

Francisco Camara Pereira

List of Publications by Year in descending order

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Version: 2024-02-01

129
papers

5,386
citations

159358

30
h-index

91712

69
g-index

132
all docs

132
docs citations

132
times ranked

5936
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning classifiers and fMRI: A tutorial overview. <i>NeuroImage</i> , 2009, 45, S199-S209.	2.1	1,425
2	Learning to Decode Cognitive States from Brain Images. <i>Machine Learning</i> , 2004, 57, 145-175.	3.4	535
3	Mining point-of-interest data from social networks for urban land use classification and disaggregation. <i>Computers, Environment and Urban Systems</i> , 2015, 53, 36-46.	3.3	243
4	Multi-output bus travel time prediction with convolutional LSTM neural network. <i>Expert Systems With Applications</i> , 2019, 120, 426-435.	4.4	197
5	Toward a universal decoder of linguistic meaning from brain activation. <i>Nature Communications</i> , 2018, 9, 963.	5.8	178
6	Future Mobility Survey. <i>Transportation Research Record</i> , 2013, 2354, 59-67.	1.0	171
7	The Geography of Taste: Analyzing Cell-Phone Mobility and Social Events. <i>Lecture Notes in Computer Science</i> , 2010, , 22-37.	1.0	163
8	Information mapping with pattern classifiers: A comparative study. <i>NeuroImage</i> , 2011, 56, 476-496.	2.1	126
9	Combining time-series and textual data for taxi demand prediction in event areas: A deep learning approach. <i>Information Fusion</i> , 2019, 49, 120-129.	11.7	108
10	Using pattern recognition to identify habitual behavior in residential electricity consumption. <i>Energy and Buildings</i> , 2012, 49, 479-487.	3.1	107
11	Text analysis in incident duration prediction. <i>Transportation Research Part C: Emerging Technologies</i> , 2013, 37, 177-192.	3.9	94
12	Comparison of Four Types of Artificial Neural Network and a Multinomial Logit Model for Travel Mode Choice Modeling. <i>Transportation Research Record</i> , 2018, 2672, 101-112.	1.0	90
13	Learning from multiple annotators: Distinguishing good from random labelers. <i>Pattern Recognition Letters</i> , 2013, 34, 1428-1436.	2.6	74
14	Using Data From the Web to Predict Public Transport Arrivals Under Special Events Scenarios. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2015, 19, 273-288.	2.6	70
15	Exploratory Analysis of a Smartphone-Based Travel Survey in Singapore. <i>Transportation Research Record</i> , 2015, 2494, 45-56.	1.0	66
16	Learning Supervised Topic Models for Classification and Regression from Crowds. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017, 39, 2409-2422.	9.7	59
17	Sequence labeling with multiple annotators. <i>Machine Learning</i> , 2014, 95, 165-181.	3.4	58
18	Probabilistic modeling and visualization for bankruptcy prediction. <i>Applied Soft Computing Journal</i> , 2017, 60, 831-843.	4.1	57

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19	Overview of traffic incident duration analysis and prediction. <i>European Transport Research Review</i> , 2018, 10, .	2.3	53
20	An off-line map-matching algorithm for incomplete map databases. <i>European Transport Research Review</i> , 2009, 1, 107-124.	2.3	52
21	Multi-Output Gaussian Processes for Crowdsourced Traffic Data Imputation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 594-603.	4.7	51
22	Competing risks mixture model for traffic incident duration prediction. <i>Accident Analysis and Prevention</i> , 2015, 75, 192-201.	3.0	49
23	How to generate micro-agents? A deep generative modeling approach to population synthesis. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 106, 73-97.	3.9	48
24	Methods for pre-processing smartcard data to improve data quality. <i>Transportation Research Part C: Emerging Technologies</i> , 2014, 49, 43-58.	3.9	45
25	Using Wikipedia to learn semantic feature representations of concrete concepts in neuroimaging experiments. <i>Artificial Intelligence</i> , 2013, 194, 240-252.	3.9	42
26	Stop Detection in Smartphone-based Travel Surveys. <i>Transportation Research Procedia</i> , 2015, 11, 218-226.	0.8	42
27	Beyond Expectation: Deep Joint Mean and Quantile Regression for Spatiotemporal Problems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 5377-5389.	7.2	42
28	Competing risk mixture model and text analysis for sequential incident duration prediction. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 54, 74-85.	3.9	37
29	<i>Why so many people</i>? Explaining Nonhabitual Transport Overcrowding With Internet Data. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015, 16, 1370-1379.	4.7	35
30	Semantic projection recovers rich human knowledge of multiple object features from word embeddings. <i>Nature Human Behaviour</i> , 2022, 6, 975-987.	6.2	34
31	A Bayesian Additive Model for Understanding Public Transport Usage in Special Events. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017, 39, 2113-2126.	9.7	33
32	Mapping Social Media for Transportation Studies. <i>IEEE Intelligent Systems</i> , 2016, 31, 64-70.	4.0	32
33	Participating in environmental loyalty program with a real-time multimodal travel app: User needs, environmental and privacy motivators. <i>Transportation Research, Part D: Transport and Environment</i> , 2019, 67, 223-243.	3.2	32
34	The importance of retrieval in creative design analogies. <i>Knowledge-Based Systems</i> , 2006, 19, 480-488.	4.0	31
35	W-SPSA in practice: Approximation of weight matrices and calibration of traffic simulation models. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 59, 129-146.	3.9	31
36	Use intention of mobility-management travel apps: The role of users goals, technophile attitude and community trust. <i>Transportation Research, Part A: Policy and Practice</i> , 2019, 126, 114-135.	2.0	31

