

Oscar Montiel

List of Publications by Year in descending order

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93
papers

2,286
citations

430874

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233421

45
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103
all docs

103
docs citations

103
times ranked

1791
citing authors

#	ARTICLE	IF	CITATIONS
1	Path planning for autonomous mobile robot navigation with ant colony optimization and fuzzy cost function evaluation. Applied Soft Computing Journal, 2009, 9, 1102-1110.	7.2	334
2	Mobile robot path planning using membrane evolutionary artificial potential field. Applied Soft Computing Journal, 2019, 77, 236-251.	7.2	268
3	Path planning for mobile robots using Bacterial Potential Field for avoiding static and dynamic obstacles. Expert Systems With Applications, 2015, 42, 5177-5191.	7.6	265
4	Experimental study of intelligent controllers under uncertainty using type-1 and type-2 fuzzy logic. Information Sciences, 2007, 177, 2023-2048.	6.9	226
5	Optimization of interval type-2 fuzzy logic controllers using evolutionary algorithms. Soft Computing, 2011, 15, 1145-1160.	3.6	117
6	Optimal Path Planning Generation for Mobile Robots using Parallel Evolutionary Artificial Potential Field. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 79, 237-257.	3.4	98
7	Embedding a high speed interval type-2 fuzzy controller for a real plant into an FPGA. Applied Soft Computing Journal, 2012, 12, 988-998.	7.2	92
8	Hybrid Path Planning Algorithm Based on Membrane Pseudo-Bacterial Potential Field for Autonomous Mobile Robots. IEEE Access, 2019, 7, 156787-156803.	4.2	82
9	Human evolutionary model: A new approach to optimization. Information Sciences, 2007, 177, 2075-2098.	6.9	81
10	An Efficient Computational Method to Implement Type-2 Fuzzy Logic in Control Applications. , 2007, , 45-52.		74
11	Performance of a Simple Tuned Fuzzy Controller and a PID Controller on a DC Motor. , 2007, , .		53
12	A Review of Quantum-Inspired Metaheuristics: Going From Classical Computers to Real Quantum Computers. IEEE Access, 2020, 8, 814-838.	4.2	52
13	Ant colony test center for planning autonomous mobile robot navigation. Computer Applications in Engineering Education, 2013, 21, 214-229.	3.4	31
14	Pseudo-Bacterial Potential Field Based Path Planner for Autonomous Mobile Robot Navigation. International Journal of Advanced Robotic Systems, 2015, 12, 81.	2.1	28
15	Application of NSGA-II algorithm to the spectrum assignment problem in spectrum sharing networks. Applied Soft Computing Journal, 2016, 39, 188-198.	7.2	28
16	Quantum-Inspired Acromyrmex Evolutionary Algorithm. Scientific Reports, 2019, 9, 12181.	3.3	24
17	Evaluation Method of Deep Learning-Based Embedded Systems for Traffic Sign Detection. IEEE Access, 2021, 9, 101217-101238.	4.2	24
18	The evolutionary learning rule for system identification. Applied Soft Computing Journal, 2003, 3, 343-352.	7.2	20

#	ARTICLE	IF	CITATIONS
19	Modeling and Simulation of the Defuzzification Stage of a Type-2 Fuzzy Controller Using the Xilinx System Generator and Simulink. Studies in Computational Intelligence, 2009, , 309-325.	0.9	19
20	A New Evolutionary Method with a Hybrid Approach Combining Particle Swarm Optimization and Genetic Algorithms using Fuzzy Logic for Decision Making. , 2008, , .		16
21	Optimal Path Planning for Autonomous Mobile Robot Navigation Using Ant Colony Optimization and a Fuzzy Cost Function Evaluation. , 2007, , 790-798.		15
22	Simple tuned fuzzy controller embedded into an FPGA. , 2008, , .		14
23	Design and Simulation of the Type-2 Fuzzification Stage: Using Active Membership Functions. Studies in Computational Intelligence, 2009, , 273-293.	0.9	14
24	Application of a breeder genetic algorithm for finite impulse filter optimization. Information Sciences, 2004, 161, 139-158.	6.9	12
25	Mediative fuzzy logic: a new approach for contradictory knowledge management. Soft Computing, 2007, 12, 251-256.	3.6	12
26	Methodology to Optimize Manufacturing Time for a CNC Using a High Performance Implementation of ACO. International Journal of Advanced Robotic Systems, 2012, 9, 121.	2.1	12
27	Design and Simulation of the Fuzzification Stage through the Xilinx System Generator. Studies in Computational Intelligence, 2008, , 297-305.	0.9	12
28	Comparison between Ant Colony and Genetic Algorithms for Fuzzy System Optimization. Studies in Computational Intelligence, 2008, , 71-86.	0.9	11
29	MODELLING AND SIMULATION OF THE DEFUZZIFICATION STAGE OF A TYPE-2 FUZZY CONTROLLER USING VHDL CODE. Control and Intelligent Systems, 2011, 39, .	0.3	11
30	Methodology to Test and Validate a VHDL Inference Engine of a Type-2 FIS, through the Xilinx System Generator. Studies in Computational Intelligence, 2009, , 295-308.	0.9	10
31	Development of an embedded simple tuned fuzzy controller. , 2008, , .		9
32	Methodology to Test and Validate a VHDL Inference Engine through the Xilinx System Generator. Studies in Computational Intelligence, 2008, , 325-331.	0.9	9
33	Reducing the size of traveling salesman problems using vaccination by fuzzy selector. Expert Systems With Applications, 2016, 49, 20-30.	7.6	8
34	High Performance Parallel Programming of a GA Using Multi-core Technology. Studies in Computational Intelligence, 2008, , 307-314.	0.9	8
35	Evolutionary optimization of interval type-2 membership functions using the Human Evolutionary Model. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	7
36	Modeling and Simulation of the Defuzzification Stage Using Xilinx System Generator and Simulink. Studies in Computational Intelligence, 2008, , 333-343.	0.9	7

