

Oscar Montiel

List of Publications by Year in descending order

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93
papers

2,286
citations

489802

18
h-index

263392

45
g-index

103
all docs

103
docs citations

103
times ranked

1998
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation Method of Deep Learning-Based Embedded Systems for Traffic Sign Detection. IEEE Access, 2021, 9, 101217-101238.	2.6	24
2	Multicriteria Evaluation of Deep Neural Networks for Semantic Segmentation of Mammographies. Axioms, 2021, 10, 180.	0.9	4
3	A Review of Quantum-Inspired Metaheuristics: Going From Classical Computers to Real Quantum Computers. IEEE Access, 2020, 8, 814-838.	2.6	52
4	Environment Recognition for Path Generation in Autonomous Mobile Robots. Studies in Computational Intelligence, 2020, , 273-288.	0.7	2
5	Acceleration of Path Planning Computation Based on Evolutionary Artificial Potential Field for Non-static Environments. Studies in Computational Intelligence, 2020, , 271-297.	0.7	3
6	Multi-objective Evaluation of Deep Learning Based Semantic Segmentation for Autonomous Driving Systems. Studies in Computational Intelligence, 2020, , 299-311.	0.7	2
7	Hybrid Path Planning Algorithm Based on Membrane Pseudo-Bacterial Potential Field for Autonomous Mobile Robots. IEEE Access, 2019, 7, 156787-156803.	2.6	82
8	Quantum-Inspired Acromyrmex Evolutionary Algorithm. Scientific Reports, 2019, 9, 12181.	1.6	24
9	Mobile robot path planning using membrane evolutionary artificial potential field. Applied Soft Computing Journal, 2019, 77, 236-251.	4.1	268
10	Quantum inspired algorithm for microcalcification detection in mammograms. Information Sciences, 2019, 480, 305-323.	4.0	5
11	Path Following Fuzzy System for a Nonholonomic Mobile Robot Based on Frontal Camera Information. Studies in Computational Intelligence, 2018, , 223-240.	0.7	4
12	Pose Estimation in Noncontinuous Video Sequences Using Evolutionary Correlation Filtering. Mathematical Problems in Engineering, 2018, 2018, 1-13.	0.6	3
13	Fuzzy Evaluation of Pharmacokinetic Models. Computational Intelligence and Neuroscience, 2018, 2018, 1-10.	1.1	1
14	Estimation of Population Pharmacokinetic Model Parameters Using a Genetic Algorithm. Advances in Intelligent Systems and Computing, 2018, , 214-221.	0.5	2
15	Cellular Automata Enhanced Quantum Inspired Edge Detection. Advances in Intelligent Systems and Computing, 2018, , 141-146.	0.5	0
16	Speeding Up Quantum Genetic Algorithms in Matlab Through the Quack_GPU V1. Advances in Intelligent Systems and Computing, 2018, , 156-161.	0.5	0
17	Design and Implementation of Intelligent Controllers in Soft Processors for the Walking of a Biped Robot. Computacion Y Sistemas, 2018, 22, .	0.2	1
18	An Optimized GPU Implementation for a Path Planning Algorithm Based on Parallel Pseudo-bacterial Potential Field. Studies in Computational Intelligence, 2017, , 477-492.	0.7	1