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37	Estimating latent demand of shared mobility through censored Gaussian Processes. Transportation Research Part C: Emerging Technologies, 2020, 120, 102775.	3.9	30
38	A topographic latent source model for fMRI data. NeuroImage, 2011, 57, 89-100.	2.1	29
39	Examining the potential of textual big data analytics for public policy decision-making: A case study with driverless cars in Denmark. Transport Policy, 2020, 98, 68-78.	3.4	28
40	Choice modelling in the age of machine learning - Discussion paper. Journal of Choice Modelling, 2022, 42, 100340.	1.2	27
41	On the quality requirements of demand prediction for dynamic public transport. Communications in Transportation Research, 2021, 1, 100008.	4.9	26
42	Improving Scalability of Generic Online Calibration for Real-Time Dynamic Traffic Assignment Systems. Transportation Research Record, 2018, 2672, 79-92.	1.0	25
43	Transportation activity analysis using smartphones. , 2012, , .		22
44	Heteroscedastic Gaussian processes for uncertainty modeling in large-scale crowdsourced traffic data. Transportation Research Part C: Emerging Technologies, 2018, 95, 636-651.	3.9	22
45	How fair is the allocation of bike-sharing infrastructure? Framework for a qualitative and quantitative spatial fairness assessment. Transportation Research, Part A: Policy and Practice, 2020, 140, 299-319.	2.0	22
46	Uncertainty in Bus Arrival Time Predictions: Treating Heteroscedasticity With a Metamodel Approach. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 3286-3296.	4.7	21
47	A holistic framework for the study of urban traces and the profiling of urban processes and dynamics. , 2009, , .		20
48	A Metamodel for Estimating Error Bounds in Real-Time Traffic Prediction Systems. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1310-1322.	4.7	20
49	Predicting taxi demand hotspots using automated Internet Search Queries. Transportation Research Part C: Emerging Technologies, 2019, 102, 73-86.	3.9	20
50	Graph Neural Network Reinforcement Learning for Autonomous Mobility-on-Demand Systems. , 2021, , .		19
51	Prediction of rare feature combinations in population synthesis: Application of deep generative modelling. Transportation Research Part C: Emerging Technologies, 2020, 120, 102787.	3.9	18
52	Using CBR for Automation of Software Design Patterns. Lecture Notes in Computer Science, 2002, , 534-548.	1.0	18
53	Machine Learning Fundamentals. , 2019, , 9-29.		16
54	Predictive and prescriptive performance of bike-sharing demand forecasts for inventory management. Transportation Research Part C: Emerging Technologies, 2022, 138, 103571.	3.9	16

