Pan Lu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3180732/publications.pdf

Version: 2024-02-01

56	867	567281 15	526287 27
papers	citations	h-index	g-index

56	56	56	702
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Detecting sources of ride roughness by ensemble-connected vehicle signals. International Journal of Pavement Engineering, 2023, 24, .	4.4	2
2	Mechanisticâ€“Empirical Analysis of Pavement Performance Considering Dynamic Axle Load Spectra Due to Longitudinal Unevenness. Applied Sciences (Switzerland), 2022, 12, 2600.	2.5	3
3	Technology Developments and Impacts of Connected and Autonomous Vehicles: An Overview. Smart Cities, 2022, 5, 382-404.	9.4	32
4	Statistical Safety Performance Models considering Pavement and Roadway Characteristics. Journal of Advanced Transportation, 2022, 2022, 1-12.	1.7	3
5	An Automated Rail Extraction Framework for Low-Density LiDAR Data Without Sensor Configuration Information. IEEE Sensors Journal, 2022, 22, 13234-13243.	4.7	3
6	Missing Pavement Performance Data Imputation Using Graph Neural Networks. Transportation Research Record, 2022, 2676, 409-419.	1.9	3
7	Multi-objective optimization of pavement preservation strategy considering agency cost and environmental impact. International Journal of Sustainable Transportation, 2021, 15, 826-836.	4.1	12
8	Surface Modification of Carbon Nanotubes Using Carboxymethyl Cellulose for Enhanced Stress Sensing in Smart Cementitious Composites. IEEE Sensors Journal, 2021, , 1-1.	4.7	9
9	A Review of Car-Following Models and Modeling Tools for Human and Autonomous-Ready Driving Behaviors in Micro-Simulation. Smart Cities, 2021, 4, 314-335.	9.4	63
10	Signal Feature Extraction and Combination to Enhance the Detection and Localization of Railroad Track Irregularities. IEEE Sensors Journal, 2021, 21, 6555-6563.	4.7	4
11	Detection of Pavement Maintenance Treatments using Deep-Learning Network. Transportation Research Record, 2021, 2675, 1434-1443.	1.9	9
12	Investigating the effectiveness of safety countermeasures at highway-rail at-grade crossings using a competing risk model. Journal of Safety Research, 2021, 78, 251-261.	3.6	4
13	Review of Emerging Technologies and Issues in Rail and Track Inspection for Local Lines in the United States. Journal of Transportation Engineering Part A: Systems, 2021, 147, .	1.4	4
14	A deep learning approach for imbalanced crash data in predicting highway-rail grade crossings accidents. Reliability Engineering and System Safety, 2021, 216, 108019.	8.9	32
15	Quantifying greenhouse gas emission of asphalt pavement preservation at construction and use stages using life-cycle assessment. International Journal of Sustainable Transportation, 2020, 14, 25-34.	4.1	41
16	Signal Filter Cut-Off Frequency Determination to Enhance the Accuracy of Rail Track Irregularity Detection and Localization. IEEE Sensors Journal, 2020, 20, 1393-1399.	4.7	9
17	Weigh-In-Motion System in Flexible Pavements Using Fiber Bragg Grating Sensors Part A: Concept. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5136-5147.	8.0	12
18	Enhancement of signals from connected vehicles to detect roadway and railway anomalies. Measurement Science and Technology, 2020, 31, 035105.	2.6	9

