

Hao Pu

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

664
citations

687363

13
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

260
citing authors

#	ARTICLE	IF	CITATIONS
1	Mountain Railway Alignment Optimization with Bidirectional Distance Transform and Genetic Algorithm. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2017, 32, 691-709.	9.8	88
2	Methodology for optimizing constrained 3-dimensional railway alignments in mountainous terrain. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 68, 549-565.	7.6	68
3	Elastic-plastic seismic response of CRTS II slab ballastless track system on high-speed railway bridges. <i>Science China Technological Sciences</i> , 2017, 60, 865-871.	4.0	54
4	A Method for Automatically Recreating the Horizontal Alignment Geometry of Existing Railways. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2019, 34, 71-94.	9.8	53
5	A three-dimensional distance transform for optimizing constrained mountain railway alignments. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2019, 34, 972-990.	9.8	51
6	Mountain railway alignment optimization using stepwise & hybrid particle swarm optimization incorporating genetic operators. <i>Applied Soft Computing Journal</i> , 2019, 78, 41-57.	7.2	51
7	Concurrent optimization of mountain railway alignment and station locations using a distance transform algorithm. <i>Computers and Industrial Engineering</i> , 2019, 127, 1297-1314.	6.3	42
8	Mountain railway alignment optimization considering geological impacts: A cost-hazard bi-objective model. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 1365-1386.	9.8	32
9	Bi-objective mountain railway alignment optimization incorporating seismic risk assessment. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 143-163.	9.8	27
10	Cracking Performance of an Operational Tunnel Lining Due to Local Construction Defects. <i>International Journal of Geomechanics</i> , 2019, 19, .	2.7	26
11	Parallel Three-Dimensional Distance Transform for Railway Alignment Optimization Using OpenMP. <i>Journal of Transportation Engineering Part A: Systems</i> , 2020, 146, .	1.4	26
12	Simultaneous optimization of 3D alignments and station locations for dedicated high-speed railways. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 405-426.	9.8	24
13	Railway Alignment Optimization in Mountainous Regions Considering Spatial Geological Hazards: A Sustainable Safety Perspective. <i>Sustainability</i> , 2021, 13, 1661.	3.2	23
14	Railway Alignment Optimization Considering Lifecycle Costs. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2022, 14, 22-40.	3.8	13
15	Optimization of grade-separated road and railway crossings based on a distance transform algorithm. <i>Engineering Optimization</i> , 2022, 54, 232-251.	2.6	13
16	A Global Iterations Method for Recreating Railway Vertical Alignment Considering Multiple Constraints. <i>IEEE Access</i> , 2019, 7, 121199-121211.	4.2	12
17	Robust Optimization Method for Mountain Railway Alignments Considering Preference Uncertainty for Costs and Seismic Risks. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2022, 8, .	1.7	10
18	Configuration Analysis of Two-Dimensional Resection Networks. <i>Journal of Surveying Engineering</i> , - ASCE, 2016, 142, .	1.7	8

#	ARTICLE	IF	CITATIONS
19	Maximum Gradient Decision-Making for Railways Based on Convolutional Neural Network. <i>Journal of Transportation Engineering Part A: Systems</i> , 2019, 145, .	1.4	8
20	Concurrent Optimization of Mountain Railway Alignment and Station Locations With a Three-Dimensional Distance Transform Algorithm Incorporating a Perceptual Search Strategy. <i>IEEE Access</i> , 2021, 9, 34736-34754.	4.2	8
21	Mountain railway alignment optimization integrating layouts of large-scale auxiliary construction projects. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2023, 38, 433-453.	9.8	8
22	Railway Alignment Optimization Under Uncertainty With a Minimax Robust Method. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2023, 15, 333-346.	3.8	7
23	Recreating Existing Railway Horizontal Alignments Automatically Using Overall Swing Iteration. <i>Journal of Transportation Engineering Part A: Systems</i> , 2022, 148, .	1.4	5
24	Modelling and optimization of constrained alignments for existing railway reconstruction. <i>International Journal of Rail Transportation</i> , 2023, 11, 428-447.	2.7	4
25	A 3D digital modelling method for railway station subgrade based on generalized hexahedron. <i>International Journal of Rail Transportation</i> , 2021, 9, 79-99.	2.7	3
26	Response to discussion on "Simultaneous Optimization of 3D Alignments and Station Locations for Dedicated High-Speed Railways," <i>Computer-Aided Civil and Infrastructure Engineering</i> , 37:4, March 2022. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 534-536.	9.8	0