Juan Carlos Burguillo

List of Publications by Year
in descending order

120	1,862	759055 12	315616 38
papers	citations	h-index	g-index

127	127	127	1737
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Using game theory and Competition-based Learning to stimulate student motivation and performance. Computers and Education, 2010, 55, 566-575.	5.1	437
2	Complex networks. European Physical Journal B, 2004, 38, 147-162.	0.6	394
3	A hybrid content-based and item-based collaborative filtering approach to recommend TV programs enhanced with singular value decomposition. Information Sciences, 2010, 180, 4290-4311.	4.0	288
4	On the Analysis of Scheduling in Dynamic Duplex Multihop mmWave Cellular Systems. IEEE Transactions on Wireless Communications, 2015, 14, 6028-6042.	6.1	46
5	CHARLIE: An AIML-based chatterbot which works as an interface among INES and humans. , 2009, , .		38
6	Timing Uncertainty in Collective Risk Dilemmas Encourages Group Reciprocation and Polarization. IScience, 2020, 23, 101752.	1.9	28
7	A Combined Global & Local Search (CGLS) Approach to Global Optimization. Journal of Global Optimization, 2006, 34, 409-426.	1.1	27
8	moreTourism: Mobile recommendations for tourism. , 2011, , .		27
9	An intelligent tutoring module controlled by BDI agents for an e-learning platform. Expert Systems With Applications, 2012, 39, 7546-7554.	4.4	27
10	A Qualitative Comparison of Techniques for Student Modeling in Intelligent Tutoring Systems. , 2006, , .		26
11	Exploiting Social Tagging in a Web 2.0 Recommender System. IEEE Internet Computing, 2010, 14, 23-30.	3.2	26
12	A Review Of Methods For Encoding Neural Network Topologies In Evolutionary Computation. , 2011, , .		23
13	On-line guest profiling and hotel recommendation. Electronic Commerce Research and Applications, 2019, 34, 100832.	2.5	19
14	Self-Adapting Coalition Formation Among Electric Vehicles in Smart Grids. , 2013, , .		13
15	Trust-based Modelling of Multi-criteria Crowdsourced Data. Data Science and Engineering, 2017, 2, 199-209.	4.6	13
16	Scalable modelling and recommendation using wiki-based crowdsourced repositories. Electronic Commerce Research and Applications, 2019, 33, 100817.	2.5	13
17	A transport based clearing system for dynamic carpooling business services. , 2011, , .		12
18	NLAST: A natural language assistant for students. , 2016, , .		12

#	Article	IF	Citations
19	Delay-Aware Optimization Framework for Proportional Flow Delay Differentiation in Millimeter-Wave Backhaul Cellular Networks. IEEE Transactions on Communications, 2018, 66, 2037-2051.	4.9	12
20	Responsible processing of crowdsourced tourism data. Journal of Sustainable Tourism, 2021, 29, 774-794.	5.7	12
21	Performance analysis of IEEE 802.11p in urban environments using a multi-agent model. , 2008, , .		11
22	Fostering Cooperation through Dynamic Coalition Formation and Partner Switching. ACM Transactions on Autonomous and Adaptive Systems, 2014, 9, 1-31.	0.4	11
23	A multi-agent brokerage platform for media content recommendation. International Journal of Applied Mathematics and Computer Science, 2015, 25, 513-527.	1.5	10
24	Scalable data analytics using crowdsourced repositories and streams. Journal of Parallel and Distributed Computing, 2018, 122, 1-10.	2.7	10
25	Prediction and Analysis of Hotel Ratings from Crowd-Sourced Data. Advances in Intelligent Systems and Computing, 2017, , 493-502.	0.5	10
26	Emerging Cooperation in N-Person Iterated Prisoner's Dilemma over Dynamic Complex Networks. Computing and Informatics, 2017, 36, 493-516.	0.4	10
27	Learning to cooperate in the Iterated Prisonerâ€™s Dilemma by means of social attachments. Journal of the Brazilian Computer Society, 2011, 17, 163-174.	0.8	9
28	Using self-organizing maps with complex network topologies and coalitions for time series prediction. Soft Computing, 2014, 18, 695-705.	2.1	9
29	Using reputation and adaptive coalitions to support collaboration in competitive environments. Engineering Applications of Artificial Intelligence, 2015, 45, 325-338.	4.3	9
30	Emerging Cooperation in the Spatial IPD with Reinforcement Learning and Coalitions. Studies in Computational Intelligence, 2011, , 187-206.	0.7	9
31	Explicit gradient information in multiobjective optimization. Operations Research Letters, 2008, 36, 722-725.	0.5	8
32	T-Bot and Q-Bot: A couple of AIML-based bots for tutoring courses and evaluating students. , 2008, , .		8
33	A BDI-based intelligent tutoring module for the e-learning platform INES. , 2010, , .		8
34	Implementation and analysis of the BitTorrent protocol with a multi-agent model. Journal of Network and Computer Applications, 2011, 34, 368-383.	5.8	8
35	Analysis and Visualisation of Crowd-sourced Tourism Data. , 2016, , .		8
36	Evolutionary Algorithms Based on Game Theory and Cellular Automata with Coalitions. Intelligent Systems Reference Library, 2013, , 481-503.	1.0	8

