

Sikai Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5234747/publications.pdf>

Version: 2024-02-01

34
papers

678
citations

687363

13
h-index

580821

25
g-index

34
all docs

34
docs citations

34
times ranked

435
citing authors

#	ARTICLE	IF	CITATIONS
1	Graph neural network and reinforcement learning for multi-agent cooperative control of connected autonomous vehicles. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 838-857.	9.8	103
2	Impact of road-surface condition on rural highway safety: A multivariate random parameters negative binomial approach. <i>Analytic Methods in Accident Research</i> , 2017, 16, 75-89.	8.2	83
3	A deep learning algorithm for simulating autonomous driving considering prior knowledge and temporal information. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 305-321.	9.8	79
4	Methodology for Probabilistic Modeling of Highway Bridge Infrastructure Condition: Accounting for Improvement Effectiveness and Incorporating Random Effects. <i>Journal of Infrastructure Systems</i> , 2017, 23, .	1.8	43
5	Safety sensitivity to roadway characteristics: A comparison across highway classes. <i>Accident Analysis and Prevention</i> , 2019, 123, 39-50.	5.7	43
6	Safety impacts of pavement surface roughness at two-lane and multi-lane highways: accounting for heterogeneity and seemingly unrelated correlation across crash severities. <i>Transportmetrica A: Transport Science</i> , 2019, 15, 18-33.	2.0	42
7	Space-weighted information fusion using deep reinforcement learning: The context of tactical control of lane-changing autonomous vehicles and connectivity range assessment. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 128, 103192.	7.6	39
8	Predicting Cost Escalation Pathways and Deviation Severities of Infrastructure Projects Using Risk-Based Econometric Models and Monte Carlo Simulation. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2017, 32, 620-640.	9.8	32
9	Vehicle Connectivity and Automation: A Sibling Relationship. <i>Frontiers in Built Environment</i> , 2020, 6, .	2.3	21
10	Analysing the main and interaction effects of commercial vehicle mix and roadway attributes on crash rates using a Bayesian random-parameter Tobit model. <i>Accident Analysis and Prevention</i> , 2021, 154, 106089.	5.7	20
11	Network-level scheduling of road construction projects considering user and business impacts. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 650-667.	9.8	19
12	Acquiring insights into infrastructure repair policy using discrete choice models. <i>Transportation Research, Part A: Policy and Practice</i> , 2018, 113, 491-508.	4.2	15
13	Rural two-lane highway shoulder and lane width policy evaluation using multiobjective optimization. <i>Transportmetrica A: Transport Science</i> , 2017, 13, 631-656.	2.0	14
14	Optimizing the selection and scheduling of multi-class projects using a Stackelberg framework. <i>European Journal of Operational Research</i> , 2020, 286, 508-522.	5.7	14
15	Spatio-weighted information fusion and DRL-based control for connected autonomous vehicles. , 2020, , .		14
16	A Methodology to Account for One-Way Infrastructure Interdependency in Preservation Activity Scheduling. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2018, 33, 905-925.	9.8	13
17	Urban road space allocation incorporating the safety and construction cost impacts of lane and footpath widths. <i>Journal of Safety Research</i> , 2020, 75, 222-232.	3.6	13
18	Development and testing of an image transformer for explainable autonomous driving systems. <i>Journal of Intelligent and Connected Vehicles</i> , 2022, 5, 235-249.	7.4	10

#	ARTICLE	IF	CITATIONS
19	Highway Design and Safety Consequences: A Case Study of Interstate Highway Vertical Grades. Journal of Advanced Transportation, 2018, 2018, 1-13.	1.7	8
20	The effect of risk perception and other psychological factors on mobile phone use while crossing the street among pedestrians. Accident Analysis and Prevention, 2022, 170, 106643.	5.7	8
21	GAQ-EBkSP: A DRL-based Urban Traffic Dynamic Rerouting Framework using Fog-Cloud Architecture. , 2021, , .		6
22	Image transformer for explainable autonomous driving system. , 2021, , .		6
23	Costs and benefits of highway resurfacing: a case study of Interstate 465 in Indiana, USA. Infrastructure Asset Management, 2018, 5, 45-55.	1.6	5
24	Examining Relationship between Infrastructure Investment and Performance Using State-Level Data. Journal of Infrastructure Systems, 2019, 25, .	1.8	5
25	Extracting Topographic Data from Online Sources to Generate a Digital Elevation Model for Highway Preliminary Geometric Design. Journal of Transportation Engineering Part A: Systems, 2019, 145, .	1.4	5
26	A Cooperative Crash Avoidance Framework for Autonomous Vehicle under Collision-Imminent Situations in Mixed Traffic Stream. , 2021, , .		5
27	Scalable Traffic Signal Controls Using Fog-Cloud Based Multiagent Reinforcement Learning. Computers, 2022, 11, 38.	3.3	4
28	Inputs for bridge painting decision support: a synthesis. Infrastructure Asset Management, 2018, 5, 56-74.	1.6	3
29	Safety Impacts of Pavement Rehabilitation at Multi-Lane Highways. , 2016, , .		2
30	Leveraging UAV Capabilities for Vehicle Tracking and Collision Risk Assessment at Road Intersections. Sustainability, 2022, 14, 4034.	3.2	2
31	A Framework for Lane-Change Maneuvers of Connected Autonomous Vehicles in a Mixed-Traffic Environment. Electronics (Switzerland), 2022, 11, 1350.	3.1	2
32	Study on the Taxicab Industry Planning Restricted to the Policy of the Government in China. , 2011, , .		0
33	Tradeoffs between safe/comfortable headways versus mobility-enhancing headways in an automated driving environment: preliminary insights using a driving simulator experiment. Frontiers in Engineering and Built Environment, 2021, ahead-of-print, .	1.5	0
34	A Nonparametric Efficiency Methodology for Comparative Assessment of Infrastructure Agency Performance. Transportation Engineering, 2021, 6, 100092.	4.2	0