

# Sebastián Garc a-Gal n

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

480  
citations

759233

12  
h-index

713466

21  
g-index

53  
all docs

53  
docs citations

53  
times ranked

460  
citing authors

#	ARTICLE	IF	CITATIONS
1	Knowledge Acquisition in Fuzzy-Rule-Based Systems With Particle-Swarm Optimization. IEEE Transactions on Fuzzy Systems, 2010, 18, 1083-1097.	9.8	74
2	Particle swarm optimization for biomass-fuelled systems with technical constraints. Engineering Applications of Artificial Intelligence, 2008, 21, 1389-1396.	8.1	54
3	Comparison of metaheuristic techniques to determine optimal placement of biomass power plants. Energy Conversion and Management, 2009, 50, 2020-2028.	9.2	39
4	Adaptive network-based fuzzy inference system vs. other classification algorithms for warped LPC-based speech/music discrimination. Engineering Applications of Artificial Intelligence, 2007, 20, 783-793.	8.1	29
5	Rules discovery in fuzzy classifier systems with PSO for scheduling in grid computational infrastructures. Applied Soft Computing Journal, 2015, 29, 424-435.	7.2	25
6	A Method for Particle Swarm Optimization and its Application in Location of Biomass Power Plants. International Journal of Green Energy, 2008, 5, 199-211.	3.8	24
7	Dynamic Voltage Frequency Scaling Simulator for Real Workflows Energy-Aware Management in Green Cloud Computing. PLoS ONE, 2017, 12, e0169803.	2.5	22
8	A fuzzy rule-based meta-scheduler with evolutionary learning for grid computing. Engineering Applications of Artificial Intelligence, 2010, 23, 1072-1082.	8.1	18
9	Fuzzy scheduling with swarm intelligence-based knowledge acquisition for grid computing. Engineering Applications of Artificial Intelligence, 2012, 25, 359-375.	8.1	18
10	Smart Containers Schedulers for Microservices Provision in Cloud-Fog-IoT Networks. Challenges and Opportunities. Sensors, 2020, 20, 1714.	3.8	18
11	Swarm Fuzzy Systems: Knowledge Acquisition in Fuzzy Systems and Its Applications in Grid Computing. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1791-1804.	5.7	14
12	A constrained tonal semi-supervised non-negative matrix factorization to classify presence/absence of wheezing in respiratory sounds. Applied Acoustics, 2020, 161, 107188.	3.3	12
13	Genetic fuzzy rule-based scheduling system for grid computing in virtual organizations. Soft Computing, 2011, 15, 1255-1271.	3.6	10
14	On Providing Quality of Service in Grid Computing through Multi-objective Swarm-Based Knowledge Acquisition in Fuzzy Schedulers. International Journal of Approximate Reasoning, 2012, 53, 228-247.	3.3	10
15	New speech/music discrimination approach based on fundamental frequency estimation. Multimedia Tools and Applications, 2009, 41, 253-286.	3.9	9
16	Real-time image texture analysis in quality management using grid computing: an application to the MDF manufacturing industry. International Journal of Advanced Manufacturing Technology, 2012, 58, 1217-1225.	3.0	9
17	Evolutionary Fuzzy Scheduler for Grid Computing. Lecture Notes in Computer Science, 2009, , 286-293.	1.3	9
18	Comparing open-source e-learning platforms from adaptivity point of view. , 2009, , .		8

