layer for Contrast Invariance. <i>SEMA SIMAI Springer Series</i> , 2021, , 133-152.	0.4	2
4	To Be fAIr or Not to Be: Using AI for the Good of Citizens. <i>IEEE Technology and Society Magazine</i> , 2021, 40, 55-70.	0.6	1
5	The Organisational Structure of an Agent-Based Model for the Management of Wastewater Systems. <i>Water (Switzerland)</i> , 2021, 13, 1258.	1.2	1
6	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
7	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
8	Fast Single Image Defogging With Robust Sky Detection. <i>IEEE Access</i> , 2020, 8, 149176-149189.	2.6	19
9	The Fourth-Revolution in the Water Sector Encounters the Digital Revolution. <i>Environmental Science & Technology</i> , 2020, 54, 4698-4705.	4.6	52
10	<p>Artificial Intelligence to Identify Retinal Fundus Images, Quality Validation, Laterality Evaluation, Macular Degeneration, and Suspected Glaucoma</p>. <i>Clinical Ophthalmology</i> , 2020, Volume 14, 419-429.	0.9	51
11	Trustworthy AI. The AI4EU approach. , 2020, , .		0
12	â€œDust in the Wind...â€ Deep Learning Application to Wind Energy Time Series Forecasting. <i>Energies</i> , 2019, 12, 2385.	1.6	22
13	Recurrent inhibition in the cerebral cortex. <i>Neuroscience Letters</i> , 2019, 696, 20-27.	1.0	1
14	Studying the impact of the Full-Network embedding on multimodal pipelines. <i>Semantic Web</i> , 2019, 10, 909-923.	1.1	3
15	Data Augmentation for Deep Learning of Non-mydratic Screening Retinal Fundus Images. <i>Communications in Computer and Information Science</i> , 2019, , 188-199.	0.4	1
16	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
17	Detection, Count, and Classification of Visual Ganglia Columns of Drosophila Pupae. <i>Computacion Y Sistemas</i> , 2019, 23, .	0.2	0
18	DIALCAT: Diabetes as an accelerator of cognitive impairment and Alzheimerâ€™s disease, comprehensive approach and adherence to treatment. <i>Computacion Y Sistemas</i> , 2019, 23, .	0.2	1

#	ARTICLE	IF	CITATIONS
19	Transforming data into knowledge for improved wastewater treatment operation: A critical review of techniques. <i>Environmental Modelling and Software</i> , 2018, 106, 89-103.	1.9	124
20	Predicting Wind Energy Generation with Recurrent Neural Networks. <i>Lecture Notes in Computer Science</i> , 2018, , 89-98.	1.0	1
21	Designing a gamified social platform for people living with dementia and their live-in family caregivers. , 2018, , .		4
22	Wind Energy Forecasting with Neural Networks: A Literature Review. <i>Computacion Y Sistemas</i> , 2018, 22, .	0.2	13
23	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
24	A visual embedding for the unsupervised extraction of abstract semantics. <i>Cognitive Systems Research</i> , 2017, 42, 73-81.	1.9	10
25	Reasoning about river basins: WaWO+ revisited. <i>Environmental Modelling and Software</i> , 2017, 89, 106-119.	1.9	7
26	Crossing the Death Valley to Transfer Environmental Decision Support Systems to the Water Market. <i>Global Challenges</i> , 2017, 1, 1700009.	1.8	5
27	Kernel alignment for identifying objective criteria from brain MEG recordings in schizophrenia. <i>Pattern Recognition Letters</i> , 2017, 93, 172-181.	2.6	1
28	Reducing Fall Risk with Combined Motor and Cognitive Training in Elderly Fallers. <i>Brain Sciences</i> , 2017, 7, 19.	1.1	34
29	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
30	A Norm-Aware Multi-agent System for Social Simulations in a River Basin. <i>Intelligent Systems Reference Library</i> , 2017, , 67-90.	1.0	1
31	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
32	Overground walking training with the i-Walker, a robotic servo-assistive device, enhances balance in patients with subacute stroke: a randomized controlled trial. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 47.	2.4	24
33	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
34	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
35	Ontology Development of Semantic E-Learning for Final Project Course. <i>Advanced Science Letters</i> , 2015, 21, 46-51.	0.2	1
36	A Push-Based Agent Communication Model Empowering Assistive Technologies. <i>International Journal on Artificial Intelligence Tools</i> , 2014, 23, 1440003.	0.7	1