#	Article	IF	Citations
19	A crash severity analysis at highway-rail grade crossings: The random survival forest method. Accident Analysis and Prevention, 2020, 144, 105683.	5.7	8
20	Surface Treatment of Carbon Nanotubes Using Modified Tapioca Starch for Improved Force Detection Consistency in Smart Cementitious Materials. Sensors, 2020, 20, 3985.	3.8	4
21	A Simultaneous Safety Analysis of Crash Frequency and Severity for Highway-Rail Grade Crossings: The Competing Risks Method. Journal of Advanced Transportation, 2020, 2020, 1-13.	1.7	7
22	A Gradient Boosting Crash Prediction Approach for Highway-Rail Grade Crossing Crash Analysis. Journal of Advanced Transportation, 2020, 2020, 1-10.	1.7	15
23	Internal crack detection in concrete pavement using discrete strain sensors. Journal of Civil Structural Health Monitoring, 2020, 10, 345-356.	3.9	9
24	Accident Prediction Accuracy Assessment for Highway-Rail Grade Crossings Using Random Forest Algorithm Compared with Decision Tree. Reliability Engineering and System Safety, 2020, 200, 106931.	8.9	116
25	Impact of Forest Road Maintenance Policies on Log Transportation Cost, Routing, and Carbon-Emission Trade-Offs: Oregon Case Study. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	1.4	11
26	Forecasting Class I Railroad Fuel Consumption by Train Type. Transportation Research Record, 2020, 2674, 284-290.	1.9	1
27	Measuring Passenger Car Equivalents (PCE) for Heavy Vehicle on Two Lane Highway Segments Operating Under Various Traffic Conditions. Journal of Advanced Transportation, 2020, 2020, 1-9.	1.7	5
28	Geometric effect analysis of highway-rail grade crossing safety performance. Accident Analysis and Prevention, 2020, 138, 105470.	5.7	20
29	A Modal Perturbation Method for Eigenvalue Problem of Non-Proportionally Damped System. Applied Sciences (Switzerland), 2020, 10, 341.	2.5	2
30	Predicting Highwayâ€“Rail Grade Crossing Collision Risk by Neural Network Systems. Journal of Transportation Engineering Part A: Systems, 2019, 145, .	1.4	16
31	Prediction of Bridge Component Ratings Using Ordinal Logistic Regression Model. Mathematical Problems in Engineering, 2019, 2019, 1-11.	1.1	18
32	Dynamic Properties of Sand-Sawdust Mixture for Modeling Deposit Soil. Applied Sciences (Switzerland), 2019, 9, 3863.	2.5	4
33	Railroad Track Condition Monitoring Using Inertial Sensors and Digital Signal Processing: A Review. IEEE Sensors Journal, 2019, 19, 25-33.	4.7	24
34	Automatic Rail Track Surface Anomaly Detection with Smartphone Based Monitoring System. DEStech Transactions on Engineering and Technology Research, 2019, , .	0.0	2
35	Variability of Track Investment with Traffic for Class I Railroads in the United States. Modern Economy, 2019, 10, 1198-1210.	0.5	0
36	Train speed estimation using low-cost GPS receivers. , 2019, , .		0

#	Article	IF	Citations
37	Sensor system benefits and costs in positive train control. , 2019, , .		0
38	Experimental crack detection in concrete pavement using point strain sensors. , 2019, , .		1
39	Vehicle Classification System Using In-Pavement Fiber Bragg Grating Sensors. IEEE Sensors Journal, 2018, 18, 2807-2815.	4.7	28
40	Commercial truck crash injury severity analysis using gradient boosting data mining model. Journal of Safety Research, 2018, 65, 115-124.	3.6	113
41	Mining Connected Vehicle Data for Beneficial Patterns in Dubai Taxi Operations. Journal of Advanced Transportation, 2018, 2018, 1-8.	1.7	6
42	Road sensor network for smart city applications. , 2018, , .		1
43	Bottom-up crack detection in concrete pavements using in-pavement strain sensors. , 2018, , .		4
44	Optimal System Design for Weigh-In-Motion Measurements Using In-Pavement Strain Sensors. IEEE Sensors Journal, 2017, 17, 7677-7684.	4.7	10
45	Accident prediction model for public highway-rail grade crossings. Accident Analysis and Prevention, 2016, 90, 73-81.	5.7	47
46	Decision Tree Approach to Accident Prediction for Highwayâ€“Rail Grade Crossings: Empirical Analysis. Transportation Research Record, 2016, 2545, 115-122.	1.9	33
47	Railroad Energy Efficiency in the United States: Analytical and Statistical Analysis. Journal of Transportation Engineering, 2014, 140, 23-30.	0.9	7
48	Comparing rail fuel efficiency with truck and waterway. Transportation Research, Part D: Transport and Environment, 2013, 24, 69-75.	6.8	15
49	Multiobjective Pavement-Preservation Decision Making with Simulated Constraint Boundary Programming. Journal of Transportation Engineering, 2013, 139, 880-888.	0.9	18
50	Pavement Treatment Short-Term Effectiveness in IRI Change Using Long-Term Pavement Program Data. Journal of Transportation Engineering, 2012, 138, 1297-1302.	0.9	38
51	Modeling Bridge Condition Levels in the United States. Journal of Civil Engineering and Architecture, 2012, 6, .	0.1	1
52	Short-Term Electricity Load Forecasting Based on ICA and LSSVM. , 2009, , .		5
53	Distribution Centers Site Selection Based on KPCA-SVRM. , 2008, , .		1
54	Electricity Load Forecasting Using Rough Set Attribute Reduction Algorithm Based on Immune Genetic Algorithm and Support Vector Machines. , 2008, , .		8

#	Article	IF	Citations
55	Combining KPCA with Support Vector Regression Machine for Short-Term Electricity Load Forecasting. , 2008, , .		0
56	Electricity Load Forecasting Based on Adaptive Quantum-Behaved Particle Swarm Optimization and Support Vector Machines on Global Level. , 2008, , .		15