Big Data applications in real-time traffic operation and on urban expressways

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ARTICLE IF CITATIONS Mobile applications for traffic safety., 2015,,. 2 1 Traffic Safety Region Estimation Based on SFS–PCA–LSSVM: An Application to Highway Crash Risk Evaluation. International Journal of Software Engineering and Knowledge Engineering, 2016, 26, 1555-1570. 3 A Survey on Real-Time Big Data Analytics: Applications and Tools., 2016, , . 23 Reprint of: Modelling the impact of traffic incidents on travel time reliability. Transportation 4 Research Part C: Emerging Technologies, 2016, 70, 86-97. Evaluation of the Impact of Travel Time Reliability on Urban Expressway Traffic Safety. Transportation 5 1.0 5 Research Record, 2016, 2582, 8-17. Critical Assessment of Methodologies for Operations and Safety Evaluations of Freeway Turbulence. Transportation Research Record, 2016, 2556, 39-48. 1.0 Short-term speed predictions exploiting big data on large urban road networks. Transportation 7 3.9 118 Research Part C: Emerging Technologies, 2016, 73, 183-201. A Map Reduce-Based Nearest Neighbor Approach for Big-Data-Driven Traffic Flow Prediction. IEEE 2.6 Access, 2016, 4, 2920-2934. A random forests approach to prioritize Highway Safety Manual (HSM) variables for data collection. 9 0.9 14 Journal of Advanced Transportation, 2016, 50, 522-540. A Bayesian ridge regression analysis of congestion's impact on urban expressway safety. Accident 64 Analysis and Prevention, 2016, 88, 124-137 Modelling the impact of traffic incidents on travel time reliability. Transportation Research Part C: 11 3.9 23 Emerging Technologies, 2016, 65, 49-60. Multi-level Bayesian safety analysis with unprocessed Automatic Vehicle Identification data for an urban expressway. Accident Analysis and Prevention, 2016, 88, 68-76. Understanding ridesplitting behavior of on-demand ride services: An ensemble learning approach. 13 3.9 187 Transportation Research Part C: Emerging Technologies, 2017, 76, 51-70. Model Study for Intelligent Transportation System with Big Data. Procedia Computer Science, 2017, 14 1.2 107, 418-426. Safety analytics for integrating crash frequency and real-time risk modeling for expressways. 15 3.0 45 Accident Analysis and Prevention, 2017, 104, 58-64. Statistical inference-based research on sampling time of vehicle driving cycle experiments. Transportation Research, Part D: Transport and Environment, 2017, 54, 114-141. Factors influencing single-bicycle crashes at skewed railroad grade crossings. Journal of Transport 17 1.1 12 and Health, 2017, 7, 54-63. Benchmarking real-time vehicle data streaming models for a smart city. Information Systems, 2017, 72, 2.4 24 62-76.

ARTICLE IF CITATIONS # An Online Prediction Algorithm of Traffic in Big Data Based on the Storm., 2017,,. 2 19 Data and Decision Intelligence for Internet of Things: Putting Human in the Loop., 2017, , . A sensitivity analysis to methodological variation in indicator-based urban sustainability assessment: 21 2.6 19 a Quebec case study. Ecological Indicators, 2017, 83, 122-131. The MapReduce-based approach to improve vehicle controls on big traffic events., 2017,,. Vehicle Speed Prediction by Two-Level Data Driven Models in Vehicular Networks. IEEE Transactions on 23 4.7 119 Intelligent Transportation Systems, 2017, 18, 1793-1801. Big data platform & amp; typical APP services for urban public transportation., 2017, , . Impact of Congestion and Traffic Flow on Crash Frequency and Severity: Application of 25 1.0 18 Smartphone-Collected GPS Travel Data. Transportation Research Record, 2017, 2659, 43-54. Estimating travel time reliability in urban areas through a dynamic simulation model. Transportation 0.8 26 34 Research Procedia, 2017, 27, 857-864. 27 Data Analytics for Safety Applications., 2017, , 215-239. 2 Compression Algorithm of Road Traffic Spatial Data Based on LZW Encoding. Journal of Advanced Transportation, 2017, 2017, 1-13. An Insight into State-of-the-Art Techniques for Big Data Classification. International Journal of 29 0 0.9 Information System Modeling and Design, 2017, 8, 24-42. A Hybrid Algorithm for Estimating Origin-Destination Flows. IEEE Access, 2018, 6, 677-687. 30 2.6 Assessing rear-end crash potential in urban locations based on vehicle-by-vehicle interactions, geometric characteristics and operational conditions. Accident Analysis and Prevention, 2018, 118, 31 3.0 51 Ž21-235. Data Management Architectures for the Improvement of the Availability and Maintainability of a Fleet of Complex Transportation Systems: A State-of-the-Art Review. Studies in Computational Intelligence, 2018, 93-110. Exploring relationships between driving events identified by in-vehicle data recorders, infrastructure 33 characteristics and road crashes. Transportation Research Part C: Emerging Technologies, 2018, 91, 3.9 16 156-175. Chapter 9. Real-Time Traffic Safety and Operation. Transport and Sustainability, 2018, , 175-204. 34 The Design of a Software Engineering Lifecycle Process for Big Data Projects. IT Professional, 2018, 20, 35 1.4 8 45-52. Fog Based Intelligent Transportation Big Data Analytics in The Internet of Vehicles Environment: 173 Motivations, Architecture, Challenges, and Critical Issues. IEEE Access, 2018, 6, 15679-15701.