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37	Agent-Based Reasoning in Medical Planning and Diagnosis Combining Multiple Strategies. International Journal on Artificial Intelligence Tools, 2014, 23, 1440004.	0.7	5
38	Semantics for Possibilistic Disjunctive Programs. Theory and Practice of Logic Programming, 2013, 13, 33-70.	1.1	10
39	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
40	A logic-based environmental decision support system for the management of horizontal subsurface constructed wetlands. Ecological Engineering, 2012, 47, 44-55.	1.6	2
41	Deliberation dialogues for reasoning about safety critical actions. Autonomous Agents and Multi-Agent Systems, 2012, 25, 209-259.	1.3	22
42	Argumentation-based framework for industrial wastewater discharges management. Engineering Applications of Artificial Intelligence, 2012, 25, 317-325.	4.3	13
43	Wheelchair collaborative control for disabled users navigating indoors. Artificial Intelligence in Medicine, 2011, 52, 177-191.	3.8	15
44	A new multi-criteria optimization strategy for shared control in wheelchair assisted navigation. Autonomous Robots, 2011, 30, 179-197.	3.2	46
45	Supporting decision making in urban wastewater systems using a knowledge-based approach. Environmental Modelling and Software, 2011, 26, 562-572.	1.9	29
46	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
47	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
48	ALIVE Meets SHARE-it: An Agent-Oriented Solution to Model Organisational and Normative Requirements in Assistive Technologies. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 319-326.	0.2	0
49	Using Situation Calculus for Normative Agents in Urban Wastewater Systems. Advances in Intelligent and Soft Computing, 2010, , 247-257.	0.2	0
50	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
51	Normal versus Pathological Cognitive Aging: Variability as a Constraint of Patients Profiling for Aml Design. Lecture Notes in Computer Science, 2009, , 1161-1167.	1.0	0
52	Legal Concerns Regarding Aml Assisted Living in the Elderly, Worldwide and in Romania. Lecture Notes in Computer Science, 2009, , 1083-1089.	1.0	1
53	A Metrics Review for Performance Evaluation on Assisted Wheelchair Navigation. Lecture Notes in Computer Science, 2009, , 1145-1152.	1.0	3
54	Deliberation about the Safety of Industrial Wastewater Discharges into Wastewater Treatment Plants. , 2009, , 37-60.		2

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55	Possibilistic-Based Argumentation: An Answer Set Programming Approach. , 2008, , .		5
56	Preferred extensions as stable models. Theory and Practice of Logic Programming, 2008, 8, 527-543.	1.1	39
57	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
58	Semantics for Possibilistic Disjunctive Programs. Lecture Notes in Computer Science, 2007, , 315-320.	1.0	13
59	Intelligent Healthcare Managing: An Assistive Technology Approach. , 2007, , 1045-1051.		16
60	Agents Deliberating over Action Proposals Using the ProCLAIM Model. Lecture Notes in Computer Science, 2007, , 32-41.	1.0	14
61	The Impact of Cognitive Navigation Assistance on People with Special Needs. , 2007, , 1060-1066.		1
62	Shared Autonomy in Assistive Technologies. , 2007, , 1067-1073.		0
63	Using CARREL+â€‰ to Increase Availability of Human Organs for Transplantation. , 2007, , 1082-1089.		1
64	Increasing Human-Organ Transplant Availability: Argumentation-Based Agent Deliberation. IEEE Intelligent Systems, 2006, 21, 30-37.	4.0	40
65	Dynamic reasoning to solve complex problems in activated sludge processes: a step further in decision support systems. Water Science and Technology, 2006, 53, 191-198.	1.2	3
66	Defining new argumentation-based semantics by minimal models. , 2006, , .		5
67	Modality Argumentation Programming. Lecture Notes in Computer Science, 2006, , 295-306.	1.0	1
68	Situated robotics: from learning to teaching by imitation. Cognitive Processing, 2005, 6, 196-201.	0.7	0
69	An Approach for Temporal Case-Based Reasoning: Episode-Based Reasoning. Lecture Notes in Computer Science, 2005, , 465-476.	1.0	15
70	Towards Formalising Agent Argumentation over the Viability of Human Organs for Transplantation. Lecture Notes in Computer Science, 2005, , 928-938.	1.0	8
71	Qualitative profiles of disability. Journal of Rehabilitation Research and Development, 2004, 41, 835.	1.6	8
72	UCTx: A Multi-Agent System to Assist a Transplant Coordination Unit. Applied Intelligence, 2004, 20, 59-70.	3.3	13

