Taoran Song

List of Publications by Year
in descending order

17 papers	368 citations	840776 11 h-index	940533 16 g-index
17 all docs	17 docs citations	17 times ranked	95 citing authors

#	Article	IF	Citations
1	A three‐dimensional distance transform for optimizing constrained mountain railway alignments. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 972-990.	9.8	51
2	Mountain railway alignment optimization using stepwise & hybrid particle swarm optimization incorporating genetic operators. Applied Soft Computing Journal, 2019, 78, 41-57.	7.2	51
3	Multi-objective railway alignment optimization considering costs and environmental impacts. Applied Soft Computing Journal, 2020, 89, 106105.	7.2	46
4	Mountain railway alignment optimization considering geological impacts: A cost‐hazard bi‐objective model. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 1365-1386.	9.8	32
5	Bi‐objective mountain railway alignment optimization incorporating seismic risk assessment. Computer-Aided Civil and Infrastructure Engineering, 2021, 36, 143-163.	9.8	27
6	Parallel Three-Dimensional Distance Transform for Railway Alignment Optimization Using OpenMP. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	1.4	26
7	Simultaneous optimization of 3D alignments and station locations for dedicated high‐speed railways. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 405-426.	9.8	24
8	Railway Alignment Optimization in Mountainous Regions Considering Spatial Geological Hazards: A Sustainable Safety Perspective. Sustainability, 2021, 13, 1661.	3.2	23
9	GIS-based multi-criteria railway design with spatial environmental considerations. Applied Geography, 2021, 131, 102449.	3.7	21
10	Railway Alignment Optimization Considering Lifecycle Costs. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 22-40.	3.8	13
11	Optimization of grade-separated road and railway crossings based on a distance transform algorithm. Engineering Optimization, 2022, 54, 232-251.	2.6	13
12	A Global Iterations Method for Recreating Railway Vertical Alignment Considering Multiple Constraints. IEEE Access, 2019, 7, 121199-121211.	4.2	12
13	Robust Optimization Method for Mountain Railway Alignments Considering Preference Uncertainty for Costs and Seismic Risks. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2022, 8, .	1.7	10
14	Mountain railway alignment optimization integrating layouts of large‐scale auxiliary construction projects. Computer-Aided Civil and Infrastructure Engineering, 2023, 38, 433-453.	9.8	8
15	Railway Alignment Optimization Under Uncertainty With a Minimax Robust Method. IEEE Intelligent Transportation Systems Magazine, 2023, 15, 333-346.	3.8	7
16	Modelling and optimization of constrained alignments for existing railway reconstruction. International Journal of Rail Transportation, 2023, 11, 428-447.	2.7	4
17	Response to discussion on â€œSimultaneous Optimization of 3â€D Alignments and Station Locations for Dedicated Highâ€Speed Railways,â€<i>Computerâ€Aided Civil and Infrastructure Engineering</i>, 37:4, March 2022. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 534-536.	9.8	0