#	ARTICLE	IF	CITATIONS
19	Two-stage cascaded classification approach based on genetic fuzzy learning for speech/music discrimination. Engineering Applications of Artificial Intelligence, 2010, 23, 151-159.	8.1	8
20	Audio Coding Improvement Using Evolutionary Speech/Music Discrimination. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	7
21	Genetic Fuzzy Rule-Based meta-scheduler for Grid computing. , 2010, , .		7
22	Monophonic and Polyphonic Wheezing Classification Based on Constrained Low-Rank Non-Negative Matrix Factorization. Sensors, 2021, 21, 1661.	3.8	7
23	Interactive tool for learning propagation in single-mode optical fibers in telecommunication engineering. Computer Applications in Engineering Education, 2019, 27, 789-813.	3.4	5
24	Fuzzy Rule-Based Systems for Optimizing Power Consumption in Data Centers. Advances in Intelligent Systems and Computing, 2014, , 301-308.	0.6	4
25	SPEECH/MUSIC DISCRIMINATION BASED ON WARPING TRANSFORMATION AND FUZZY LOGIC FOR INTELLIGENT AUDIO CODING. Applied Artificial Intelligence, 2009, 23, 427-442.	3.2	3
26	Relevance of Using Interpretability Indexes for the Design of Schedulers in Cloud Computing Systems. , 2020, , .		3
27	Computer-Aided Laser-Fiber Output Beam 3D Spatial and Angular Design. Symmetry, 2020, 12, 83.	2.2	3
28	An incremental algorithm based on multichannel non-negative matrix partial co-factorization for ambient denoising in auscultation. Applied Acoustics, 2021, 182, 108229.	3.3	3
29	Processing Astronomical Image Mosaic Workflows With An Expert Broker In Cloud Computing. Image Processing & Communications, 2014, 19, 5-20.	0.3	3
30	New speech/music discrimination approach based on warping transformation and ANFIS. Journal of New Music Research, 2006, 35, 237-247.	0.8	2
31	Expert system for intelligent audio codification based in speech/music discrimination. , 2006, , .		2
32	An Expert Fuzzy Grid Scheduler for Virtual Organizations. , 2008, , .		2
33	KASIA approach vs. Differential Evolution in Fuzzy Rule-Based meta-schedulers for Grid computing. , 2011, , .		2
34	Improving Expert Meta-schedulers for Grid Computing through Weighted Rules Evolution. Lecture Notes in Computer Science, 2011, , 204-211.	1.3	2
35	Parallel multichannel blind source separation using a spatial covariance model and nonnegative matrix factorization. Journal of Supercomputing, 2021, 77, 12143-12156.	3.6	2
36	Genetic Algorithm for Scheduling Routes in Public Transport. Advances in Intelligent Systems and Computing, 2014, , 399-406.	0.6	2

#	ARTICLE	IF	CITATIONS
37	The possibility of equalising the transmission properties of networks described by chordal rings. , 2021, , .		2
38	A Method to Minimize Distributed PSO Algorithm Execution Time in Grid Computer Environment. Lecture Notes in Computer Science, 2009, , 478-487.	1.3	1
39	Energy-aware scheduling in clouc computing systems. , 2017, , .		1
40	A score identification parallel system based on audio-to-score alignment. Journal of Supercomputing, 2020, 76, 8830-8844.	3.6	1
41	Gaussian Mixture Models vs. Fuzzy Rule-Based Systems for Adaptive Meta-scheduling in Grid/Cloud Computing. Advances in Intelligent Systems and Computing, 2012, , 295-304.	0.6	1
42	Analysis and Real Implementation of a Cloud Infrastructure for Computing Laboratories Virtualization. Advances in Intelligent Systems and Computing, 2016, , 275-280.	0.6	1
43	Acceleration of Genome Sequencing with Intelligent Cloud Brokers. Advances in Intelligent Systems and Computing, 2018, , 133-140.	0.6	1
44	Sustainability-based Framework for Virtual Machines Migration Among Cloud Data Centers. , 2021, , .		1
45	A platform designed to motivate the autonomous learning about computer architectures. , 2009, , .		0
46	A wiki as a common framework for promoting autonomous learning among university students. International Journal of Innovation and Learning, 2012, 12, 54.	0.4	0
47	Interoperability in large scale cyber-physical systems. , 2012, , .		0
48	Herramienta de coordinaci3n de titulaciones en la E.P.S. Linares. , 2019, , .		0
49	Specific Parameter-Free Global Optimization to Speed Up Setting and Avoid Factors Interactions. Computing and Informatics, 2019, 38, 265-290.	0.7	0
50	Interpretable Fuzzy Rule-Based System for Fatal Ventricular Arrhythmia Risk Level Estimation due to QT-Prolonging Treatments<sup>*</sup>. , 2021, , .		0