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37	Combinatorial complexity problem reduction by the use of artificial vaccines. Expert Systems With Applications, 2013, 40, 1871-1879.	7.6	7
38	Black box evolutionary mathematical modeling applied to linear systems. International Journal of Intelligent Systems, 2005, 20, 293-311.	5.7	6
39	Quantum inspired algorithm for microcalcification detection in mammograms. Information Sciences, 2019, 480, 305-323.	6.9	5
40	Design and Implementation of a Hybrid Fuzzy Controller Using VHDL. Studies in Computational Intelligence, 2008, , 437-446.	0.9	5
41	Efficient Stereoscopic Video Matching and Map Reconstruction for a Wheeled Mobile Robot. International Journal of Advanced Robotic Systems, 2012, 9, 120.	2.1	5
42	Integrated Development Platform for Intelligent Control based on Type-2 Fuzzy Logic. , 0, , .		4
43	Designing High-Performance Fuzzy Controllers Combining IP Cores and Soft Processors. Advances in Fuzzy Systems, 2012, 2012, 1-11.	0.9	4
44	Path Planning Using Clonal Selection Algorithm. Studies in Computational Intelligence, 2013, , 303-312.	0.9	4
45	Reducing the Size of Combinatorial Optimization Problems Using the Operator Vaccine by Fuzzy Selector with Adaptive Heuristics. Mathematical Problems in Engineering, 2015, 2015, 1-14.	1.1	4
46	Path Following Fuzzy System for a Nonholonomic Mobile Robot Based on Frontal Camera Information. Studies in Computational Intelligence, 2018, , 223-240.	0.9	4
47	Multicriteria Evaluation of Deep Neural Networks for Semantic Segmentation of Mammographies. Axioms, 2021, 10, 180.	1.9	4
48	Mediative Fuzzy Logic: A New Approach for Contradictory Knowledge Management. , 2008, , 135-149.		4
49	¿Lo volverá a hacer? Revisitando la implementación del paradigma del emprendimiento en una universidad de México. Retos: Revista De Ciencias De La Administración Y Economía, 2017, 7, 147.	1.3	4
50	Application of a breeder genetic algorithm for system identification in an adaptive finite impulse response filter. , 0, , .		3
51	Methodology to Design Fuzzy Logic Controller for Soft-Core Embedded into FPGA. Studies in Computational Intelligence, 2013, , 89-96.	0.9	3
52	Obstacle recognition for path planning in autonomous mobile robots. , 2016, , .		3
53	Pose Estimation in Noncontinuous Video Sequences Using Evolutionary Correlation Filtering. Mathematical Problems in Engineering, 2018, 2018, 1-13.	1.1	3
54	Acceleration of Path Planning Computation Based on Evolutionary Artificial Potential Field for Non-static Environments. Studies in Computational Intelligence, 2020, , 271-297.	0.9	3