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73	Guest Editorial: Machine Learning Policies. <i>Applied Intelligence</i> , 2004, 20, 7-8.	3.3	1
74	A comparative study on the use of similarity measures in case-based reasoning to improve the classification of environmental system situations. <i>Environmental Modelling and Software</i> , 2004, 19, 809-819.	1.9	57
75	OntoWEDSS: augmenting environmental decision-support systems with ontologies. <i>Environmental Modelling and Software</i> , 2004, 19, 785-797.	1.9	75
76	Designing and building real environmental decision support systems. <i>Environmental Modelling and Software</i> , 2004, 19, 857-873.	1.9	185
77	Environmental sciences and artificial intelligence. <i>Environmental Modelling and Software</i> , 2004, 19, 761-762.	1.9	2
78	Formalizing an electronic institution for the distribution of human tissues. <i>Artificial Intelligence in Medicine</i> , 2003, 27, 233-258.	3.8	31
79	A knowledge-based approach to the deflocculation problem: integrating on-line, off-line, and heuristic information. <i>Water Research</i> , 2003, 37, 2377-2387.	5.3	37
80	Improving Similarity Assessment with Entropy-Based Local Weighting. , 2003, , 377-391.		5
81	Using Case-Based Reasoning to Overcome High Computing Cost Interactive Simulations. , 2003, , 581-594.		0
82	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
83	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
84	Subjective Situations and Logical Omniscience. <i>Studia Logica</i> , 2002, 72, 7-29.	0.4	1
85	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
86	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
87	Inquirers: A general model of non-ideal rational agents. , 2000, 15, 197-215.		3
88	Prior knowledge for learning networks in non-probabilistic settings. <i>International Journal of Approximate Reasoning</i> , 2000, 24, 103-120.	1.9	3
89	Artificial Intelligence and Environmental Decision Support Systems. <i>Applied Intelligence</i> , 2000, 13, 77-91.	3.3	131
90	Avoiding Logical Omniscience by Using Subjective Situations. <i>Lecture Notes in Computer Science</i> , 2000, , 284-299.	1.0	0

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91	Sustainable case learning for continuous domains. Environmental Modelling and Software, 1999, 14, 349-357.	1.9	13
92	Subjective Situations. Lecture Notes in Computer Science, 1999, , 210-220.	1.0	1
93	A parallel algorithm for building possibilistic causal networks. International Journal of Approximate Reasoning, 1998, 18, 251-270.	1.9	12
94	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
95	Learning and Adaptation in Wastewater Treatment Plants Through Case-Based Reasoning. Computer-Aided Civil and Infrastructure Engineering, 1997, 12, 251-266.	6.3	27
96	Concept Formation in WWTP by Means of Classification Techniques: A Compared Study. Applied Intelligence, 1997, 7, 147-165.	3.3	25
97	ISCWAP: A knowledge-based system for supervising activated sludge processes. Computers and Chemical Engineering, 1997, 21, 211-221.	2.0	17
98	DAI-DEPUR: an integrated and distributed architecture for wastewater treatment plants supervision. Advanced Engineering Informatics, 1996, 10, 275-285.	0.5	44
99	Towards an automatic consensus generator tool: EGAC. IEEE Transactions on Systems, Man, and Cybernetics, 1995, 25, 888-894.	0.9	27
100	A Framework for Abductive Rule Formation. AI Communications, 1995, 8, 91-100.	0.8	0
101	DEPUR: A knowledge-based tool for wastewater treatment plants. Engineering Applications of Artificial Intelligence, 1994, 7, 23-30.	4.3	26
102	Dai-depur architecture: Distributed agents for real-time wwtp supervision and control. Annual Review in Automatic Programming, 1994, 19, 147-152.	0.2	2
103	Knowledge engineering for a document retrieval system. Fuzzy Sets and Systems, 1990, 38, 223-240.	1.6	3
104	On the Behavior of Convolutional Nets for Feature Extraction. Journal of Artificial Intelligence Research, 0, 61, 563-592.	7.0	55