#	Article	IF	CITATIONS
37	Traffic conflict models to evaluate the safety of signalized intersections at the cycle level. Transportation Research Part C: Emerging Technologies, 2018, 89, 289-302.	3.9	109
38	Applying Big Data Analytics in Governance to Achieve Sustainable Development Goals (SDGs) in India. Studies in Big Data, 2018, , 273-291.	0.8	12
39	Double-layered big data analytics architecture for solar cells series welding machine. Computers in Industry, 2018, 97, 17-23.	5.7	8
40	Compression algorithm of road traffic data in time series based on temporal correlation. IET Intelligent Transport Systems, 2018, 12, 177-185.	1.7	9
41	An Extensive Review on Data Mining Methods and Clustering Models for Intelligent Transportation System. Journal of Intelligent Systems, 2018, 27, 263-273.	1.2	8
42	A new paradigm for accident investigation and analysis in the era of big data. Process Safety Progress, 2018, 37, 42-48.	0.4	27
43	Big data analytics in supply chain management: A state-of-the-art literature review. Computers and Operations Research, 2018, 98, 254-264.	2.4	328
44	Methodologies, principles and prospects of applying big data in safety science research. Safety Science, 2018, 101, 60-71.	2.6	41
45	Real-time crash prediction in an urban expressway using disaggregated data. Transportation Research Part C: Emerging Technologies, 2018, 86, 202-219.	3.9	122
46	Effects of real-time warning systems on driving under fog conditions using an empirically supported speed choice modeling framework. Transportation Research Part C: Emerging Technologies, 2018, 86, 97-110.	3.9	39
47	Data and Decision Intelligence for Human-in-the-Loop Cyber-Physical Systems: Reference Model, Recent Progresses and Challenges. Journal of Signal Processing Systems, 2018, 90, 1167-1178.	1.4	25
48	EXIMIUS., 2018,,.		25
49	Reliability Assessment Tool: Development and Prototype Testing. Transportation Research Record, 2018, 2672, 29-38.	1.0	0
50	Big Data Approach as an Institutional Innovation to Tackle Hong Kong's Illegal Subdivided Unit Problem. Sustainability, 2018, 10, 2709.	1.6	10
51	Supervised Data Synthesizing and Evolving – A Framework for Real-World Traffic Crash Severity Classification. , 2018, , .		5
52	Freeway Traffic Incident Detection from Cameras: A Semi-Supervised Learning Approach. , 2018, , .		25
53	An Adaptive Online Learning Model for Flight Data Cluster Analysis. , 2018, , .		3
54	Vehicle Acceleration Prediction Based on Nonlinear Auto Regressive Models with Exogenous Inputs. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
55	Enhancing the Prediction Performance of Real-Time Crash Prediction Models: A Cell Transmission-Dynamic Bayesian Network Approach. Transportation Research Record, 2018, 2672, 58-68.	1.0	6
56	Hierarchical travel demand estimation using multiple data sources: A forward and backward propagation algorithmic framework on a layered computational graph. Transportation Research Part C: Emerging Technologies, 2018, 96, 321-346.	3.9	66
57	Utilizing bluetooth and adaptive signal control data for real-time safety analysis on urban arterials. Transportation Research Part C: Emerging Technologies, 2018, 97, 114-127.	3.9	39
58	Mapping the Intellectual Structure of the Big Data Research in the IS Discipline. Information Resources Management Journal, 2018, 31, 21-52.	0.8	15
59	Big-data-driven safety decision-making: A conceptual framework and its influencing factors. Safety Science, 2018, 109, 46-56.	2.6	57
60	Approach-level real-time crash risk analysis for signalized intersections. Accident Analysis and Prevention, 2018, 119, 274-289.	3.0	88
61	Integration of artificial intelligence in an injection molding process for on-line process parameter adjustment. , 2018, , .		16
62	Towards a Cloud Computing Paradigm for Big Data Analysis in Smart Cities. Programming and Computer Software, 2018, 44, 181-189.	0.5	43
63	Event management architecture for the monitoring and diagnosis of a fleet of trains: a case study. Journal of Modern Transportation, 2019, 27, 169-187.	2.5	4
64	Kernel PCA for road traffic data nonâ€linear feature extraction. IET Intelligent Transport Systems, 2019, 13, 1291-1298.	1.7	11
65	Multilayer Perceptron Method to Estimate Real-World Fuel Consumption Rate of Light Duty Vehicles. IEEE Access, 2019, 7, 63395-63402.	2.6	28
66	Future Outlook of Highway Operations with Implementation of Innovative Technologies Like AV, CV, IoT and Big Data. Logistics, 2019, 3, 15.	2.4	23
67	Principles, Approaches and Challenges of Applying Big Data in Safety Psychology Research. Frontiers in Psychology, 2019, 10, 1596.	1.1	8
68	Mapping spatio-temporal patterns and detecting the factors of traffic congestion with multi-source data fusion and mining techniques. Computers, Environment and Urban Systems, 2019, 77, 101364.	3.3	50
69	Application of big data technology in agricultural Internet of Things. International Journal of Distributed Sensor Networks, 2019, 15, 155014771988161.	1.3	19
70	A Qualitative and Quantitative Analysis of Real Time Traffic Information Providers. , 2019, , .		3
71	Research on perception bias of implementation benefits of urban intelligent transportation system based on big data. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	1.5	8
72	Analyzing the Impact of Traffic Congestion Mitigation: From an Explainable Neural Network Learning Framework to Marginal Effect Analyses. Sensors, 2019, 19, 2254.	2.1	13