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55	Activity Recognition for a Smartphone and Web-Based Human Mobility Sensing System. IEEE Intelligent Systems, 2018, 33, 5-23.	4.0	15
56	Demand And/oR Equity (DARE) method for planning bike-sharing. Transportation Research, Part D: Transport and Environment, 2021, 97, 102914.	3.2	15
57	Activity Recognition for a Smartphone Based Travel Survey Based on Cross-User History Data. , 2014, , .		14
58	DynaMIT2.0: Architecture Design and Preliminary Results on Real-Time Data Fusion for Traffic Prediction and Crisis Management. , 2015, , .		14
59	Reducing the Dimension of Online Calibration in Dynamic Traffic Assignment Systems. Transportation Research Record, 2017, 2667, 96-107.	1.0	14
60	Open-Ended Versus Closed-Ended Responses: A Comparison Study Using Topic Modeling and Factor Analysis. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2123-2132.	4.7	14
61	The Role of Context in Transport Prediction. IEEE Intelligent Systems, 2014, 29, 76-80.	4.0	13
62	Wâ€“SPSA in Practice: Approximation of Weight Matrices and Calibration of Traffic Simulation Models. Transportation Research Procedia, 2015, 7, 233-253.	0.8	13
63	Multi-output Deep Learning for Bus Arrival Time Predictions. Transportation Research Procedia, 2019, 41, 138-145.	0.8	12
64	Experiments with free concept generation in Divago. Knowledge-Based Systems, 2006, 19, 459-470.	4.0	11
65	Evaluating Off-Peak Pricing Strategies in Public Transportation with an Activity-Based Approach. Transportation Research Record, 2016, 2544, 10-19.	1.0	11
66	Improved Calibration Method for Dynamic Traffic Assignment Models: Constrained Extended Kalman Filter. Transportation Research Record, 2017, 2667, 142-153.	1.0	11
67	Improving the accuracy and efficiency of online calibration for simulation-based Dynamic Traffic Assignment. Transportation Research Part C: Emerging Technologies, 2021, 128, 103195.	3.9	11
68	Place Enrichment by Mining the Web. Lecture Notes in Computer Science, 2009, , 66-77.	1.0	11
69	Routing Policy Choice Set Generation in Stochastic Time-Dependent Networks. Transportation Research Record, 2014, 2466, 76-86.	1.0	10
70	Use of Taxi-Trip Data in Analysis of Demand Patterns for Detection and Explanation of Anomalies. Transportation Research Record, 2017, 2643, 129-138.	1.0	10
71	Stop detection for smartphone-based travel surveys using geo-spatial context and artificial neural networks. Transportation Research Part C: Emerging Technologies, 2020, 121, 102834.	3.9	10
72	Semantic enrichment of places: Ontology learning from web. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2009, 13, 19-30.	0.7	9

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73	Assisted specification of discrete choice models. Journal of Choice Modelling, 2021, 39, 100285.	1.2	9
74	Enrichment of Automatically Generated Texts Using Metaphor. , 2007, , 944-954.		9
75	A neural-embedded discrete choice model: Learning taste representation with strengthened interpretability. Transportation Research Part B: Methodological, 2022, 163, 166-186.	2.8	9
76	An Affective Intelligent Driving Agent: Driver's Trajectory and Activities Prediction. , 2009, ,		8
77	Enabling Bus Transit Service Quality Co-Monitoring Through Smartphone-Based Platform. Transportation Research Record, 2017, 2649, 42-51.	1.0	8
78	Noun Sense Disambiguation with WordNet for Software Design Retrieval. Lecture Notes in Computer Science, 2003, , 537-543.	1.0	8
79	Experiments on Case-Based Retrieval of Software Designs. Lecture Notes in Computer Science, 2002, , 118-132.	1.0	8
80	Transport behavior-mining from smartphones: a review. European Transport Research Review, 2021, 13, .	2.3	8
81	An approach to discover the potential for demand response in the domestic sector. , 2010, ,		7
82	Modeling Human Reliability in the Power Grid Environment: an Application of the SPAR-H Methodology. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 662-666.	0.2	7
83	Real-Time Taxi Demand Prediction using data from the web. , 2018, ,		7
84	Active learning metamodeling for policy analysis: Application to an emergency medical service simulator. Simulation Modelling Practice and Theory, 2019, 97, 101947.	2.2	7
85	Real-Time Predictive Control Strategy Optimization. Transportation Research Record, 2020, 2674, 1-11.	1.0	7
86	Plans as structured networks of hierarchically and temporally related case pieces. Lecture Notes in Computer Science, 1996, , 234-248.	1.0	6
87	Perspectives on Semantics of the Place from Online Resources. , 2009, ,		6
88	Is Travel Demand Actually Deep? An Application in Event Areas Using Semantic Information. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 641-652.	4.7	6
89	Latent class choice model with a flexible class membership component: A mixture model approach. Journal of Choice Modelling, 2021, 41, 100320.	1.2	6
90	Semantics of Place: Ontology Enrichment. Lecture Notes in Computer Science, 2008, , 342-351.	1.0	6

