Juan A BotÃ-a

List of Publications by Year
in descending order

94 papers	4,220 citations	218381 26 h-index	149479 56 g-index
118 all docs	118 docs citations	118 times ranked	6771 citing authors

#	Article	IF	Citations
1	Identification of novel risk loci, causal insights, and heritable risk for Parkinson's disease: a meta-analysis of genome-wide association studies. Lancet Neurology, The, 2019, 18, 1091-1102.	4.9	1,414
2	Structural brain abnormalities in the common epilepsies assessed in a worldwide ENIGMA study. Brain, 2018, 141, 391-408.	3.7	352
3	An additional k-means clustering step improves the biological features of WGCNA gene co-expression networks. BMC Systems Biology, 2017, 11, 47.	3.0	253
4	Ambient Assisted Living system for in-home monitoring of healthy independent elders. Expert Systems With Applications, 2012, 39, 8136-8148.	4.4	114
5	Picomolar concentrations of oligomeric alpha-synuclein sensitizes TLR4 to play an initiating role in Parkinsonâ€™s disease pathogenesis. Acta Neuropathologica, 2019, 137, 103-120.	3.9	103
6	Discovery and functional prioritization of Parkinsonâ€™s disease candidate genes from large-scale whole exome sequencing. Genome Biology, 2017, 18, 22.	3.8	96
7	Mitochondria function associated genes contribute to Parkinsonâ€™s Disease risk and later age at onset. Npj Parkinson's Disease, 2019, 5, 8.	2.5	95
8	Identification of Candidate Parkinson Disease Genes by Integrating Genome-Wide Association Study, Expression, and Epigenetic Data Sets. JAMA Neurology, 2021, 78, 464.	4.5	95
9	Trem2 promotes anti-inflammatory responses in microglia and is suppressed under pro-inflammatory conditions. Human Molecular Genetics, 2020, 29, 3224-3248.	1.4	76
10	A Fuzzy Logic-Based System for Indoor Localization Using WiFi in Ambient Intelligent Environments. IEEE Transactions on Fuzzy Systems, 2013, 21, 702-718.	6.5	72
11	Large-scale pathway specific polygenic risk and transcriptomic community network analysis identifies novel functional pathways in Parkinson disease. Acta Neuropathologica, 2020, 140, 341-358.	3.9	68
12	Genetic variability in response to amyloid beta deposition influences Alzheimerâ€™s disease risk. Brain Communications, 2019, 1, fcz022.	1.5	67
13	A genetic link between risk for Alzheimer's disease and severe COVID-19 outcomes via the OAS1 gene. Brain, 2021, 144, 3727-3741.	3.7	65
14	Penetrance of Parkinson's Disease in LRRK2 p.G2019S Carriers Is Modified by a Polygenic Risk Score. Movement Disorders, 2020, 35, 774-780.	2.2	57
15	PDXK mutations cause polyneuropathy responsive to pyridoxal 5â€²â€phosphate supplementation. Annals of Neurology, 2019, 86, 225-240.	2.8	54
16	Dystonia genes functionally converge in specific neurons and share neurobiology with psychiatric disorders. Brain, 2020, 143, 2771-2787.	3.7	50
17	The Genetic Architecture of Parkinson Disease in Spain: Characterizing Populationâ€Specific Risk, Differential Haplotype Structures, and Providing Etiologic Insight. Movement Disorders, 2019, 34, 1851-1863.	2.2	47
18	Transcriptomic and genetic analyses reveal potential causal drivers for intractable partial epilepsy. Brain, 2019, 142, 1616-1630.	3.7	47

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19	A loss-of-function homozygous mutation in DDX59 implicates a conserved DEAD-box RNA helicase in nervous system development and function. Human Mutation, 2018, 39, 187-192.	1.1	44
20	Incomplete annotation has a disproportionate impact on our understanding of Mendelian and complex neurogenetic disorders. Science Advances, 2020, 6, .	4.7	44
21	Multi-modality machine learning predicting Parkinsonâ€™s disease. Npj Parkinson's Disease, 2022, 8, 35.	2.5	44
22	Biallelic mutations in neurofascin cause neurodevelopmental impairment and peripheral demyelination. Brain, 2019, 142, 2948-2964.	3.7	43
23	White matter DNA methylation profiling reveals deregulation of HIP1, LMAN2, MOBP, and other loci in multiple system atrophy. Acta Neuropathologica, 2020, 139, 135-156.	3.9	42
24	A domain-specific language for context modeling in context-aware systems. Journal of Systems and Software, 2013, 86, 2890-2905.	3.3	40
25	Frontotemporal dementia: insights into the biological underpinnings of disease through gene co-expression network analysis. Molecular Neurodegeneration, 2016, 11, 21.	4.4	39
26	Mutations in NKX6-2 Cause Progressive Spastic Ataxia and Hypomyelination. American Journal of Human Genetics, 2017, 100, 969-977.	2.6	38
27	Intelligent data analysis applied to debug complex software systems. Neurocomputing, 2009, 72, 2785-2795.	3.5	34
28	The phenotypic and molecular spectrum of PEHO syndrome and PEHO-like disorders. Brain, 2017, 140, e49-e49.	3.7	33
29	Investigation of Autosomal Genetic Sex Differences in Parkinson's Disease. Annals of Neurology, 2021, 90, 35-42.	2.8	29
30	Using cognitive agents in social simulations. Engineering Applications of Artificial Intelligence, 2011, 24, 1098-1109.	4.3	28
31	A complex event processing approach to perceive the vehicular context. Information Fusion, 2015, 21, 187-209.	11.7	27
32	Gene co-expression networks shed light into diseases of brain iron accumulation. Neurobiology of Disease, 2016, 87, 59-68.	2.1	24
33	Data mining agent conversations: A qualitative approach to multiagent systems analysis. Information Sciences, 2013, 230, 132-146.	4.0	23
34	Providing QoS Through Machine-Learning-Driven Adaptive Multimedia Applications. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1398-1411.	5.5	22
35	Regulatory sites for splicing in human basal ganglia are enriched for disease-relevant information. Nature Communications, 2020, 11, 1041.	5.8	22
36	A systemsâ€level analysis highlights microglial activation as a modifying factor in common epilepsies. Neuropathology and Applied Neurobiology, 2022, 48, .	1.8	22

