

# Chengbo Ai

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4089075/publications.pdf>

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	Machine vision-based surface crack analysis for transportation infrastructure. Automation in Construction, 2021, 132, 103973.	9.8	49
2	Critical Assessment of an Enhanced Traffic Sign Detection Method Using Mobile LiDAR and INS Technologies. Journal of Transportation Engineering, 2015, 141, .	0.9	36
3	Automatic Horizontal Curve Identification and Measurement Method Using GPS Data. Journal of Transportation Engineering, 2015, 141, .	0.9	36
4	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
5	Mobile Cross-Slope Measurement Method Using Lidar Technology. Transportation Research Record, 2013, 2367, 53-59.	1.9	30
6	A network-level sidewalk inventory method using mobile LiDAR and deep learning. Transportation Research Part C: Emerging Technologies, 2020, 119, 102772.	7.6	26
7	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
8	Critical Assessment of Measuring Concrete Joint Faulting Using 3D Continuous Pavement Profile Data. Journal of Transportation Engineering, 2012, 138, 1291-1296.	0.9	22
9	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
10	A Nonballasted Rail Track Slab Crack Identification Method Using a Levelâ€Setâ€Based Active Contour Model. Computer-Aided Civil and Infrastructure Engineering, 2018, 33, 571-584.	9.8	14
11	Hybrid Active Contourâ€Incorporated Sign Detection Algorithm. Journal of Computing in Civil Engineering, 2012, 26, 28-36.	4.7	12
12	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
13	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
14	Geometry Preserving Active Polygon-Incorporated Sign Detection Algorithm. Journal of Computing in Civil Engineering, 2015, 29, 04014092.	4.7	4
15	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
16	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
17	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
18	An Automated Rail Extraction Framework for Low-Density LiDAR Data Without Sensor Configuration Information. IEEE Sensors Journal, 2022, 22, 13234-13243.	4.7	3

#	ARTICLE	IF	CITATIONS
19	Automatic Truck Processing Time Extraction at Marine Container Terminal Gates Using Low-Frame-Rate Images. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2012, 16, 211-225.	4.2	1
20	Evaluation of small unmanned aerial system highway volume and speed sensing applications. <i>Intelligent Transport Systems</i> , 2021, 15, 84-97.	3.0	1
21	A framework for mode classification in multimodal environments using radar-based sensors. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2023, 27, 441-458.	4.2	1
22	Identification of Site Characteristics for Proactive High-Friction Surface Treatment Site Selection using Sensor-Based, Detailed, Location-Referenced Curve Characteristics Data. <i>Transportation Research Record</i> , 2018, 2672, 69-80.	1.9	0
23	A Spatial Comparison of Roadway Lighting and Nonmotorist Crashes in Cambridge, MA. <i>Transportation Research Record</i> , 2021, 2675, 491-500.	1.9	0