

Chengbo Ai

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

336
citations

840776

11
h-index

839539

18
g-index

23
all docs

23
docs citations

23
times ranked

218
citing authors

#	ARTICLE	IF	CITATIONS
1	A framework for mode classification in multimodal environments using radar-based sensors. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2023, 27, 441-458.	4.2	1
2	Crash proximity and equivalent property damage calculation techniques: An investigation using a novel horizontal curve dataset. Accident Analysis and Prevention, 2022, 166, 106550.	5.7	7
3	An Automated Rail Extraction Framework for Low-Density LiDAR Data Without Sensor Configuration Information. IEEE Sensors Journal, 2022, 22, 13234-13243.	4.7	3
4	Using 3D laser scanning for estimating the capacity of corroded steel bridge girders: Experiments, computations and analytical solutions. Engineering Structures, 2022, 265, 114407.	5.3	17
5	A Spatial Comparison of Roadway Lighting and Nonmotorist Crashes in Cambridge, MA. Transportation Research Record, 2021, 2675, 491-500.	1.9	0
6	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
7	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
8	Machine vision-based surface crack analysis for transportation infrastructure. Automation in Construction, 2021, 132, 103973.	9.8	49
9	Evaluation of small unmanned aerial system highway volume and speed sensing applications. IET Intelligent Transport Systems, 2021, 15, 84-97.	3.0	1
10	A network-level sidewalk inventory method using mobile LiDAR and deep learning. Transportation Research Part C: Emerging Technologies, 2020, 119, 102772.	7.6	26
11	An anisotropic heat diffusion model for enhancing the extraction of underground rail track fasteners under extremely low and uneven illumination conditions. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2019, 233, 410-419.	2.0	4
12	A Nonballasted Rail Track Slab Crack Identification Method Using a Level-Set-Based Active Contour Model. Computer-Aided Civil and Infrastructure Engineering, 2018, 33, 571-584.	9.8	14
13	Identification of Site Characteristics for Proactive High-Friction Surface Treatment Site Selection using Sensor-Based, Detailed, Location-Referenced Curve Characteristics Data. Transportation Research Record, 2018, 2672, 69-80.	1.9	0
14	Automated Superelevation Measurement Method Using a Low-Cost Mobile Device: An Efficient, Cost-Effective Approach Toward Intelligent Horizontal Curve Safety Assessment. Transportation Research Record, 2017, 2621, 62-70.	1.9	6
15	Automated Sidewalk Assessment Method for Americans with Disabilities Act Compliance Using Three-Dimensional Mobile Lidar. Transportation Research Record, 2016, 2542, 25-32.	1.9	25
16	An automated sign retroreflectivity condition evaluation methodology using mobile LIDAR and computer vision. Transportation Research Part C: Emerging Technologies, 2016, 63, 96-113.	7.6	34
17	Geometry Preserving Active Polygon-Incorporated Sign Detection Algorithm. Journal of Computing in Civil Engineering, 2015, 29, 04014092.	4.7	4
18	Critical Assessment of an Enhanced Traffic Sign Detection Method Using Mobile LiDAR and INS Technologies. Journal of Transportation Engineering, 2015, 141, .	0.9	36

#	ARTICLE	IF	CITATIONS
19	Automatic Horizontal Curve Identification and Measurement Method Using GPS Data. Journal of Transportation Engineering, 2015, 141, .	0.9	36
20	Mobile Cross-Slope Measurement Method Using Lidar Technology. Transportation Research Record, 2013, 2367, 53-59.	1.9	30
21	Hybrid Active Contourâ€“Incorporated Sign Detection Algorithm. Journal of Computing in Civil Engineering, 2012, 26, 28-36.	4.7	12
22	Critical Assessment of Measuring Concrete Joint Faulting Using 3D Continuous Pavement Profile Data. Journal of Transportation Engineering, 2012, 138, 1291-1296.	0.9	22
23	Automatic Truck Processing Time Extraction at Marine Container Terminal Gates Using Low-Frame-Rate Images. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2012, 16, 211-225.	4.2	1