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37	An Approach for Representing Sensor Data to Validate Alerts in Ambient Assisted Living. Sensors, 2012, 12, 6282-6306.	2.1	21
38	Strategies for avoiding preference profiling in agent-based e-commerce environments. Applied Intelligence, 2014, 40, 127-142.	3.3	16
39	CoExp: A Web Tool for the Exploitation of Co-expression Networks. Frontiers in Genetics, 2021, 12, 630187.	1.1	16
40	A model-driven approach for quality of context in pervasive systems. Computers and Electrical Engineering, 2016, 55, 39-58.	3.0	15
41	Tracking Causality by Visualization of Multi-Agent Interactions Using Causality Graphs. , 2007, , 190-204.		13
42	An adaptive learning fuzzy logic system for indoor localisation using Wi-Fi in Ambient Intelligent Environments. , 2012, , .		13
43	On the Behaviour of the TRSIM Model for Trust and Reputation. Lecture Notes in Computer Science, 2007, , 182-193.	1.0	13
44	Simulation of human behaviours for the validation of Ambient Intelligence services: A methodological approach. Journal of Ambient Intelligence and Smart Environments, 2012, 4, 163-181.	0.8	12
45	Infrastructure for Forensic Analysis of Multi-Agent Systems. Lecture Notes in Computer Science, 2009, , 168-183.	1.0	11
46	ASL expression in ALDH1A1+ neurons in the substantia nigra metabolically contributes to neurodegenerative phenotype. Human Genetics, 2021, 140, 1471-1485.	1.8	10
47	Toward a framework for the specification of hybrid fuzzy modeling. International Journal of Intelligent Systems, 2005, 20, 225-252.	3.3	9
48	Testing context-aware services based on smartphones by agent based social simulation. Journal of Ambient Intelligence and Smart Environments, 2013, 5, 311-330.	0.8	9
49	Towards semantic web-based management of security services. Annales Des Telecommunications/Annals of Telecommunications, 2008, 63, 183-193.	1.6	8
50	Generation of human computational models with machine learning. Information Sciences, 2015, 293, 97-114.	4.0	8
51	An integrated genomic approach to dissect the genetic landscape regulating the cell-to-cell transfer of Î±-synuclein. Cell Reports, 2021, 35, 109189.	2.9	8
52	A New Model for Trust and Reputation Management with an Ontology Based Approach for Similarity Between Tasks. Lecture Notes in Computer Science, 2006, , 172-183.	1.0	8
53	ASBO: Argumentation System Based on Ontologies. Lecture Notes in Computer Science, 2008, , 191-205.	1.0	8
54	Detecting Domestic Problems of Elderly People: Simple and Unobstrusive Sensors to Generate the Context of the Attended. Lecture Notes in Computer Science, 2009, , 819-826.	1.0	8

