Javier J Sanchez-Medina

List of Publications by Year
in descending order

62 papers	696 citations	759233 12 h-index	642732 23 g-index
66 all docs	66 docs citations	66 times ranked	753 citing authors

#	Article	IF	Citations
1	Traffic signal optimization in "la almozara" district in saragossa under congestion conditions, using genetic algorithms, traffic microsimulation, and cluster computing. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 132-141.	8.0	120
2	Applying a Traffic Lights Evolutionary Optimization Technique to a Real Case: â€œLas Ramblasâ€•Area in Santa Cruz de Tenerife. IEEE Transactions on Evolutionary Computation, 2008, 12, 25-40.	10.0	69
3	Suspended traffic lights detection and distance estimation using color features. , 2012, , .		59
4	Micro flip teaching â€' An innovative model to promote the active involvement of students. Computers in Human Behavior, 2017, 72, 713-723.	8.5	59
5	Morphological Convolutional Neural Network Architecture for Digit Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2876-2885.	11.3	58
6	Bioinspired Computational Intelligence and Transportation Systems: A Long Road Ahead. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 466-495.	8.0	38
7	Unsupervised Learning in Reservoir Computing for EEG-Based Emotion Recognition. IEEE Transactions on Affective Computing, 2022, 13, 972-984.	8.3	28
8	From Data to Actions in Intelligent Transportation Systems: A Prescription of Functional Requirements for Model Actionability. Sensors, 2021, 21, 1121.	3.8	23
9	Computational Intelligence in the hospitality industry: A systematic literature review and a prospect of challenges. Applied Soft Computing Journal, 2021, 102, 107082.	7.2	23
10	Genetic algorithms and cellular automata: a new architecture for traffic light cycles optimization. , 0, , .		20
11	Optimized Echo State Network with Intrinsic Plasticity for EEG-Based Emotion Recognition. Lecture Notes in Computer Science, 2017, , 718-727.	1.3	18
12	A Combined Voxel and Particle Filter-Based Approach for Fast Obstacle Detection and Tracking in Automotive Applications. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 1824-1834.	8.0	16
13	PSO-Based Adaptive Hierarchical Interval Type-2 Fuzzy Knowledge Representation System (PSO-AHIT2FKRS) for Travel Route Guidance. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 804-818.	8.0	16
14	An Efficient and Scalable Simulation Model for Autonomous Vehicles With Economical Hardware. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1718-1732.	8.0	15
15	Safe and Reliable Path Planning for the Autonomous Vehicle Verdino. IEEE Intelligent Transportation Systems Magazine, 2016, 8, 22-32.	3.8	12
16	Assessment of Economic Impacts of Vehicle Miles Traveled Fee for Passenger Vehicles in Nevada. Transportation Research Record, 2014, 2450, 26-35.	1.9	9
17	How to Simulate Traffic with SUMO. Lecture Notes in Computer Science, 2015, , 773-778.	1.3	9
18	Holistic Calibration of Microscopic Traffic Flow Models: Methodology and Real World Application Studies. Computational Methods in Applied Sciences (Springer), 2015, , 33-52.	0.3	8

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19	Data Stream Mining Applied to Maximum Wind Forecasting in the Canary Islands. Sensors, 2019, 19, 2388.	3.8	8
20	Fusion of Channel State Information and Received Signal Strength for Indoor Localization Using a Single Access Point. Remote Sensing, 2020, 12, 1995.	4.0	8
21	A General Purpose Approach for Global and Local Path Planning Combination. , 2015, , .		6
22	Special Section Editorial on "High Performance Computing in Simulation and Optimization of Dynamic Transportation Networks" [Guest Editorial]. IEEE Intelligent Transportation Systems Magazine, 2018, 10, 5-7.	3.8	6
23	Big Data in Road Transport and Mobility Research. , 2018, , 175-205.		6
24	The Bus Bunching Problem: Empirical Findings from Spatial Analytics. , 2018, , .		6
25	Introduction to the Special Issue on Online Learning for Big-Data Driven Transportation and Mobility. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 4621-4623.	8.0	6
26	Data-Driven Optimization for Transportation Logistics and Smart Mobility Applications [Guest Editorial]. IEEE Intelligent Transportation Systems Magazine, 2020, 12, 6-9.	3.8	6
27	Multi-Objective Optimization of Bike Routes for Last-Mile Package Delivery with Drop-Offs. , 2018, , .		5
28	Study of Correlation Among Several Traffic Parameters Using Evolutionary Algorithms: Traffic Flow, Greenhouse Emissions and Network Occupancy. , 2007, , 1134-1141.		5
29	Evolutionary Computation Applied to Urban Traffic Optimization. , 0, , .		5
30	Stochastic Vs Deterministic Traffic Simulator. Comparative Study for Its Use Within a Traffic Light Cycles Optimization Architecture. Lecture Notes in Computer Science, 2005, , 622-631.	1.3	4
31	Platoon Driving Intelligence. A Survey. Lecture Notes in Computer Science, 2015, , 765-772.	1.3	4
32	ITS+DM Hackathon (ITSC 2017): Lane Departure Prediction With Naturalistic Driving Data. IEEE Intelligent Transportation Systems Magazine, 2019, 11, 78-93.	3.8	4
33	Bit Level Versus Gene Level Crossover in a Traffic Modeling Environment. , 0, , .		3
34	Hierarchical interval type-2 beta fuzzy knowledge representation system for path preference planning. , 2017, , .		2
35	IEEE Intelligent Transportation Systems Magazine: Special Issue on "2017 IEEE International Conference on Vehicular Electronics and Safety (ICVES'17)" [Guest Editorial]. IEEE Intelligent Transportation Systems Magazine, 2018, 10, 6-8.	3.8	2
36	Guest Editorial Special Issue: The 21st IEEE International Conference on Intelligent Transportation Systems (ITSC 2018). IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 3929-3930.	8.0	2