#	Article	IF	CITATIONS
73	A Taxonomy of Traffic Forecasting Regression Problems From a Supervised Learning Perspective. IEEE Access, 2019, 7, 68185-68205.	2.6	23
74	Transferability of real-time safety performance functions for signalized intersections. Accident Analysis and Prevention, 2019, 129, 263-276.	3.0	22
75	Challenges, opportunities and paradigm of applying big data to production safety management: From a theoretical perspective. Journal of Cleaner Production, 2019, 231, 592-599.	4.6	33
76	Quasi-vehicle-trajectory-based real-time safety analysis for expressways. Transportation Research Part C: Emerging Technologies, 2019, 103, 30-38.	3.9	36
77	Geographical patterns of traffic congestion in growing megacities: Big data analytics from Beijing. Cities, 2019, 92, 164-174.	2.7	128
78	Systematic Review of the Literature on Big Data in the Transportation Domain: Concepts and Applications. Big Data Research, 2019, 17, 35-44.	2.6	76
79	iFusion: Towards efficient intelligence fusion for deep learning from real-time and heterogeneous data. Information Fusion, 2019, 51, 215-223.	11.7	25
80	Examining traffic conflicts of up stream toll plaza area using vehicles' trajectory data. Accident Analysis and Prevention, 2019, 125, 174-187.	3.0	64
81	A Perspective on the Challenges and Opportunities for Privacy-Aware Big Transportation Data. Journal of Big Data Analytics in Transportation, 2019, 1, 1-23.	1.4	15
82	Real-Time Crash Risk Prediction using Long Short-Term Memory Recurrent Neural Network. Transportation Research Record, 2019, 2673, 314-326.	1.0	113
83	Intelligent Transportation Decision Analysis System Based on Big Data Mining. Journal of Physics: Conference Series, 2019, 1168, 032002.	0.3	2
84	Network screening for large urban road networks: Using GPS data and surrogate measures to model crash frequency and severity. Accident Analysis and Prevention, 2019, 125, 290-301.	3.0	37
85	Big Data Role in Improving Intelligent Transportation Systems Safety: A Survey. Lecture Notes on Data Engineering and Communications Technologies, 2019, , 187-199.	0.5	6
86	Exploring crash mechanisms with microscopic traffic flow variables: A hybrid approach with latent class logit and path analysis models. Accident Analysis and Prevention, 2019, 125, 70-78.	3.0	20
87	RiskCast. , 2019, , .		11
88	Büyük Veri Perspektifinden Trafik Tahmini Traffic Prediction Based on Big Data Perspective. , 2019, , .		1
89	Big Data and Emerging Transportation Challenges: Findings from the NOESIS project. , 2019, , .		3
90	Optimized Service System for Rail Travel Management Using Big Data Framework. , 2019, , .		0

#	Article	IF	CITATIONS
91	A spatiotemporal deep learning approach for citywide short-term crash risk prediction with multi-source data. Accident Analysis and Prevention, 2019, 122, 239-254.	3.0	174
92	Exploring the impacts of speed variances on safety performance of urban elevated expressways using GPS data. Accident Analysis and Prevention, 2019, 123, 29-38.	3.0	21
93	Using data-driven safety decision-making to realize smart safety management in the era of big data: A theoretical perspective on basic questions and their answers. Journal of Cleaner Production, 2019, 210, 1595-1604.	4.6	39
94	Where will the next ski injury occur? A system for visual and predictive analytics of ski injuries. Operational Research, 2019, 19, 973-992.	1.3	3
95	Real-time crash prediction models: State-of-the-art, design pathways and ubiquitous requirements. Accident Analysis and Prevention, 2019, 124, 66-84.	3.0	95
96	A Distributed Collaborative Urban Traffic Big Data System Based on Cloud Computing. IEEE Intelligent Transportation Systems Magazine, 2019, 11, 37-47.	2.6	15
97	Big Data in ITS: Concept, Case Studies, Opportunities, and Challenges. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3189-3194.	4.7	14
98	Full Bayesian conflict-based models for real time safety evaluation of signalized intersections. Accident Analysis and Prevention, 2019, 129, 367-381.	3.0	75
99	Analysis of real-time crash risk for expressway ramps using traffic, geometric, trip generation, and socio-demographic predictors. Accident Analysis and Prevention, 2019, 122, 378-384.	3.0	75
100	Big AIS data based spatial-temporal analyses of ship traffic in Singapore port waters. Transportation Research, Part E: Logistics and Transportation Review, 2019, 129, 287-304.	3.7	126
101	Measuring and visualizing space–time congestion patterns in an urban road network using large-scale smartphone-collected GPS data. Transportation Letters, 2019, 11, 391-401.	1.8	9
102	Big Data Analytics in Intelligent Transportation Systems: A Survey. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 383-398.	4.7	634
103	Impact of real-time traffic characteristics on crash occurrence: Preliminary results of the case of rare events. Accident Analysis and Prevention, 2019, 130, 151-159.	3.0	28
104	Differential Privacy Techniques for Cyber Physical Systems: A Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 746-789.	24.8	335
105	Boosting Vehicle-to-Cloud Communication by Machine Learning-Enabled Context Prediction. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 3497-3512.	4.7	31
106	Safety informatics as a new, promising and sustainable area of safety science in the information age. Journal of Cleaner Production, 2020, 252, 119852.	4.6	39
107	Risk factors of road accident severity and the development of a new system for prevention: New insights from China. Accident Analysis and Prevention, 2020, 136, 105411.	3.0	33
109	Comparison of different models for evaluating vehicle collision risks at upstream diverging area of toll plaza. Accident Analysis and Prevention, 2020, 135, 105343.	3.0	31

