

# Ibai Lañza

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Road Traffic Forecasting: Recent Advances and New Challenges. IEEE Intelligent Transportation Systems Magazine, 2018, 10, 93-109.	2.6	235
2	Big Data for transportation and mobility: recent advances, trends and challenges. IET Intelligent Transport Systems, 2018, 12, 742-755.	1.7	93
3	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
4	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
5	Evolving Spiking Neural Networks for online learning over drifting data streams. Neural Networks, 2018, 108, 1-19.	3.3	60
6	Adaptive long-term traffic state estimation with evolving spiking neural networks. Transportation Research Part C: Emerging Technologies, 2019, 101, 126-144.	3.9	57
7	Deep Learning for Road Traffic Forecasting: Does it Make a Difference?. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6164-6188.	4.7	28
8	From Data to Actions in Intelligent Transportation Systems: A Prescription of Functional Requirements for Model Actionability. Sensors, 2021, 21, 1121.	2.1	23
9	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
10	Understanding daily mobility patterns in urban road networks using traffic flow analytics. , 2016, , .		17
11	What Lies Beneath: A Note on the Explainability of Black-box Machine Learning Models for Road Traffic Forecasting. , 2019, , .		12
12	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
13	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
14	Deep Echo State Networks for Short-Term Traffic Forecasting: Performance Comparison and Statistical Assessment. , 2020, , .		9
15	Transfer Learning and Online Learning for Traffic Forecasting under Different Data Availability Conditions: Alternatives and Pitfalls. , 2020, , .		7
16	Nature-inspired heuristics for the multiple-vehicle selective pickup and delivery problem under maximum profit and incentive fairness criteria. , 2017, , .		6
17	Big Data in Road Transport and Mobility Research. , 2018, , 175-205.		6
18	Drift Detection over Non-stationary Data Streams Using Evolving Spiking Neural Networks. Studies in Computational Intelligence, 2018, , 82-94.	0.7	6

#	ARTICLE	IF	CITATIONS
19	On the post-hoc explainability of deep echo state networks for time series forecasting, image and video classification. <i>Neural Computing and Applications</i> , 2022, 34, 10257-10277.	3.2	6
20	Multi-Objective Optimization of Bike Routes for Last-Mile Package Delivery with Drop-Offs. , 2018, , .		5
21	New Perspectives on the Use of Online Learning for Congestion Level Prediction over Traffic Data. , 2020, , .		4
22	On the Transferability of Knowledge among Vehicle Routing Problems by using Cellular Evolutionary Multitasking. , 2020, , .		4
23	A novel Fireworks Algorithm with wind inertia dynamics and its application to traffic forecasting. , 2017, , .		3
24	Deep Recurrent Neural Networks and Optimization Meta-Heuristics for Green Urban Route Planning with Dynamic Traffic Estimates. , 2019, , .		3
25	Road Traffic Forecasting Using NeuCube and Dynamic Evolving Spiking Neural Networks. <i>Studies in Computational Intelligence</i> , 2018, , 192-203.	0.7	2
26	Nature-inspired metaheuristics for optimizing information dissemination in vehicular networks. , 2019, , .		2
27	A Question of Trust: Statistical Characterization of Long-Term Traffic Estimations for their Improved Actionability. , 2019, , .		2
28	Road Traffic Forecasting using Stacking Ensembles of Echo State Networks. , 2019, , .		2
29	Modelling gene interaction networks from time-series gene expression data using evolving spiking neural networks. <i>Evolving Systems</i> , 2020, 11, 599-613.	2.4	2
30	Change Detection and Adaptation Strategies for Long-Term Estimation of Pedestrian Flows. , 2021, , .		2
31	Modelling and Analysis of Temporal Gene Expression Data Using Spiking Neural Networks. <i>Lecture Notes in Computer Science</i> , 2018, , 571-581.	1.0	2
32	Random Vector Functional Link Networks for Road Traffic Forecasting: Performance Comparison and Stability Analysis. , 2021, , .		1
33	Soft Sensing Methods for the Generation of Plausible Traffic Data in Sensor-less Locations. , 2021, , .		1
34	Effect of Soccer Games on Traffic, Study Case: Madrid. , 2020, , .		1
35	Data-driven Predictive Modeling of Traffic and Air Flow for the Improved Efficiency of Tunnel Ventilation Systems. , 2020, , .		0