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37	A Multi-Agent system for road traffic decision making based on Hierarchical Interval Type-2 Fuzzy Knowledge Representation System. , 2021, , .		2
38	Overtaking and giving way: Design and validation of a lightweight extended cellular automata urban traffic simulator. , 2012, , .		1
39	Ant Colony Optimization Inspired Algorithm for 3D Object Segmentation into its Constituent Parts. Neural Processing Letters, 2015, 42, 139-153.	3.2	1
40	Simulation Tools. , 2018, , 395-436.		1
41	Acceleration Signal Based Linear Formation Driving Model: Algorithmic Description and Simulation Results. Lecture Notes in Computer Science, 2013, , 47-54.	1.3	1
42	Traffic Signals in Traffic Circles: Simulation and Optimization Based Efficiency Study. Lecture Notes in Computer Science, 2009, , 453-460.	1.3	1
43	A Visual and Statistical Study of a Real World Traffic Optimization Problem. , 0, , .		1
44	Travel Information and Traffic Management [Technical Committees]. IEEE Intelligent Transportation Systems Magazine, 2012, 4, 58-61.	3.8	0
45	ITSolves ITSelf [ITS Fun]. IEEE Intelligent Transportation Systems Magazine, 2013, 5, C3-C3.	3.8	0
46	[ITS Fun]. IEEE Intelligent Transportation Systems Magazine, 2013, 5, C3-C3.	3.8	0
47	ITSolves ITSelf [ITS Fun]. IEEE Intelligent Transportation Systems Magazine, 2013, 5, C3-C3.	3.8	0
48	15th IEEE Intelligent Transportation Systems Conference (ITSC 2012) Papers [Guest Editorial]. IEEE Intelligent Transportation Systems Magazine, 2013, 5, 7-8.	3.8	0
49	[ITS Fun]. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 80-C3.	3.8	0
50	ITSolves ITSelf [ITS Fun]. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 128-C3.	3.8	0
51	[ITS Fun]. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 88-C3.	3.8	0
52	ITSolves ITSelf [ITS Fun]. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 88-C3.	3.8	0
53	[ITS Fun]. IEEE Intelligent Transportation Systems Magazine, 2015, 7, 128-C3.	3.8	0
54	[ITS Fun]. IEEE Intelligent Transportation Systems Magazine, 2015, 7, 88-C3.	3.8	0

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55	[ITS Fun]. IEEE Intelligent Transportation Systems Magazine, 2015, 7, C3-C3.	3.8	0
56	IEEE ITSS's Vice President for Technical Activities Letter [Technical Activities]. IEEE Intelligent Transportation Systems Magazine, 2018, 10, 164-165.	3.8	0
57	IEEE Intelligent Transportation Systems Society's Column: IEEE ITSS's Vice-President for Technical Activities Letter [Technical Activities]. IEEE Intelligent Transportation Systems Magazine, 2018, 10, 204-205.	3.8	0
58	IEEE Intelligent Transportation Systems Society?s Column [Technical Activities]. IEEE Intelligent Transportation Systems Magazine, 2019, 11, 169-171.	3.8	0
59	Driver Pattern Study of Las Palmas de Gran Canaria. Lecture Notes in Computer Science, 2012, , 473-480.	1.3	0
60	Electric Scaled Vehicle as ITS Experimentation Platform. Lecture Notes in Computer Science, 2012, , 441-448.	1.3	0
61	A Simple Classification Approach to Traffic Flow State Estimation. Lecture Notes in Computer Science, 2018, , 435-439.	1.3	0
62	What Can Smart Mobility Offer to Tourism Economy?. Lecture Notes in Computer Science, 2020, , 182-189.	1.3	0