#	Article	IF	CITATIONS
110	Real-time crash risk prediction on arterials based on LSTM-CNN. Accident Analysis and Prevention, 2020, 135, 105371.	3.0	192
111	Application of Big Data Visualization in Urban Planning. IOP Conference Series: Earth and Environmental Science, 2020, 440, 042066.	0.2	2
112	Modern data sources and techniques for analysis and forecast of road accidents: A review. Journal of Traffic and Transportation Engineering (English Edition), 2020, 7, 432-446.	2.0	56
113	Applying latent class analysis to investigate rural highway single-vehicle fatal crashes in China. Accident Analysis and Prevention, 2020, 148, 105840.	3.0	20
114	A worldwide, machine-generated airfield database: better than hand-curated datasets?. Proceedings of the Institution of Civil Engineers: Transport, 0, , 1-10.	0.3	0
115	The influence of traffic, geometric and context variables on urban crash types: A grouped random parameter multinomial logit approach. Analytic Methods in Accident Research, 2020, 28, 100141.	4.7	26
116	A case study of MapReduce-based expressway traffic data analysis and service system. International Journal of Internet Manufacturing and Services, 2020, 7, 278.	0.2	0
117	Convolutional neural networks with refined loss functions for the real-time crash risk analysis. Transportation Research Part C: Emerging Technologies, 2020, 119, 102740.	3.9	48
118	Real-time traffic accidents post-impact prediction: Based on crowdsourcing data. Accident Analysis and Prevention, 2020, 145, 105696.	3.0	41
119	Machine learning in occupational accident analysis: A review using science mapping approach with citation network analysis. Safety Science, 2020, 131, 104900.	2.6	56
120	Shortâ€ŧerm prediction of traffic flow under incident conditions using graph convolutional recurrent neural network and traffic simulation. IET Intelligent Transport Systems, 2020, 14, 936-946.	1.7	27
121	A Road Traffic Crash Risk Assessment Method Using Vehicle Trajectory Data and Surrogate Safety Measures. , 2020, , .		0
122	Review on big data applications in safety research of intelligent transportation systems and connected/automated vehicles. Accident Analysis and Prevention, 2020, 146, 105711.	3.0	48
123	Ranking contributors to traffic crashes on mountainous freeways from an incomplete dataset: A sequential approach of multivariate imputation by chained equations and random forest classifier. Accident Analysis and Prevention, 2020, 146, 105744.	3.0	19
124	Discovering the Commuters' Assessments on Disaster Resilience of Transportation Infrastructure. , 2020, , .		8
125	Task-Driven Approach for Deadline Based Scheduling Across Sensor Networks. , 2020, , .		1
126	Equipment Operation Analysis and Application Research Based on Big Data Electric Power Distribution Network. Journal of Physics: Conference Series, 2020, 1631, 012133.	0.3	0
127	Detecting Traffic Incidents Using Persistence Diagrams. Algorithms, 2020, 13, 222.	1.2	3

#	Article	IF	CITATIONS
128	A Modified Stochastic User Equilibrium Based Back-Propagation Method of Transportation Network State Estimation. , 2020, , .		0
129	A Spatial and Temporal Combination Model for Traffic Flow: A Case Study of Beijing Expressway. , 2020, , .		1
130	Modeling Real-Time Cycle-Level Crash Risk at Signalized Intersections Based on High-Resolution Event-Based Data. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6700-6715.	4.7	20
131	Predicting lane-changing risk level based on vehicles' space-series features: A pre-emptive learning approach. Transportation Research Part C: Emerging Technologies, 2020, 116, 102646.	3.9	35
132	Fine-Grained Traffic Flow Prediction of Various Vehicle Types via Fusion of Multisource Data and Deep Learning Approaches. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6921-6930.	4.7	27
133	Real-time crash prediction on expressways using deep generative models. Transportation Research Part C: Emerging Technologies, 2020, 117, 102697.	3.9	92
134	Safety, Energy, and Emissions Impacts of Adaptive Cruise Control and Cooperative Adaptive Cruise Control. Transportation Research Record, 2020, 2674, 253-267.	1.0	59
135	Analysis of crash injury severity on two trans-European transport network corridors in Spain using discrete-choice models and random forests. Traffic Injury Prevention, 2020, 21, 228-233.	0.6	14
136	Intersection Congestion Analysis Based on Cellular Activity Data. IEEE Access, 2020, 8, 43476-43481.	2.6	3
137	Harnessing ambient sensing & naturalistic driving systems to understand links between driving volatility and crash propensity in school zones – A generalized hierarchical mixed logit framework. Transportation Research Part C: Emerging Technologies, 2020, 114, 405-424.	3.9	18
138	Fuzzy Inspired Deep Belief Network for the Traffic Flow Prediction in Intelligent Transportation System Using Flow Strength Indicators. Big Data, 2020, 8, 291-307.	2.1	4
139	A cost–benefit analysis of hospital diagnostic imaging services in public hospital units in Greece. British Journal of Health Care Management, 2020, 26, 144-152.	0.1	Ο
140	Influence of Traffic Parameters on the Temporal Distribution of Crashes. KSCE Journal of Civil Engineering, 2020, 24, 954-961.	0.9	3
141	A Review of Data Analytic Applications in Road Traffic Safety. Part 1: Descriptive and Predictive Modeling. Sensors, 2020, 20, 1107.	2.1	28
142	Urban arterial traffic status detection using cellular data without cellphone GPS information. Transportation Research Part C: Emerging Technologies, 2020, 114, 446-462.	3.9	20
143	A graph CNN-LSTM neural network for short and long-term traffic forecasting based on trajectory data. Transportation Research Part C: Emerging Technologies, 2020, 112, 62-77.	3.9	199
144	Predicting the use frequency of ride-sourcing by off-campus university students through random forest and Bayesian network techniques. Transportation Research, Part A: Policy and Practice, 2020, 136, 262-281.	2.0	40
145	Analysis of Road Safety Speed from Floating Car Data. Transportation Research Procedia, 2020, 45, 898-905.	0.8	8