#	Article	IF	Citations
37	Carpooling: A Multi-Agent Simulation In Netlogo. , 2011, , .		8
38	Playing with complexity: From cellular evolutionary algorithms with coalitions to self-organizing maps. Computers and Mathematics With Applications, 2013, 66, 201-212.	1.4	7
39	Exploiting Context-Awareness for Secure Spectrum Trading in Multi-Hop Cognitive Cellular Networks. , 2015, , .		7
40	Heterogeneous millimeter-wave/micro-wave architecture for 5G wireless access and backhauling. , 2016, , .		7
41	Context-aware tourism technologies. Knowledge Engineering Review, 2018, 33, .	2.1	7
42	Incremental Hotel Recommendation with Inter-guest Trust and Similarity Post-filtering. Advances in Intelligent Systems and Computing, 2019, , 262-272.	0.5	7
43	Outdoor WLAN planning via non-monotone derivative-free optimization: algorithm adaptation and case study. Computational Optimization and Applications, 2008, 40, 405-419.	0.9	6
44	Topology-based analysis of self-organizing maps for time series prediction. Soft Computing, 2017, 21, 1601-1618.	2.1	6
45	Trust and Reputation Modelling for Tourism Recommendations Supported by Crowdsourcing. Advances in Intelligent Systems and Computing, 2018, , 829-838.	0.5	6
46	Flexible asynchronous simulation of iterated prisonerâ€™s dilemma based on actor model. Simulation Modelling Practice and Theory, 2018, 83, 75-92.	2.2	6
47	Analysis and prediction of hotel ratings from crowdsourced data. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2019, 9, e1296.	4.6	6
48	Designing Intelligent Tutoring Systems: A Personalization Strategy using Case-Based Reasoning and Multi-Agent Systems. Advances in Distributed Computing and Artificial Intelligence Journal, 2013, 2, 41-54.	1.1	6
49	Stream-based explainable recommendations via blockchain profiling. Integrated Computer-Aided Engineering, 2021, , 1-17.	2.5	6
50	Developing virtual teaching assistants for open e-learning platforms. , 2008, , .		5
51	A zero-overhead error-correcting nVoD schema. Multimedia Tools and Applications, 2010, 48, 291-312.	2.6	5
52	A self-adapting similarity-based coalition formation approach for plug-in electric vehicles in smart grids. Multiagent and Grid Systems, 2015, 11, 167-187.	0.5	5
53	A 2020 perspective on â€œOnline guest profiling and hotel recommendationâ€: Reliability, Scalability, Traceability and Transparency. Electronic Commerce Research and Applications, 2020, 40, 100957.	2.5	5
54	Heuristic-Driven Test Case Selection from Formal Specifications. A Case Study. Lecture Notes in Computer Science, 2002, , 57-76.	1.0	5