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91	Bayesian Automatic Relevance Determination for Utility Function Specification in Discrete Choice Models. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3126-3136.	4.7	6
92	A user-centric mobility sensing system for transportation activity surveys. , 2013, , .		5
93	Enhancing resilience to disasters using social media. , 2017, , .		5
94	Big Data and Transport Analytics: An Introduction. , 2019, , 1-5.		5
95	Data Preparation. , 2019, , 73-106.		5
96	Open vs closed-ended questions in attitudinal surveys “ Comparing, combining, and interpreting using natural language processing. Transportation Research Part C: Emerging Technologies, 2022, 137, 103589.	3.9	5
97	Combining Case-Based Reasoning and Analogical Reasoning in Software Design. Lecture Notes in Computer Science, 2002, , 183-189.	1.0	4
98	Preserving Uncertainty in Demand Prediction for Autonomous Mobility Services. , 2019, , .		4
99	Place in Perspective: Extracting Online Information about Points of Interest. Lecture Notes in Computer Science, 2010, , 61-72.	1.0	4
100	REBUILDER: A CBR Approach to Knowledge Management in Software Design. Lecture Notes in Computer Science, 2004, , 31-42.	1.0	3
101	Making sense of location context. , 2012, , .		3
102	Dead reckoning on smartphones to reduce GPS usage. , 2014, , .		3
103	Opening Up the Conversation: Topic Modeling for Automated Text Analysis in Travel Surveys. , 2018, , .		3
104	Efficient Transport Simulation With Restricted Batch-Mode Active Learning. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3642-3651.	4.7	3
105	QTIP: Quick simulation-based adaptation of traffic model per incident parameters. Journal of Simulation, 2022, 16, 111-131.	1.0	3
106	Population synthesis for urban resident modeling using deep generative models. Neural Computing and Applications, 2022, 34, 4677-4692.	3.2	3
107	Evaluation of Case-Based Maintenance Strategies in Software Design. , 2003, , 186-200.		2
108	Using CBR for Semantic Analysis of Software Specifications. Lecture Notes in Computer Science, 2004, , 778-792.	1.0	2

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109	Case-Based Adaptation for UML Diagram Reuse. Lecture Notes in Computer Science, 2004, , 678-686.	1.0	2
110	Acquiring semantic context for events from online resources. , 2010, , .		2
111	A Genetic Algorithms Approach for Inverse Shortest Path Length Problems. International Journal of Natural Computing Research, 2014, 4, 36-54.	0.5	2
112	Quantifying mobility. , 2015, , .		2
113	Multi-step ahead prediction of taxi demand using time-series and textual data. Transportation Research Procedia, 2019, 41, 540-544.	0.8	2
114	Model-Based Machine Learning for Transportation. , 2019, , 145-171.		2
115	Experimental study of a similarity metric for retrieving pieces from structured plan cases: Its role in the originality of plan case solutions. Lecture Notes in Computer Science, 1997, , 575-586.	1.0	2
116	The Ejaki Project: A Quality of Service Regulator for Citizens. , 2007, , .		1
117	An introduction to the special issue on cross-community mining. Personal and Ubiquitous Computing, 2014, 18, 351-353.	1.9	1
118	Using internet search queries to predict human mobility in social events. , 2016, , .		1
119	Towards Dynamic Bayesian Networks: State Augmentation for Online Calibration of DTA Systems. , 2018, , .		1
120	Textual Data in Transportation Research: Techniques and Opportunities. , 2019, , 173-197.		1
121	Conceptual Enrichment of Locations Pointed Out by the User. , 2007, , 346-353.		1
122	Darwinci: Creating Bridges to Creativity. Lecture Notes in Computer Science, 1998, , 239-248.	1.0	0
123	Social network analysis in future transportation systems: Contributions on observability, behaviour and structure. Transportation Research Part C: Emerging Technologies, 2018, 91, 369-370.	3.9	0
124	Active Learning for Input Space Exploration in Traffic Simulators. , 2018, , .		0
125	Motivating the use of real-time multimodal travel planners: the role of users value, technophile and community resilience. Transportation Research Procedia, 2019, 41, 113-116.	0.8	0
126	Estimating causal effects with the neural autoregressive density estimator. Journal of Causal Inference, 2021, 9, 211-228.	0.5	0

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127	Clouds: A Module for Automatic Learning of Concept Maps. Lecture Notes in Computer Science, 2000, , 468-470.	1.0	0
128	Directional Grid-Based Search for Simulation Metamodeling Using Active Learning. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 32-46.	0.2	0
129	Active learning metamodeling for survival rate analysis of simulated emergency medical systems. Transportmetrica A: Transport Science, 2024, 20, .	1.3	0