#	Article	IF	CITATIONS
146	Time-varying Analysis of Traffic Conflicts at the Upstream Approach of Toll Plaza. Accident Analysis and Prevention, 2020, 141, 105539.	3.0	17
147	Traffic pattern detection using topic modeling for speed cameras based on big data abstraction. Transportation Letters, 2020, , 1-8.	1.8	6
148	Predicting Citywide Road Traffic Flow Using Deep Spatiotemporal Neural Networks. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3101-3111.	4.7	34
149	Multivariate time series analysis of traffic congestion measures in urban areas as they relate to socioeconomic indicators. Socio-Economic Planning Sciences, 2021, 75, 100877.	2.5	19
150	Integrating multiple data to identify building functions in China's urban villages. Environment and Planning B: Urban Analytics and City Science, 2021, 48, 1527-1542.	1.0	4
151	Application of Connected and Automated Vehicles in a Large-Scale Network by Considering Vehicle-to-Vehicle and Vehicle-to-Infrastructure Technology. Transportation Research Record, 2021, 2675, 93-113.	1.0	8
152	A trajectory restoration algorithm for low-sampling-rate floating car data and complex urban road networks. International Journal of Geographical Information Science, 2021, 35, 717-740.	2.2	9
153	Safety science: A situated science. Safety Science, 2021, 135, 105063.	2.6	8
154	Understanding the effects of vehicle platoons on crash type and severity. Accident Analysis and Prevention, 2021, 149, 105858.	3.0	21
155	Big Data Analytics as a mediator in Lean, Agile, Resilient, and Green (LARG) practices effects on sustainable supply chains. Transportation Research, Part E: Logistics and Transportation Review, 2021, 145, 102170.	3.7	109
156	The Evaluation of the Urban Road Network Based on the Complex Network. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 200-211.	2.6	2
157	Observations on the Relationship between Crash Frequency and Traffic Flow. Safety, 2021, 7, 3.	0.9	6
158	Combating Road Traffic Congestion with Big Data: A Bibliometric Review and Analysis of Scientific Research. EAI/Springer Innovations in Communication and Computing, 2021, , 43-86.	0.9	1
159	Traffic Inference System Using Correlation Analysis with Various Predicted Big Data. Electronics (Switzerland), 2021, 10, 354.	1.8	3
160	Crash data augmentation using variational autoencoder. Accident Analysis and Prevention, 2021, 151, 105950.	3.0	86
161	Developing safety performance functions for freeways at different aggregation levels using multi-state microscopic traffic detector data. Accident Analysis and Prevention, 2021, 151, 105984.	3.0	13
162	Single-vehicle crash severity outcome prediction and determinant extraction using tree-based and other non-parametric models. Accident Analysis and Prevention, 2021, 153, 106034.	3.0	25
163	User Satisfaction Assessment of a Developed Temperature Monitoring System Based on A-Priori Information System Impact Model. International Journal of Sociotechnology and Knowledge Development, 2021, 13, 71-89.	0.4	1

#	Article	IF	CITATIONS
164	Smart parking systems: comprehensive review based on various aspects. Heliyon, 2021, 7, e07050.	1.4	81
165	Trajectory data based freeway high-risk events prediction and its influencing factors analyses. Accident Analysis and Prevention, 2021, 154, 106085.	3.0	27
166	Big Data Processing and Analysis in Internet of Vehicles: Architecture, Taxonomy, and Open Research Challenges. Archives of Computational Methods in Engineering, 2022, 29, 793-829.	6.0	34
167	The association between crashes and safety-critical events: Synthesized evidence from crash reports and naturalistic driving data among commercial truck drivers. Transportation Research Part C: Emerging Technologies, 2021, 126, 103016.	3.9	13
168	An integrated methodology for real-time driving risk status prediction using naturalistic driving data. Accident Analysis and Prevention, 2021, 156, 106122.	3.0	40
169	Leveraging big data in smart cities: A systematic review. Concurrency Computation Practice and Experience, 2021, 33, e6379.	1.4	30
170	Dynamic driving environment complexity quantification method and its verification. Transportation Research Part C: Emerging Technologies, 2021, 127, 103051.	3.9	9
171	Understanding the Effect of Traffic Congestion on Accidents Using Big Data. Sustainability, 2021, 13, 7500.	1.6	16
172	Towards a political theory of data justice: a public good perspective. Journal of Information Communication and Ethics in Society, 2021, 19, 374-390.	1.0	2
173	Hybrid short-term traffic forecasting architecture and mechanisms for reservation-based Cooperative ITS. Journal of Systems Architecture, 2021, 117, 102101.	2.5	10
174	Comprehensive review of computational intelligence based smart city community. Journal of Intelligent and Fuzzy Systems, 2021, 41, 975-991.	0.8	2
175	Method for Identifying the Traffic Congestion Situation of the Main Road in Cold-Climate Cities Based on the Clustering Analysis Algorithm. Sustainability, 2021, 13, 9741.	1.6	5
176	Massive GNSS data for road safety analysis: Comparing crash models for several Canadian cities and data sources. Accident Analysis and Prevention, 2021, 159, 106232.	3.0	3
177	A study of freeway crash risk prediction and interpretation based on risky driving behavior and traffic flow data. Accident Analysis and Prevention, 2021, 160, 106328.	3.0	42
178	Large-Scale Data-Driven Traffic Sensor Health Monitoring. Journal of Big Data Analytics in Transportation, 0, , 1.	1.4	1
179	Assessing the crash risks of evacuation: A matched case-control approach applied over data collected during Hurricane Irma. Accident Analysis and Prevention, 2021, 159, 106260.	3.0	8
180	Predicting unsafe driving risk among commercial truck drivers using machine learning: Lessons learned from the surveillance of 20 million driving miles. Accident Analysis and Prevention, 2021, 159, 106285.	3.0	12
181	A conflict-based approach for real-time road safety analysis: Comparative evaluation with crash-based models. Accident Analysis and Prevention, 2021, 161, 106382.	3.0	14

