Ibai LaÃ±a

List of Publications by Year
in descending order

35 papers	793 citations	932766 10 h-index	887659 17 g-index
37 all docs	37 docs citations	37 times ranked	720 citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning for Road Traffic Forecasting: Does it Make a Difference?. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6164-6188.	4.7	28
2	On the post-hoc explainability of deep echo state networks for time series forecasting, image and video classification. Neural Computing and Applications, 2022, 34, 10257-10277.	3.2	6
3	From Data to Actions in Intelligent Transportation Systems: A Prescription of Functional Requirements for Model Actionability. Sensors, 2021, 21, 1121.	2.1	23
4	Model Free Identification of Traffic Conditions Using Unmanned Aerial Vehicles and Deep Learning. Journal of Big Data Analytics in Transportation, 2021, 3, 1-13.	1.4	10
5	Computational Intelligence in the hospitality industry: A systematic literature review and a prospect of challenges. Applied Soft Computing Journal, 2021, 102, 107082.	4.1	23
6	Random Vector Functional Link Networks for Road Traffic Forecasting: Performance Comparison and Stability Analysis. , 2021, , .		1
7	Change Detection and Adaptation Strategies for Long-Term Estimation of Pedestrian Flows. , 2021, , .		2
8	Soft Sensing Methods for the Generation of Plausible Traffic Data in Sensor-less Locations. , 2021, , .		1
9	Modelling gene interaction networks from time-series gene expression data using evolving spiking neural networks. Evolving Systems, 2020, 11, 599-613.	2.4	2
10	New Perspectives on the Use of Online Learning for Congestion Level Prediction over Traffic Data. , 2020, , .		4
11	Deep Echo State Networks for Short-Term Traffic Forecasting: Performance Comparison and Statistical Assessment. , 2020, , .		9
12	Effect of Soccer Games on Traffic, Study Case: Madrid. , 2020, , .		1
13	Data-driven Predictive Modeling of Traffic and Air Flow for the Improved Efficiency of Tunnel Ventilation Systems. , 2020, , .		0
14	Transfer Learning and Online Learning for Traffic Forecasting under Different Data Availability Conditions: Alternatives and Pitfalls. , 2020, , .		7
15	On the Transferability of Knowledge among Vehicle Routing Problems by using Cellular Evolutionary Multitasking. , 2020, , .		4
16	Nature-inspired metaheuristics for optimizing information dissemination in vehicular networks. , 2019, , .		2
17	Adaptive long-term traffic state estimation with evolving spiking neural networks. Transportation Research Part C: Emerging Technologies, 2019, 101, 126-144.	3.9	57
18	A Question of Trust: Statistical Characterization of Long-Term Traffic Estimations for their Improved Actionability. , 2019, , .		2

#	Article	IF	Citations
19	Road Traffic Forecasting using Stacking Ensembles of Echo State Networks. , 2019, , .		2
20	Deep Recurrent Neural Networks and Optimization Meta-Heuristics for Green Urban Route Planning with Dynamic Traffic Estimates. , 2019, , .		3
21	What Lies Beneath: A Note on the Explainability of Black-box Machine Learning Models for Road Traffic Forecasting. , 2019, , .		12
22	On the imputation of missing data for road traffic forecasting: New insights and novel techniques. Transportation Research Part C: Emerging Technologies, 2018, 90, 18-33.	3.9	79
23	Road Traffic Forecasting: Recent Advances and New Challenges. IEEE Intelligent Transportation Systems Magazine, 2018, 10, 93-109.	2.6	235
24	Big Data in Road Transport and Mobility Research. , 2018, , 175-205.		6
25	Multi-Objective Optimization of Bike Routes for Last-Mile Package Delivery with Drop-Offs. , 2018, , .		5
26	Road Traffic Forecasting Using NeuCube and Dynamic Evolving Spiking NeuralÂNetworks. Studies in Computational Intelligence, 2018, , 192-203.	0.7	2
27	Drift Detection over Non-stationary Data Streams Using Evolving Spiking NeuralÂNetworks. Studies in Computational Intelligence, 2018, , 82-94.	0.7	6
28	Big Data for transportation and mobility: recent advances, trends and challenges. IET Intelligent Transport Systems, 2018, 12, 742-755.	1.7	93
29	Evolving Spiking Neural Networks for online learning over drifting data streams. Neural Networks, 2018, 108, 1-19.	3.3	60
30	Modelling and Analysis of Temporal Gene Expression Data Using Spiking Neural Networks. Lecture Notes in Computer Science, 2018, , 571-581.	1.0	2
31	Nature-inspired heuristics for the multiple-vehicle selective pickup and delivery problem under maximum profit and incentive fairness criteria. , 2017, , .		6
32	A novel Fireworks Algorithm with wind inertia dynamics and its application to traffic forecasting. , 2017, , .		3
33	Joint Feature Selection and Parameter Tuning for Short-Term Traffic Flow Forecasting Based on Heuristically Optimized Multi-layer Neural Networks. Advances in Intelligent Systems and Computing, 2017, , 91-100.	0.5	10
34	The role of local urban traffic and meteorological conditions in air pollution: A data-based case study in Madrid, Spain. Atmospheric Environment, 2016, 145, 424-438.	1.9	67
35	Understanding daily mobility patterns in urban road networks using traffic flow analytics. , 2016, , .		17