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19	Estimation of Population Pharmacokinetic Parameters Using a Genetic Algorithm. Studies in Computational Intelligence, 2017, , 493-503.	0.7	0
20	Visual environment recognition for robot path planning using template matched filters. , 2017, , .		1
21	Identification of the Workspace of a Hexapod Mobile Robot Using Multobjective Optimization. Computacion Y Sistemas, 2017, 21, .	0.2	0
22	¿Lo volverÁa a hacer? Revisitando la implementaci3n del paradigma del emprendimiento en una universidad de MÃ©xico. Retos: Revista De Ciencias De La Administraci3n Y EconomÃa, 2017, 7, 147.	0.5	4
23	Obstacle recognition for path planning in autonomous mobile robots. , 2016, , .		3
24	Reducing the size of traveling salesman problems using vaccination by fuzzy selector. Expert Systems With Applications, 2016, 49, 20-30.	4.4	8
25	Application of NSGA-II algorithm to the spectrum assignment problem in spectrum sharing networks. Applied Soft Computing Journal, 2016, 39, 188-198.	4.1	28
26	Pseudo-Bacterial Potential Field Based Path Planner for Autonomous Mobile Robot Navigation. International Journal of Advanced Robotic Systems, 2015, 12, 81.	1.3	28
27	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.	0.6	4
28	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.	2.0	98
29	Design and Acceleration of a Quantum Genetic Algorithm Through the Matlab GPU Library. Studies in Computational Intelligence, 2015, , 333-345.	0.7	2
30	Evolving Embedded Fuzzy Controllers. , 2015, , 1451-1477.		1
31	Path planning for mobile robots using Bacterial Potential Field for avoiding static and dynamic obstacles. Expert Systems With Applications, 2015, 42, 5177-5191.	4.4	265
32	Obtaining Pharmacokinetic Population Models Using a Genetic Algorithm Approach. Studies in Computational Intelligence, 2015, , 305-317.	0.7	0
33	Classification of Encephalographic Signals using Artificial Neural Networks. Computacion Y Sistemas, 2015, 19, .	0.2	1
34	Admission Control and Channel Allocation for Dynamic Spectrum Access using Multi-objective Optimization. Computacion Y Sistemas, 2015, 19, .	0.2	0
35	An Admission Control and Channel Allocation Algorithm Based on Particle Swarm Optimization for Cognitive Cellular Networks. Studies in Computational Intelligence, 2014, , 151-162.	0.7	3
36	Geo-Navigation for a Mobile Robot and Obstacle Avoidance Using Fuzzy Controllers. Studies in Computational Intelligence, 2014, , 647-669.	0.7	3

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37	Design of Fuzzy Controllers for a Hexapod Robot. Studies in Computational Intelligence, 2014, , 709-721.	0.7	0
38	MLP for Electroencephalographic Signals Classification Using Different Adaptive Learning Algorithm. Studies in Computational Intelligence, 2014, , 369-380.	0.7	0
39	Ant colony test center for planning autonomous mobile robot navigation. Computer Applications in Engineering Education, 2013, 21, 214-229.	2.2	31
40	Combinatorial complexity problem reduction by the use of artificial vaccines. Expert Systems With Applications, 2013, 40, 1871-1879.	4.4	7
41	Path Planning Using Clonal Selection Algorithm. Studies in Computational Intelligence, 2013, , 303-312.	0.7	4
42	Methodology to Design Fuzzy Logic Controller for Soft-Core Embedded into FPGA. Studies in Computational Intelligence, 2013, , 89-96.	0.7	3
43	High Performance Architecture for NSGA-II. Studies in Computational Intelligence, 2013, , 451-461.	0.7	3
44	Using Immunogenetic Algorithms for Solving Combinatorial Optimization Problems. Studies in Computational Intelligence, 2013, , 273-288.	0.7	1
45	Methodology to Optimize Manufacturing Time for a CNC Using a High Performance Implementation of ACO. International Journal of Advanced Robotic Systems, 2012, 9, 121.	1.3	12
46	WLAN Cell Handoff Latency Abatement Using an FPGA Fuzzy Logic Algorithm Implementation. Advances in Fuzzy Systems, 2012, 2012, 1-10.	0.6	2
47	High Performance Fuzzy Systems for Real World Problems. Advances in Fuzzy Systems, 2012, 2012, 1-2.	0.6	2
48	Designing High-Performance Fuzzy Controllers Combining IP Cores and Soft Processors. Advances in Fuzzy Systems, 2012, 2012, 1-11.	0.6	4
49	Embedding a high speed interval type-2 fuzzy controller for a real plant into an FPGA. Applied Soft Computing Journal, 2012, 12, 988-998.	4.1	92
50	Efficient Stereoscopic Video Matching and Map Reconstruction for a Wheeled Mobile Robot. International Journal of Advanced Robotic Systems, 2012, 9, 120.	1.3	5
51	Optimization of interval type-2 fuzzy logic controllers using evolutionary algorithms. Soft Computing, 2011, 15, 1145-1160.	2.1	117
52	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
53	Vision Based Obstacle Detection Module for a Wheeled Mobile Robot. , 2010, , .		0
54	Method for Obstacle Detection and Map Reconfiguration in Wheeled Mobile Robotics. Studies in Computational Intelligence, 2010, , 423-441.	0.7	0