#	Δρτιςι ε	IF	CITATIONS
"	Identifying Tourists and Locals by K-Means Clustering Method from Mobile Phone Signaling Data.		
182	Journal of Transportation Engineering Part A: Systems, 2021, 147, .	0.8	15
183	What is the elasticity of sharing a ridesourcing trip?. Transportation Research, Part A: Policy and Practice, 2021, 153, 284-305.	2.0	6
184	Big data in safety management: An overview. Safety Science, 2021, 143, 105414.	2.6	29
185	A deep learning approach for real-time crash prediction using vehicle-by-vehicle data. Accident Analysis and Prevention, 2021, 162, 106409.	3.0	30
186	A Measurement Framework for Explicit and Implicit Urban Traffic Sensing. ACM Transactions on Sensor Networks, 2021, 17, 1-27.	2.3	1
187	Survey on Big Data Techniques in Intelligent Transportation System (ITS). Materials Today: Proceedings, 2021, 47, 8-17.	0.9	17
188	Driver injury severity analysis of crashes in a western China's rural mountainous county: Taking crash compatibility difference into consideration. Journal of Traffic and Transportation Engineering (English Edition), 2020, , .	2.0	2
189	Multivariate Time Series Traffic Forecast with Long Short Term Memory based Deep Learning Model. , 2020, , .		6
190	Ski injury predictive analytics from massive ski lift transportation data. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2018, 232, 208-217.	0.4	6
191	Traffic speed mapping with cellular network signaling data by FOSS4G. Spatial Information Research, 2022, 30, 131-142.	1.3	0
192	A functional approach for characterizing safety risk of signalized intersections at the movement level: An exploratory analysis. Accident Analysis and Prevention, 2021, 163, 106446.	3.0	6
193	Enhancing Traffic Safety with Mobile Applications. Acta Technica Jaurinensis, 2016, 9, 216.	0.6	0
194	Spatial Network Big Databases: An Introduction. , 2017, , 1-8.		0
195	AN ANALYSIS OF RISK FACTORS FOR REAR END COLLISIONS ON URBAN EXPRESSWAY FROM THE VIEWPOINT OF ACCIDENT SEVERITY. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and) Tj ETQq1	1 ዉ7 8431	.40rgBT /Ove
196	Selecting Safe Walking Routes to Minimize Exposure Time in Outdoor Environments. Advances in Intelligent Systems and Computing, 2019, , 12-19.	0.5	0
197	The Applied Analysis of Big Data in Traffic Safety Management. Smart Innovation, Systems and Technologies, 2019, , 411-419.	0.5	0
198	The Contribution of Open Big Data Sources and Analytics Tools to Sustainable Urban Mobility. Advances in Intelligent Systems and Computing, 2019, , 706-713.	0.5	0
199	Weapon Combat Effectiveness Analytics Using Big Data and Simulations: A Literature Review. SAE International Journal of Advances and Current Practices in Mobility, 0, 1, 357-374.	2.0	1

#	Article	IF	Citations
200	A Review of Nonprobability Sampling Using Mobile Apps for Fishing Effort and Catch Surveys. Transactions of the American Fisheries Society, 2022, 151, 42-49.	0.6	8
201	Peak Traffic Flow Predictions: Exploiting Toll Data from Large Expressway Networks. Sustainability, 2021, 13, 260.	1.6	8
202	Fuzzy and Random Evaluation of Operation States of Urban Expressway Interchanges. , 2020, , .		0
203	Difference between reported crash time and speed disturbances in urban signalized intersections: a case study in Fortaleza-Brazil. Transportes, 2020, 28, 280-293.	0.3	0
204	Mapping the Intellectual Structure of the Big Data Research in the IS Discipline. , 2022, , 1923-1957.		0
205	An Insight into State-of-the-Art Techniques for Big Data Classification. , 2020, , 1742-1763.		0
206	How to Build Hadoop in the Field of Transportation by Cloud Computing. Advances in Intelligent Systems and Computing, 2020, , 217-224.	0.5	0
207	Integrated Internet of Things and Analysis Framework for Industrial Applications Using a Multi Tiered Analysis Architecture. Communications in Computer and Information Science, 2020, , 292-303.	0.4	0
208	Impact of AI-Based Tools and Urban Big Data Analytics on the Design and Planning of Cities. Land, 2021, 10, 1209.	1.2	15
209	Coherence analysis of road safe speed and driving behaviour from floating car data. IET Intelligent Transport Systems, 2020, 14, 985-992.	1.7	4
210	A hybrid machine learning model for predicting Real-Time secondary crash likelihood. Accident Analysis and Prevention, 2022, 165, 106504.	3.0	15
211	Module for Detection and Elimination of Contractions in Big Data in The Intellectual Information System of Public Transport. , 2021, , .		0
212	Deep convolutional generative adversarial networks for traffic data imputation encoding time series as images. International Journal of Transportation Science and Technology, 2023, 12, 1-18.	2.0	11
213	A Review of Incident Prediction, Resource Allocation, and Dispatch Models for Emergency Management. Accident Analysis and Prevention, 2022, 165, 106501.	3.0	16
214	Transfer learning for spatio-temporal transferability of real-time crash prediction models. Accident Analysis and Prevention, 2022, 165, 106511.	3.0	19
215	Understanding the potential of emerging digital technologies for improving road safety. Accident Analysis and Prevention, 2022, 166, 106543.	3.0	22
216	Exploring the associations between driving volatility and autonomous vehicle hazardous scenarios: Insights from field operational test data. Accident Analysis and Prevention, 2022, 166, 106537.	3.0	4
217	Application of risky driving behavior in crash detection and analysis. Physica A: Statistical Mechanics and Its Applications, 2022, 591, 126808.	1.2	9