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55	PHAT: Physical Human Activity Tester. Lecture Notes in Computer Science, 2013, , 41-50.	1.0	7
56	Simulation Based Software Development for Smart Phones. Advances in Intelligent and Soft Computing, 2012, , 243-250.	0.2	6
57	POPEYE: providing collaborative services for ad hoc and spontaneous communities. Service Oriented Computing and Applications, 2009, 3, 25-45.	1.3	5
58	Robust design of multi-agent system interactions: A testing approach based on pattern matching. Engineering Applications of Artificial Intelligence, 2013, 26, 2093-2104.	4.3	5
59	Combining the real world with simulations for a robust testing of Ambient Intelligence services. Artificial Intelligence Review, 2014, 42, 723-746.	9.7	5
60	Engineering Ambient Intelligence Services by Means of MABS. Advances in Intelligent and Soft Computing, 2010, , 37-44.	0.2	4
61	Resource assignment in intelligent environments based on similarity, trust and reputation. Journal of Ambient Intelligence and Smart Environments, 2014, 6, 199-214.	0.8	4
62	Activity recommendation in intelligent campus environments based on the Eduroam federation. Journal of Ambient Intelligence and Smart Environments, 2016, 8, 35-46.	0.8	4
63	Modeling a Risk Detection System for Elderlyâ€™s Home-Care with a Network of Timed Automata. Lecture Notes in Computer Science, 2012, , 82-89.	1.0	4
64	A Proposal for Meta-learning through a MAS (Multi-agent System). Lecture Notes in Computer Science, 2001, , 226-233.	1.0	4
65	Construction and Debugging of a Multi-Agent Based Simulation to Study Ambient Intelligence Applications. Lecture Notes in Computer Science, 2009, , 1090-1097.	1.0	4
66	Leveraging omic features with F3UTER enables identification of unannotated 3â€™UTRs for synaptic genes. Nature Communications, 2022, 13, 2270.	5.8	4
67	CREATING CONTEXT-AWARE COLLABORATIVE WORKING ENVIRONMENTS. International Journal on Artificial Intelligence Tools, 2011, 20, 195-207.	0.7	3
68	Generation of human computational models with knowledge engineering. Engineering Applications of Artificial Intelligence, 2014, 35, 259-276.	4.3	3
69	Modeling multifunctionality of genes with secondary gene co-expression networks in human brain provides novel disease insights. Bioinformatics, 2021, 37, 2905-2911.	1.8	3
70	Neuro-Fuzzy Modeling Applied to GIS: a Case Study for Solar Radiation. Lecture Notes in Computer Science, 2003, , 401-408.	1.0	2
71	Chronobiology applied to the development of human behavior computational models. Journal of Ambient Intelligence and Smart Environments, 2012, 4, 369-389.	0.8	2
72	Using Semantic Causality Graphs to Validate MAS Models. Advances in Intelligent and Soft Computing, 2007, , 9-16.	0.2	2

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73	Infrastructure for Forensic Analysis of Multi-Agent Based Simulations. Lecture Notes in Computer Science, 2010, , 185-200.	1.0	2
74	Towards Socio-Chronobiological Computational Human Models. Lecture Notes in Computer Science, 2012, , 392-401.	1.0	2
75	Smoking is associated with age at disease onset in Parkinson's disease. Parkinsonism and Related Disorders, 2022, 97, 79-83.	1.1	2
76	Multivariate Feature Ranking With High-Dimensional Data for Classification Tasks. IEEE Access, 2022, 10, 60421-60437.	2.6	2
77	The Ingenias Project: Methods And Tool For Developing Multiagent Systems. IEEE Latin America Transactions, 2008, 6, 529-534.	1.2	1
78	Semantic description of multimedia contents for the optimization of the advertising impact on TV program grids. , 2010, , .		1
79	Social Simulation for Aml Systems Engineering. Lecture Notes in Computer Science, 2010, , 80-87.	1.0	1
80	Hybrid indoor location: Simultaneous zone and coordinates based location for AAL environments with 802.11 fingerprinting technology. Journal of Ambient Intelligence and Smart Environments, 2015, 7, 315-327.	0.8	1
81	Data Mining Applied to Irrigation Water Management. Lecture Notes in Computer Science, 2001, , 547-554.	1.0	1
82	On the Formalization of an Argumentation System for Software Agents. Lecture Notes in Computer Science, 2009, , 459-467.	1.0	1
83	Improving User-Perceived QoS in Mobile Ad Hoc Networks Using Decision Rules Induction. Lecture Notes in Computer Science, 2003, , 466-471.	1.0	1
84	Reasoning on a Semantic Web Based Context-Awareness Middleware. Advances in Intelligent and Soft Computing, 2010, , 147-155.	0.2	1
85	Distribution of a Reasoning Engine over Wireless Sensor Networks. Advances in Intelligent and Soft Computing, 2011, , 223-231.	0.2	1
86	Semantic Overlay Networks for Social Recommendation in P2P. Advances in Soft Computing, 0, , 274-283.	0.4	1
87	Towards semantic-aware management of security services in GT4. Multiagent and Grid Systems, 2007, 3, 369-379.	0.5	0
88	User Profiling Based on Similarity, Trust and Reputation. , 2012, , .		0
89	Introduction to the thematic issue. Journal of Ambient Intelligence and Smart Environments, 2013, 5, 3-4.	0.8	0
90	Building Your Own Infrastructure Based 802.11 Fingerprinting Service. , 2014, , .		0

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91	Adaptive P2P Multimedia Communication Using Hybrid Learning. Lecture Notes in Computer Science, 2004, , 116-125.	1.0	0
92	Distributed Contextual Information Storage Using Content-Centric Hash Tables. Lecture Notes in Computer Science, 2005, , 957-966.	1.0	0
93	A Trust and Reputation Model as Adaptive Mechanism for Multi-Agent Systems. Inteligencia Artificial, 2009, 13, .	0.5	0
94	Adaptability of the TRSIM Model to Some Changes in Agents Behaviour. Lecture Notes in Computer Science, 2008, , 403-417.	1.0	0