#	Article	IF	Citations
55	Using Complex Network Topologies and Self-Organizing Maps for Time Series Prediction. Advances in Intelligent Systems and Computing, 2013, , 323-332.	0.5	5
56	Personalised fading for stream data. , 2017, , .		5
57	CloudAnchor: Agent-Based Brokerage of Federated Cloud Resources. Lecture Notes in Computer Science, 2016, , 207-218.	1.0	5
58	Self-organizing Coalitions for Managing Complexity. Emergence, Complexity and Computation, 2018, , .	0.2	5
59	Self-organization. Emergence, Complexity and Computation, 2018, , 89-100.	0.2	4
60	Forecasting Cryptocurrency Value by Sentiment Analysis: An HPC-Oriented Survey of the State-of-the-Art in the Cloud Era. Lecture Notes in Computer Science, 2019, , 325-349.	1.0	4
61	A 2020 perspective on â€œScalable modelling and recommendation using wiki-based crowdsourced repositories:â€•Fairness, scalability, and real-time recommendation. Electronic Commerce Research and Applications, 2020, 40, 100951.	2.5	4
62	Profiling And Rating Prediction From Multi-Criteria Crowd-Sourced Hotel Ratings. , 2017, , .		4
63	Quantitative assessment of the benefits of RFID technology for libraries: a trans-European study. , 2007, , .		3
64	Integrating Intelligent Tutoring Systems and Health Information Systems. , 2007, , .		3
65	Modelling and simulating a dynamic carpooling system for improving citizens mobility. International Journal of Space-Based and Situated Computing, 2012, 2, 209.	0.2	3
66	How Coalitions Enhance Cooperation in the IPD over Complex Networks. , 2012, , .		3
67	A Microeconomic Approach to Data Trading in User Provided Networks. , 2015, , .		3
68	Multi-agent Systems. Emergence, Complexity and Computation, 2018, , 69-87.	0.2	3
69	Modeling behavioral experiments on uncertainty and cooperation with population-based reinforcement learning. Simulation Modelling Practice and Theory, 2021, 109, 102299.	2.2	3
70	USING TAGS IN AN AIML-BASED CHATTERBOT TO IMPROVE ITS KNOWLEDGE. Computer Science, 2012, 13, 123.	0.4	3
71	A Tagging Recommender Service for Mobile Terminals. , 2013, , 424-435.		3
72	Federated IaaS Resource Brokerage. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2016, , 252-280.	0.5	3

#	Article	IF	Citations
73	Explanation Plug-In for Stream-Based Collaborative Filtering. Lecture Notes in Networks and Systems, 2022, , 42-51.	0.5	3
74	Wireless protocol testing and validation supported by formal methods. A hands-on report. Journal of Systems and Software, 2005, 75, 139-154.	3.3	2
75	A Case-Based Approach for Building Intelligent Tutoring Systems. , 2006, , .		2
76	Low-Cost Stabilized Platform for Airborne Sensor Positioning. Lecture Notes in Computer Science, 2006, , 263-268.	1.0	2
77	Multi-agent Architecture for Intelligent Tutoring Systems Interoperability in Health Education. Lecture Notes in Computer Science, 2007, , 331-333.	1.0	2
78	A case-based peer-to-peer framework for managing student models in Intelligent Tutoring Systems. , 2008, , .		2
79	A Study for Self-adapting Urban Traffic Control. Lecture Notes in Computer Science, 2016, , 63-74.	1.0	2
80	Coalitions of Electric Vehicles in Smart Grids. Emergence, Complexity and Computation, 2018, , 207-263.	0.2	2
81	Impact of Trust and Reputation Based Brokerage on the CloudAnchor Platform. Lecture Notes in Computer Science, 2020, , 303-314.	1.0	2
82	Semantic Profiling and Destination Recommendation based on Crowd-sourced Tourist Reviews. Advances in Intelligent Systems and Computing, 2018, , 140-147.	0.5	2
83	SINCO: Intelligent System in Disease Prevention and Control. An Architectural Approach. Lecture Notes in Computer Science, 2004, , 129-140.	1.0	2
84	Nonlinear Optimization of IEEE 802.11 Mesh Networks. Lecture Notes in Computer Science, 2007, , 466-473.	1.0	2
85	Agent-Controlled Sharing of Distributed Resources in User Networks. Studies in Computational Intelligence, 2007, , 29-60.	0.7	2
86	Agent-Driven Resource Optimization in User Networks: A Game Theoretical Approach. Lecture Notes in Computer Science, 2004, , 335-344.	1.0	2
87	URBANCONTEXT: A MANAGEMENT MODEL FOR PERVASIVE ENVIRONMENTS IN USER-ORIENTED URBAN COMPUTING. Computer Science, 2014, 15, 75.	0.4	2
88	Improving Computer Support for Cooperative Applications over Internet. Lecture Notes in Computer Science, 1999, , 305-310.	1.0	1
89	Case-Based Student Modeling in Multi-agent Learning Environment. Lecture Notes in Computer Science, 2005, , 72-81.	1.0	1
90	Cooperative CBR System for Sharing Student Models in Cooperative Intelligent Tutoring Systems. Lecture Notes in Computer Science, 2007, , 313-315.	1.0	1