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55	An Admission Control and Channel Allocation Algorithm Based on Particle Swarm Optimization for Cognitive Cellular Networks. Studies in Computational Intelligence, 2014, , 151-162.	0.9	3
56	Geo-Navigation for a Mobile Robot and Obstacle Avoidance Using Fuzzy Controllers. Studies in Computational Intelligence, 2014, , 647-669.	0.9	3
57	High Performance Architecture for NSGA-II. Studies in Computational Intelligence, 2013, , 451-461.	0.9	3
58	WLAN Cell Handoff Latency Abatement Using an FPGA Fuzzy Logic Algorithm Implementation. Advances in Fuzzy Systems, 2012, 2012, 1-10.	0.9	2
59	High Performance Fuzzy Systems for Real World Problems. Advances in Fuzzy Systems, 2012, 2012, 1-2.	0.9	2
60	Design and Acceleration of a Quantum Genetic Algorithm Through the Matlab GPU Library. Studies in Computational Intelligence, 2015, , 333-345.	0.9	2
61	Environment Recognition for Path Generation in Autonomous Mobile Robots. Studies in Computational Intelligence, 2020, , 273-288.	0.9	2
62	Multi-objective Evaluation of Deep Learning Based Semantic Segmentation for Autonomous Driving Systems. Studies in Computational Intelligence, 2020, , 299-311.	0.9	2
63	Estimation of Population Pharmacokinetic Model Parameters Using a Genetic Algorithm. Advances in Intelligent Systems and Computing, 2018, , 214-221.	0.6	2
64	Embedding a KM Type Reducer for High Speed Fuzzy Controller into an FPGA. Advances in Intelligent and Soft Computing, 2010, , 217-228.	0.2	2
65	The Evolutionary Learning Rule in System Identification. , 2005, , 195-212.		1
66	Application of a breeder genetic algorithm for filter optimization. Natural Computing, 2005, 4, 11-37.	3.0	1
67	Evolving Embedded Fuzzy Controllers. , 2015, , 1451-1477.		1
68	An Optimized GPU Implementation for a Path Planning Algorithm Based on Parallel Pseudo-bacterial Potential Field. Studies in Computational Intelligence, 2017, , 477-492.	0.9	1
69	Fuzzy Evaluation of Pharmacokinetic Models. Computational Intelligence and Neuroscience, 2018, 2018, 1-10.	1.7	1
70	Visual environment recognition for robot path planning using template matched filters. , 2017, , .		1
71	Mediative Fuzzy Logic for Controlling Population Size in Evolutionary Algorithms. Intelligent Information Management, 2009, 01, 108-119.	0.5	1
72	Intelligent Method for Contrast Enhancement in Digital Video. Studies in Computational Intelligence, 2010, , 401-422.	0.9	1

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73	Embedding a Fuzzy Locomotion Pose Controller for a Wheeled Mobile Robot into an FPGA. Studies in Computational Intelligence, 2010, , 465-481.	0.9	1
74	Using Immunogenetic Algorithms for Solving Combinatorial Optimization Problems. Studies in Computational Intelligence, 2013, , 273-288.	0.9	1
75	Classification of Encephalographic Signals using Artificial Neural Networks. Computacion Y Sistemas, 2015, 19, .	0.3	1
76	Design and Implementation of Intelligent Controllers in Soft Processors for the Walking of a Biped Robot. Computacion Y Sistemas, 2018, 22, .	0.3	1
77	Mediative Fuzzy Logic: A Novel Approach for Handling Contradictory Knowledge. , 2007, , 75-91.		1
78	Testing and Evaluating the Single Objective Intelligent Evolutionary Algorithm through a Graphic Interface. , 2007, , .		0
79	Vision Based Obstacle Detection Module for a Wheeled Mobile Robot. , 2010, , .		0
80	Method for Obstacle Detection and Map Reconfiguration in Wheeled Mobile Robotics. Studies in Computational Intelligence, 2010, , 423-441.	0.9	0
81	Estimation of Population Pharmacokinetic Parameters Using a Genetic Algorithm. Studies in Computational Intelligence, 2017, , 493-503.	0.9	0
82	A Breeder Genetic Algorithm for Adaptive Filter Optimization. , 2002, , 145-155.		0
83	Design of Fuzzy Controllers for a Hexapod Robot. Studies in Computational Intelligence, 2014, , 709-721.	0.9	0
84	MLP for Electroencephalographic Signals Classification Using Different Adaptive Learning Algorithm. Studies in Computational Intelligence, 2014, , 369-380.	0.9	0
85	Obtaining Pharmacokinetic Population Models Using a Genetic Algorithm Approach. Studies in Computational Intelligence, 2015, , 305-317.	0.9	0
86	Admission Control and Channel Allocation for Dynamic Spectrum Access using Multi-objective Optimization. Computacion Y Sistemas, 2015, 19, .	0.3	0
87	Identification of the Workspace of a Hexapod Mobile Robot Using Multobjective Optimization. Computacion Y Sistemas, 2017, 21, .	0.3	0
88	Cellular Automata Enhanced Quantum Inspired Edge Detection. Advances in Intelligent Systems and Computing, 2018, , 141-146.	0.6	0
89	Speeding Up Quantum Genetic Algorithms in Matlab Through the Quack_GPU V1. Advances in Intelligent Systems and Computing, 2018, , 156-161.	0.6	0
90	Evolutionary Modeling Using A Wiener Model. , 2006, , 619-632.		0

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91	Evolutionary Optimization of a Wiener Model. , 2007, , 43-58.		0
92	Scalability Potential of Multi-core Architecture in a Neuro-Fuzzy System. Studies in Computational Intelligence, 2008, , 315-323.	0.9	0
93	Quantum-inspired evolutionary algorithms on continuous space multiobjective problems. Soft Computing, 0, , 1.	3.6	0