#	Article	IF	CITATIONS
218	Bayesian dynamic extreme value modeling for conflict-based real-time safety analysis. Analytic Methods in Accident Research, 2022, 34, 100204.	4.7	37
219	An Urban Traffic Decision Analysis Platform based on Virtual Geographic Environments (VGEs). , 2020, ,		0
220	Using an Imbalanced Classification Algorithm and Floating Car Data for Predicting Real-Time Traffic Crash Risk on Expressways. SSRN Electronic Journal, 0, , .	0.4	1
222	A Graph Convolutional Network-Based Model for Traffic Flow Prediction Using Multimodal Spatial and Temporal Data. Journal of Highway and Transportation Research and Development (English) Tj ETQq1 1 0.78	430 1.4 rgB1	/Overlock
223	Using Probe-Based Speed Data and Interactive Maps for Long-Term and COVID-Era Congestion Monitoring in San Francisco. Transportation Research Record, 0, , 036119812110699.	1.0	1
224	A deep generative approach for crash frequency model with heterogeneous imbalanced data. Analytic Methods in Accident Research, 2022, 34, 100212.	4.7	18
225	Emerging Technologies for Smart Cities' Transportation: Geo-Information, Data Analytics and Machine Learning Approaches. ISPRS International Journal of Geo-Information, 2022, 11, 85.	1.4	25
226	Navigating to safety: Necessity, requirements, and barriers to considering safety in route finding. Transportation Research Part C: Emerging Technologies, 2022, 137, 103542.	3.9	4
228	Efficient Histogram-Based Gradient Boosting Approach for Accident Severity Prediction With Multisource Data. Transportation Research Record, 2022, 2676, 236-258.	1.0	13
229	Using traffic flow characteristics to predict real-time conflict risk: A novel method for trajectory data analysis. Analytic Methods in Accident Research, 2022, 35, 100217.	4.7	23
230	Travel route safety estimation based on conflict simulation. Accident Analysis and Prevention, 2022, 171, 106666.	3.0	7
231	Application of explainable machine learning for real-time safety analysis toward a connected vehicle environment. Accident Analysis and Prevention, 2022, 171, 106681.	3.0	22
232	Safety Monitoring System of CAVs Considering the Trade-Off between Sampling Interval and Data Reliability. Sensors, 2022, 22, 3611.	2.1	3
233	Real-Time Crash Likelihood Prediction Using Temporal Attention–Based Deep Learning and Trajectory Fusion. Journal of Transportation Engineering Part A: Systems, 2022, 148, .	0.8	7
234	Exploring the spatiotemporal pattern of traffic congestion performance of large cities in China: A real-time data based investigation. Environmental Impact Assessment Review, 2022, 95, 106808.	4.4	18
235	A genetic programming approach for real-time crash prediction to solve trade-off between interpretability and accuracy. Journal of Transportation Safety and Security, 2023, 15, 421-443.	1.1	7
236	Key Technology and Analysis of Expressway Intelligent Service Area. , 2022, , .		2
237	Improving Spatiotemporal Transferability of Real-Time Crash Likelihood Prediction Models Using Transfer-Learning Approaches. Transportation Research Record, 0, , 036119812210942.	1.0	2