#	Article	IF	Citations
91	Multi-Agent System Model of a BitTorrent Network. , 2008, , .		1
92	Web-oriented business intelligence solution based on Associative Query Logic. Software - Practice and Experience, 2010, 40, n/a-n/a.	2.5	1
93	Dynamic Personalisation of Media Content. , 2011, , .		1
94	TAGGEMENDOR: Relating multimedia using folksonomies. , 2011, , .		1
95	Personalised placement in networked video. , 2012, , .		1
96	Personalised Dynamic Viewer Profiling for Streamed Data. Advances in Intelligent Systems and Computing, 2018, , 501-510.	0.5	1
97	Crowdsourced Data Stream Mining for Tourism Recommendation. Advances in Intelligent Systems and Computing, 2021, , 260-269.	0.5	1
98	A Multi-agent Approach to Resource Sharing Optimization in User Networks. Lecture Notes in Computer Science, 2006, , 815-822.	1.0	1
99	X-Learn: An Intelligent Educational System Oriented towards the Net. Lecture Notes in Computer Science, 2004, , 628-637.	1.0	1
100	SinCity: A Pedagogical Testbed For Checking Multi-Agent Learning Techniques. , 2009, , .		1
101	Applying Data Mining in Urban Environments Using the Roles Model Approach. Lecture Notes in Computer Science, 2014, , 698-709.	1.0	1
102	Mathematical programming evaluation of intrinsic survivability in packet-path networks. , 0, , .		0
103	Wireless Satellite Network Monitoring using Distributed Multiagent Systems. , 0, , .		0
104	Agent model of C2C communications in urban environments. , 2008, , .		0
105	Collaborative Filtering with Semantic Neighbour Discovery. Lecture Notes in Computer Science, 2016, , 273-284.	1.0	0
106	Ownership and Trade in Complex Networks. Emergence, Complexity and Computation, 2018, , 267-292.	0.2	0
107	Promoting Indirect Reciprocity Using Coalitions. Emergence, Complexity and Computation, 2018, , 293-321.	0.2	0
108	A Coalitional Game of Life. Emergence, Complexity and Computation, 2018, , 323-338.	0.2	0

#	Article	IF	Citations
109	Complex Systems. Emergence, Complexity and Computation, 2018, , 11-34.	0.2	0
110	Optimization Models with Coalitional Cellular Automata. Emergence, Complexity and Computation, 2018, , 139-169.	0.2	0
111	Time Series Prediction Using Coalitions and Self-organizing Maps. Emergence, Complexity and Computation, 2018, , 171-205.	0.2	0
112	Tools for Creation and Management of Didactic Resources in EIE. , 2003, , 1-12.		0
113	Agent-Controlled Distributed Resource Sharing to Improve P2P File Exchanges in User Networks. Lecture Notes in Computer Science, 2006, , 659-669.	1.0	0
114	Ownership and Trade in Spatial Evolutionary Memetic Games. , 2010, , 455-464.		0
115	EPMAS: Evolutionary Programming Multi-Agent Systems. , 2010, , .		0
116	On the Dissemination of IEEE 802.11p Warning Messages in Distributed Vehicular Urban Networks. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2013, , 234-252.	0.5	0
117	Finding the Most Influential Parameters of Coalitions in a PSO-CO Algorithm. Communications in Computer and Information Science, 2018, , 284-296.	0.4	0
118	Towards Large-Scale Optimization of Iterated Prisoner Dilemma Strategies. Lecture Notes in Computer Science, 2019, , 167-183.	1.0	0
119	A Mobile Peer-to-Peer Network of CBR Agents to Provide e-Assistance. Advances in Soft Computing, 2009, , 229-238.	0.4	0
120	Probabilistic memory-one strategies to dominate the iterated Prisonerâ€™s Dilemma over networks. Simulation Modelling Practice and Theory, 2022, , 102582.	2.2	0