

Francesc Solsona

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

713
citations

840119

11
h-index

676716

22
g-index

90
all docs

90
docs citations

90
times ranked

716
citing authors

#	ARTICLE	IF	CITATIONS
1	Managing quality, supplier selection, and cold storage contracts in agrifood supply chain through stochastic optimization. <i>International Transactions in Operational Research</i> , 2023, 30, 1901-1930.	1.8	7
2	Automated detection of COVID-19 cough. <i>Biomedical Signal Processing and Control</i> , 2022, 71, 103175.	3.5	56
3	A Machine-Learning Model for Lung Age Forecasting by Analyzing Exhalations. <i>Sensors</i> , 2022, 22, 1106.	2.1	3
4	Detecting Bulbar Involvement in Patients with Amyotrophic Lateral Sclerosis Based on Phonatory and Time-Frequency Features. <i>Sensors</i> , 2022, 22, 1137.	2.1	11
5	A queuing theory model for fog computing. <i>Journal of Supercomputing</i> , 2022, 78, 11138-11155.	2.4	16
6	Autoscaling Pods on an On-Premise Kubernetes Infrastructure QoS-Aware. <i>IEEE Access</i> , 2022, 10, 33083-33094.	2.6	11
7	User behaviour models to forecast electricity consumption of residential customers based on smart metering data. <i>Energy Reports</i> , 2022, 8, 3680-3691.	2.5	23
8	Use of Multiple Correspondence Analysis and K-means to Explore Associations Between Risk Factors and Likelihood of Colorectal Cancer: Cross-sectional Study. <i>Journal of Medical Internet Research</i> , 2022, 24, e29056.	2.1	6
9	CatDetect, a framework for detecting Catalan tweets. <i>Multimedia Tools and Applications</i> , 2021, 80, 10657-10677.	2.6	0
10	Detection of Bulbar Involvement in Patients With Amyotrophic Lateral Sclerosis by Machine Learning Voice Analysis: Diagnostic Decision Support Development Study. <i>JMIR Medical Informatics</i> , 2021, 9, e21331.	1.3	10
11	The Use of Multiple Correspondence Analysis to Explore Associations Between Categories of Qualitative Variables and Cancer Incidence. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 3659-3667.	3.9	9
12	A new computational method to improve the synchronization of PLLs. <i>International Transactions on Electrical Energy Systems</i> , 2020, 30, e12373.	1.2	2
13	EasyModel 1.1: User-friendly Stochastic and Deterministic Simulations for Systems Biology Models. , 2020, , .		0
14	EasyModel: user-friendly tool for building and analysis of simple mathematical models in systems biology. <i>Bioinformatics</i> , 2019, 36, 976-977.	1.8	1
15	CatSent: a Catalan sentiment analysis website. <i>Multimedia Tools and Applications</i> , 2019, 78, 28137-28155.	2.6	4
16	CART, a Decision SLA Model for SaaS Providers to Keep QoS Regarding Availability and Performance. <i>IEEE Access</i> , 2019, 7, 38195-38204.	2.6	11
17	A scalable parallel implementation of the Cluster Benders Decomposition algorithm. <i>Cluster Computing</i> , 2019, 22, 877-886.	3.5	1
18	MetReS, an Efficient Database for Genomic Applications. <i>Journal of Computational Biology</i> , 2018, 25, 200-213.	0.8	1

