

Yichang Tsai

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

332
citations

933264

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839398

18
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28
all docs

28
docs citations

28
times ranked

317
citing authors

#	ARTICLE	IF	CITATIONS
1	Detecting Curves with Unknown Endpoints and Arbitrary Topology Using Minimal Paths. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1952-1965.	9.7	87
2	Horizontal Roadway Curvature Computation Algorithm Using Vision Technology. Computer-Aided Civil and Infrastructure Engineering, 2010, 25, 78-88.	6.3	44
3	Automatic Horizontal Curve Identification and Measurement Method Using GPS Data. Journal of Transportation Engineering, 2015, 141, .	0.9	36
4	Critical Assessment of Measuring Concrete Joint Faulting Using 3D Continuous Pavement Profile Data. Journal of Transportation Engineering, 2012, 138, 1291-1296.	0.9	22
5	Homography-Based Vision Algorithm for Traffic Sign Attribute Computation. Computer-Aided Civil and Infrastructure Engineering, 2009, 24, 385-400.	6.3	19
6	Shape- and Texture-Based 1-D Image Processing Algorithm for Real-Time Stop Sign Road Inventory Data Collection. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2002, 7, 213-234.	2.6	18
7	An Area-Based Faulting Measurement Method Using Three-Dimensional Pavement Data. Transportation Research Record, 2018, 2672, 41-49.	1.0	18
8	Automatic Detection of Deficient Video Log Images Using a Histogram Equity Index and an Adaptive Gaussian Mixture Model. Computer-Aided Civil and Infrastructure Engineering, 2010, 25, 479-493.	6.3	15
9	A Generalized Framework for Parallelizing Traffic Sign Inventory of Video Log Images Using Multicore Processors. Computer-Aided Civil and Infrastructure Engineering, 2012, 27, 476-493.	6.3	13
10	Constrained Fuzzy c-Mean Clustering Algorithm for Determining Bridge Let Projects. Journal of Computing in Civil Engineering, 2004, 18, 215-225.	2.5	11
11	Use of Three-Dimensional Pavement Surface Data to Analyze Crack Deterioration: Pilot Study on Georgia State Route 26. Transportation Research Record, 2016, 2589, 154-161.	1.0	10
12	Five-Year Project-Level Statewide Pavement Performance Forecasting Using a Two-Stage Machine Learning Approach Based on Long Short-Term Memory. Transportation Research Record, 2021, 2675, 280-290.	1.0	6
13	Recurrent Neural Networks for Pavement Performance Forecasting: Review and Model Performance Comparison. Transportation Research Record, 2023, 2677, 610-624.	1.0	5
14	Use of Crack Characteristics in Crack Sealing Performance Modeling and Network-Level Project Selection. Transportation Research Record, 2017, 2612, 11-19.	1.0	4
15	New Pavement Performance Indicators using Crack Fundamental Elements and 3D Pavement Surface Data with Multiple-Timestamp Registration for Crack Deterioration Analysis and Optimal Treatment Determination. Transportation Research Record, 2020, 2674, 115-126.	1.0	4
16	Enhancing Decision-Making on Maintenance, Rehabilitation, and Reconstruction of Jointed Plain Concrete Pavements using Slab-Based Cracking Data and Life-Cycle Cost Analysis. Transportation Research Record, 2020, 2674, 511-522.	1.0	4
17	Shape- and Texture-Based 1-D Image Processing Algorithm for Real-Time Stop Sign Road Inventory Data Collection. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2002, 7, 213-234.	2.6	4
18	Adoption of 3D Laser Imaging Systems for Automated Pavement Condition Assessment in the United States: Challenges and Opportunities. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
19	High Friction Surface Treatment Deterioration Analysis and Characteristics Study. Transportation Research Record, 2021, 2675, 370-384.	1.0	3
20	Quantitative Assessments of Crack Sealing Benefits by 3D Laser Technology. Transportation Research Record, 0, , 036119812110278.	1.0	2
21	Nonparametric Lens Debris Detection of Video Log Images Using Hysteresis Updating. Journal of Computing in Civil Engineering, 2012, 26, 161-171.	2.5	1
22	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.	2.6	1
23	Leveraging State DOT Technology and Practice for Cost-Effective Pavement Management by Local Government Authorities. Transportation Research Record, 2018, 2672, 19-28.	1.0	1
24	Jointed Plain Concrete (JPC) Pavement Variability and Method to Complement JPC Design with 3D Pavement Data. Transportation Research Record, 2021, 2675, 332-344.	1.0	1
25	Re-engineered Roadway Transportation Data Inventory Using GPS/GIS. , 2004, , 542.		0
26	Detection and Recognition of U.S. Warning Signs on Curves. , 2017, , .		0
27	A 3D Slab-Based Methodology to predict end of life for concrete pavements. International Journal of Pavement Engineering, 2022, 23, 4966-4976.	2.2	0
28	JPCP Slab-Level condition forecasting for slab replacement planning using 3D pavement surface data. International Journal of Pavement Engineering, 0, , 1-8.	2.2	0