#	Article	IF	CITATIONS
238	Comprehensive Data Analysis Approach for Appropriate Scheduling of Signal Timing Plans. Future Transportation, 2022, 2, 482-500.	1.3	4
239	Safety intelligence toward safety management in a big-data environment: A general model and its application in urban safety management. Safety Science, 2022, 154, 105840.	2.6	4
240	Monitoring of the transport movement zone using UAV and geostationary satellite. Transportation Research Procedia, 2022, 63, 1589-1594.	0.8	0
241	A Review of Big Data in Road Freight Transport Modeling–Gaps and Potentials. SSRN Electronic Journal, 0, , .	0.4	2
242	A Step Closer Towards Sustainable Economic Growth with Big Data Analytics. , 2022, , 103-133.		0
243	Short-Term Safety Performance Functions for Freeways Including High Occupancy Vehicle Lanes. Transportation Research Record, 2023, 2677, 1634-1645.	1.0	4
244	In-Vehicle Safe Driving Aid and Inter-Vehicle Interaction Technology. , 2022, , .		0
245	How to Promote Urban Intelligent Transportation: A Fuzzy Cognitive Map Study. Frontiers in Neuroscience, 0, 16, .	1.4	1
246	Deep convolutional autoencoder for urban land use classification using mobile device data. International Journal of Geographical Information Science, 2022, 36, 2138-2168.	2.2	4
247	An internet of things-enabled decision support system for freight transportation: A case study of Indian special freight transport operator. Computers and Industrial Engineering, 2022, 172, 108549.	3.4	2
248	Dynamic Forest forÂLearning fromÂData Streams withÂVarying Feature Spaces. Lecture Notes in Computer Science, 2022, , 95-111.	1.0	1
249	Multiagent Information Fusion for Connected Driving: A Review. IEEE Access, 2022, 10, 85030-85049.	2.6	3
250	Automated Vehicle Detection Systems Data as a Promising Approach for Roadway Construction Planning: The Case of Dallas, Texas, Highway System. Transportation Research Record, 2023, 2677, 474-489.	1.0	0
251	Estimation and Reliability Research of Post-Earthquake Traffic Travel Time Distribution Based on Floating Car Data. Applied Sciences (Switzerland), 2022, 12, 9129.	1.3	1
252	Spatiotemporal grid-based crash prediction—application of a transparent deep hybrid modeling framework. Neural Computing and Applications, 2022, 34, 20655-20669.	3.2	6
253	Who Was Wrong? An Object Detection Based Responsibility Assessment System for Crossroad Vehicle Collisions â€. Al, 2022, 3, 844-862.	2.1	1
254	Framework and operation of digital twin smart freeway. IET Intelligent Transport Systems, 2023, 17, 620-633.	1.7	1
255	Investigating pedestrian behaviour in urban environments: A Wi-Fi tracking and machine learning approach. , 2023, 2, 100049.		10

#	Article	IF	CITATIONS
256	Approach to Detection and Elimination of Contradictions in big Data Bases for Analytics Concerns of Urban Passenger Transport. , 2022, , .		0
257	Exploration of the contributing factors to the walking and biking travel frequency using multi-level joint models with endogeneity. Journal of Traffic and Transportation Engineering (English Edition), 2022, 9, 1044-1054.	2.0	1
258	Investigating and modeling the influence of PET-types on crossing conflicts at urban unsignalized intersections in India. International Journal of Injury Control and Safety Promotion, 2023, 30, 239-254.	1.0	5
259	A Survey on Big Data in Pharmacology, Toxicology and Pharmaceutics. Big Data and Cognitive Computing, 2022, 6, 161.	2.9	4
260	Gate violation prediction at highway-rail grade crossings using tree-based ensemble techniques. Journal of Transportation Safety and Security, 0, , 1-20.	1.1	0
261	Influence of Traffic Parameters on the Spatial Distribution of Crashes on a Freeway to Increase Safety. Sustainability, 2023, 15, 493.	1.6	1
262	A Survey on Big Data Technologies and Their Applications to the Metaverse: Past, Current and Future. Mathematics, 2023, 11, 96.	1.1	12
263	Big Data Analytics for Supply Chain Transformation: A Systematic Literature Review Using SCOR Framework. EAI/Springer Innovations in Communication and Computing, 2023, , 1-50.	0.9	3
264	An assessment of machine learning and data balancing techniques for evaluating downgrade truck crash severity prediction in Wyoming. Journal of Sustainable Development of Transport and Logistics, 2022, 7, 6-24.	0.3	1
265	A spatial data integration and visualization approach for occupational health and safety risks management: Application to Algerian electricity and gas company. Electronic Journal of Information Systems in Developing Countries, 2023, 89, .	0.9	0
266	An IoT and spatial Big data based architecture for monitoring Occupational Health Risks exposure. , 2022, , .		1
267	A methodology for prioritizing safety indicators using individual vehicle trajectory data. Journal of Transportation Safety and Security, 2024, 16, 18-42.	1.1	0
268	A Review of Big Data in Road Freight Transport Modeling: Gaps and Potentials. , 2023, 5, .		2
269	System-level impacts of en-route information sharing considering adaptive routing. Transportation Research Part C: Emerging Technologies, 2023, 149, 104075.	3.9	1
270	Investigating the impacts of driver's risky driving behavior on traffic crash risk detection model. Journal of Transportation Safety and Security, 2024, 16, 130-156.	1.1	0
271	Applications of Big Data technology in Intelligent Transportation System. , 0, 37, 64-71.		2
272	Utilizing angle-based outlier detection method with sliding window mechanism to identify real-time crash risk. Journal of Transportation Safety and Security, 2024, 16, 157-174.	1.1	0
273	Investigating the effect of road condition and vacation on crash severity using machine learning algorithms. International Journal of Injury Control and Safety Promotion, 2023, 30, 392-402.	1.0	2

#	Article	IF	CITATIONS
274	Improving Real-Time Intelligent Transportation Systems in Predicting Road Accident. Lecture Notes in Electrical Engineering, 2023, , 225-239.	0.3	0
277	Mobility Data Analytics withÂKNOT: The KNime mObility Toolkit. Lecture Notes in Computer Science, 2023, , 95-104.	1.0	Ο
280	Using Computer Vision to Analyze the Sequence of Vehicles Passing Through Regulated Intersections. , 2023, , .		0
288	ESCA: Embedded System Configuration Assistant. Lecture Notes in Networks and Systems, 2023, , 303-317.	0.5	0
294	Safety Performance of Traffic State in Eaving Segments with Different Lane Configurations. , 2023, , .		0
297	Big Data Techniques Utilization in Intelligent Transportation System Environment. Communications in Computer and Information Science, 2024, , 368-383.	0.4	0