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19	EMPOWERING, a Smart Big Data Framework for Sustainable Electricity Suppliers. IEEE Access, 2018, 6, 71132-71142.	2.6	7
20	Automatic Methods for Carotid Contrast-Enhanced Ultrasound Imaging Quantification of Adventitial Vasa Vasorum. Ultrasound in Medicine and Biology, 2018, 44, 2780-2792.	0.7	2
21	Rare Disease Discovery: An Optimized Disease Ranking System. IEEE Transactions on Industrial Informatics, 2017, 13, 1184-1192.	7.2	11
22	TControl: A mobile app to follow up tobacco-quitting patients. Computer Methods and Programs in Biomedicine, 2017, 142, 81-89.	2.6	10
23	Characterization of the CPAP-treated patient population in Catalonia. PLoS ONE, 2017, 12, e0185191.	1.1	20
24	BPcontrol. Applied Clinical Informatics, 2016, 07, 1120-1134.	0.8	10
25	FingerScanner: Embedding a Fingerprint Scanner in a Raspberry Pi. Sensors, 2016, 16, 220.	2.1	8
26	A production planning model considering uncertain demand using two-stage stochastic programming in a fresh vegetable supply chain context. SpringerPlus, 2016, 5, 839.	1.2	5
27	Identification of line-specific strategies for improving carotenoid production in synthetic maize through data-driven mathematical modeling. Plant Journal, 2016, 87, 455-471.	2.8	9
28	Computer-assisted initial diagnosis of rare diseases. PeerJ, 2016, 4, e2211.	0.9	24
29	CheNER: a tool for the identification of chemical entities and their classes in biomedical literature. Journal of Cheminformatics, 2015, 7, S15.	2.8	9
30	H-PC: a cloud computing tool for supervising hypertensive patients. Journal of Supercomputing, 2015, 71, 591-612.	2.4	11
31	An SLA and power-saving scheduling consolidation strategy for shared and heterogeneous clouds. Journal of Supercomputing, 2015, 71, 1817-1832.	2.4	10
32	DisCoP: A P2P Framework for Managing and Searching Computing Markets. Journal of Grid Computing, 2015, 13, 115-137.	2.5	3
33	Design of a P2P network that protects users'™ privacy in front of Web Search Engines. Computer Communications, 2015, 57, 37-49.	3.1	3
34	A Green Strategy for Federated and Heterogeneous Clouds with Communicating Workloads. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	3
35	Database Constraints Applied to Metabolic Pathway Reconstruction Tools. Scientific World Journal, The, 2014, 2014, 1-12.	0.8	1
36	CheNER: chemical named entity recognizer. Bioinformatics, 2014, 30, 1039-1040.	1.8	15

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37	MetReS: A Metabolic Reconstruction Database for Cloud Computing. , 2014, , .		0
38	MPI-based implementation of an enhanced algorithm to solve the LPN problem in a memory-constrained environment. Parallel Computing, 2014, 40, 100-112.	1.3	3
39	DisCoP2P: an efficient P2P computing overlay. Journal of Supercomputing, 2014, 68, 557-573.	2.4	1
40	PSysCal: a parallel tool for calibration of ecosystem models. Cluster Computing, 2014, 17, 271-279.	3.5	4
41	A queuing theory model for cloud computing. Journal of Supercomputing, 2014, 69, 492-507.	2.4	161
42	S-PC: An e-treatment application for management of smoke-quitting patients. Computer Methods and Programs in Biomedicine, 2014, 115, 33-45.	2.6	11
43	SLA-Aware Load Balancing in a Web-Based Cloud System over OpenStack. Lecture Notes in Computer Science, 2014, , 281-293.	1.0	8
44	Biblio-MetReS for user-friendly mining of genes and biological processes in scientific documents. PeerJ, 2014, 2, e276.	0.9	4
45	The cloud paradigm applied to e-Health. BMC Medical Informatics and Decision Making, 2013, 13, 35.	1.5	41
46	C2MS: Dynamic Monitoring and Management of Cloud Infrastructures. , 2013, , .		4
47	Cooperative scheduling mechanism for large-scale peer-to-peer computing systems. Journal of Network and Computer Applications, 2013, 36, 1620-1631.	5.8	14
48	State-based predictions with self-correction on Enterprise Desktop Grid environments. Journal of Parallel and Distributed Computing, 2013, 73, 777-789.	2.7	10
49	Analyzing locality over a P2P computing architecture. Journal of Network and Computer Applications, 2013, 36, 1610-1619.	5.8	12
50	P-Biblio-MetReS, a parallel data mining tool for the reconstruction of molecular networks. , 2013, , .		0
51	Incentive mechanism for scheduling jobs in a peer-to-peer computing system. Simulation Modelling Practice and Theory, 2012, 25, 36-55.	2.2	5
52	A Resilient Architecture Oriented to P2P Computing. , 2011, , .		1
53	Mapping MMOFPS over heterogeneous distributed systems. Journal of Supercomputing, 2011, 58, 341-348.	2.4	3
54	On/Off-Line Prediction Applied to Job Scheduling on Non-Dedicated NOWs. Journal of Computer Science and Technology, 2011, 26, 99-116.	0.9	2