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55	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
56	Intelligent Method for Contrast Enhancement in Digital Video. Studies in Computational Intelligence, 2010, , 401-422.	0.7	1
57	Embedding a Fuzzy Locomotion Pose Controller for a Wheeled Mobile Robot into an FPGA. Studies in Computational Intelligence, 2010, , 465-481.	0.7	1
58	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.	0.7	19
59	Design and Simulation of the Type-2 Fuzzification Stage: Using Active Membership Functions. Studies in Computational Intelligence, 2009, , 273-293.	0.7	14
60	Path planning for autonomous mobile robot navigation with ant colony optimization and fuzzy cost function evaluation. Applied Soft Computing Journal, 2009, 9, 1102-1110.	4.1	334
61	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.	0.7	10
62	Mediative Fuzzy Logic for Controlling Population Size in Evolutionary Algorithms. Intelligent Information Management, 2009, 01, 108-119.	0.3	1
63	Comparison between Ant Colony and Genetic Algorithms for Fuzzy System Optimization. Studies in Computational Intelligence, 2008, , 71-86.	0.7	11
64	Simple tuned fuzzy controller embedded into an FPGA. , 2008, , .		14
65	Modeling and Simulation of the Defuzzification Stage Using Xilinx System Generator and Simulink. Studies in Computational Intelligence, 2008, , 333-343.	0.7	7
66	A New Evolutionary Method with a Hybrid Approach Combining Particle Swarm Optimization and Genetic Algorithms using Fuzzy Logic for Decision Making. , 2008, , .		16
67	Development of an embedded simple tuned fuzzy controller. , 2008, , .		9
68	Design and Simulation of the Fuzzification Stage through the Xilinx System Generator. Studies in Computational Intelligence, 2008, , 297-305.	0.7	12
69	High Performance Parallel Programming of a GA Using Multi-core Technology. Studies in Computational Intelligence, 2008, , 307-314.	0.7	8
70	Methodology to Test and Validate a VHDL Inference Engine through the Xilinx System Generator. Studies in Computational Intelligence, 2008, , 325-331.	0.7	9
71	Design and Implementation of a Hybrid Fuzzy Controller Using VHDL. Studies in Computational Intelligence, 2008, , 437-446.	0.7	5
72	Mediative Fuzzy Logic: A New Approach for Contradictory Knowledge Management. , 2008, , 135-149.		4

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73	Scalability Potential of Multi-core Architecture in a Neuro-Fuzzy System. Studies in Computational Intelligence, 2008, , 315-323.	0.7	0
74	Optimal Path Planning for Autonomous Mobile Robot Navigation Using Ant Colony Optimization and a Fuzzy Cost Function Evaluation. , 2007, , 790-798.		15
75	An Efficient Computational Method to Implement Type-2 Fuzzy Logic in Control Applications. , 2007, , 45-52.		74
76	Performance of a Simple Tuned Fuzzy Controller and a PID Controller on a DC Motor. , 2007, , .		53
77	Evolutionary optimization of interval type-2 membership functions using the Human Evolutionary Model. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	7
78	Testing and Evaluating the Single Objective Intelligent Evolutionary Algorithm through a Graphic Interface. , 2007, , .		0
79	Human evolutionary model: A new approach to optimization. Information Sciences, 2007, 177, 2075-2098.	4.0	81
80	Experimental study of intelligent controllers under uncertainty using type-1 and type-2 fuzzy logic. Information Sciences, 2007, 177, 2023-2048.	4.0	226
81	Mediative fuzzy logic: a new approach for contradictory knowledge management. Soft Computing, 2007, 12, 251-256.	2.1	12
82	Evolutionary Optimization of a Wiener Model. , 2007, , 43-58.		0
83	Mediative Fuzzy Logic: A Novel Approach for Handling Contradictory Knowledge. , 2007, , 75-91.		1
84	Evolutionary Modeling Using A Wiener Model. , 2006, , 619-632.		0
85	The Evolutionary Learning Rule in System Identification. , 2005, , 195-212.		1
86	Black box evolutionary mathematical modeling applied to linear systems. International Journal of Intelligent Systems, 2005, 20, 293-311.	3.3	6
87	Application of a breeder genetic algorithm for filter optimization. Natural Computing, 2005, 4, 11-37.	1.8	1
88	Application of a breeder genetic algorithm for finite impulse filter optimization. Information Sciences, 2004, 161, 139-158.	4.0	12
89	The evolutionary learning rule for system identification. Applied Soft Computing Journal, 2003, 3, 343-352.	4.1	20
90	A Breeder Genetic Algorithm for Adaptive Filter Optimization. , 2002, , 145-155.		0

#	ARTICLE	IF	CITATIONS
91	Application of a breeder genetic algorithm for system identification in an adaptive finite impulse response filter. , 0, , .		3
92	Integrated Development Platform for Intelligent Control based on Type-2 Fuzzy Logic. , 0, , .		4
93	Quantum-inspired evolutionary algorithms on continuous space multiobjective problems. Soft Computing, 0, , 1.	2.1	0