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55	A user-friendly web portal for T-Coffee on supercomputers. BMC Bioinformatics, 2011, 12, 150.	1.2	5
56	Biblio-MetReS: A bibliometric network reconstruction application and server. BMC Bioinformatics, 2011, 12, 387.	1.2	11
57	A Computing Resource Discovery Mechanism over a P2P Tree Topology. Lecture Notes in Computer Science, 2011, , 366-379.	1.0	5
58	Combining Hilbert SFC and Bruijn Graphs for Searching Computing Markets in a P2P System. Lecture Notes in Computer Science, 2010, , 471-483.	1.0	3
59	A Formal Credit-Based Incentive Model for Sharing Computer Resources. Lecture Notes in Computer Science, 2010, , 497-509.	1.0	1
60	A New Reliable Proposal to Manage Dynamic Resources in a Computing P2P System. , 2009, , .		2
61	A New Credit-Based Incentive Mechanism for P2P Scheduling with User Modeling. , 2009, , .		6
62	Enhancing Prediction on Non-dedicated Clusters. Lecture Notes in Computer Science, 2008, , 233-242.	1.0	0
63	Cooperating CoScheduling: A Coscheduling Proposal Aimed at Non-Dedicated Heterogeneous NOWs. Journal of Computer Science and Technology, 2007, 22, 695-710.	0.9	3
64	Using Simulation, Historical and Hybrid Estimation Systems for Enhancing Job Scheduling on NOWs. , 2006, , .		1
65	CISNE: A New Integral Approach for Scheduling Parallel Applications on Non-dedicated Clusters. Lecture Notes in Computer Science, 2005, , 220-230.	1.0	11
66	A Space and Time Sharing Scheduling Approach for PVM Non-dedicated Clusters. Lecture Notes in Computer Science, 2005, , 379-387.	1.0	3
67	Coscheduling and Multiprogramming Level in a Non-dedicated Cluster. Lecture Notes in Computer Science, 2004, , 327-336.	1.0	8
68	Cooperating Coscheduling in a Non-dedicated Cluster. Lecture Notes in Computer Science, 2003, , 212-217.	1.0	5
69	Minimizing Paging Tradeoffs Applying Coscheduling Techniques in a Linux Cluster. Lecture Notes in Computer Science, 2003, , 593-607.	1.0	1
70	Multiprogramming Level of PVM Jobs in a Non-dedicated Linux NOW. Lecture Notes in Computer Science, 2003, , 577-585.	1.0	1
71	Adjusting Time Slices to Apply Coscheduling Techniques in a Non-dedicated NOW. Lecture Notes in Computer Science, 2002, , 234-239.	1.0	2
72	Adjusting the Lengths of Time Slices when Scheduling PVM Jobs with High Memory Requirements. Lecture Notes in Computer Science, 2002, , 156-164.	1.0	1

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73	Predictive Coscheduling Implementation in a Non-dedicated Linux Cluster. Lecture Notes in Computer Science, 2001, , 732-742.	1.0	5
74	MemTo: A Memory Monitoring Tool for a Linux Cluster. Lecture Notes in Computer Science, 2001, , 225-232.	1.0	1
75	Coscheduling under Memory Constraints in a NOW Environment. Lecture Notes in Computer Science, 2001, , 41-65.	1.0	6
76	Implementing and Analysing an Effective Explicit Coscheduling Algorithm on a NOW. Lecture Notes in Computer Science, 2001, , 75-88.	1.0	2
77	Implementing Explicit and Implicit Coscheduling in a PVM Environment. Lecture Notes in Computer Science, 2000, , 1165-1170.	1.0	4
78	Monito: A Communication Monitoring Tool for a PVM-Linux Environment. Lecture Notes in Computer Science, 2000, , 233-241.	1.0	0