

Pin Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,509
citations

361045

20
h-index

433756

31
g-index

32
all docs

32
docs citations

32
times ranked

588
citing authors

#	ARTICLE	IF	CITATIONS
1	Bayesian neural network-based uncertainty modelling: application to soil compressibility and undrained shear strength prediction. <i>Canadian Geotechnical Journal</i> , 2022, 59, 546-557.	1.4	45
2	Machine Learning-Based Modelling of Soil Properties for Geotechnical Design: Review, Tool Development and Comparison. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 1229-1245.	6.0	22
3	Modelling the mechanical behaviour of soils using machine learning algorithms with explicit formulations. <i>Acta Geotechnica</i> , 2022, 17, 1403-1422.	2.9	18
4	Three-dimensional quantitative analysis on granular particle shape using convolutional neural network. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2022, 46, 187-204.	1.7	10
5	Physics-Informed Multifidelity Residual Neural Networks for Hydromechanical Modeling of Granular Soils and Foundation Considering Internal Erosion. <i>Journal of Engineering Mechanics - ASCE</i> , 2022, 148, .	1.6	33
6	Image-Based 3D Reconstruction of Granular Grains via Hybrid Algorithm and Level Set with Convolution Kernel. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2022, 148, .	1.5	7
7	Physics-constrained hierarchical data-driven modelling framework for complex path-dependent behaviour of soils. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2022, 46, 1831-1850.	1.7	22
8	Intelligent modelling of clay compressibility using hybrid meta-heuristic and machine learning algorithms. <i>Geoscience Frontiers</i> , 2021, 12, 441-452.	4.3	73
9	State-of-the-Art Review of Machine Learning Applications in Constitutive Modeling of Soils. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 3661-3686.	6.0	50
10	An AIoT-based system for real-time monitoring of tunnel construction. <i>Tunnelling and Underground Space Technology</i> , 2021, 109, 103766.	3.0	30
11	Machine learning-based uncertainty modelling of mechanical properties of soft clays relating to time-dependent behavior and its application. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2021, 45, 1588-1602.	1.7	33
12	BiLSTM-Based Soil-Structure Interface Modeling. <i>International Journal of Geomechanics</i> , 2021, 21, .	1.3	14
13	A novel deep learning-based modelling strategy from image of particles to mechanical properties for granular materials with CNN and BiLSTM. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 382, 113858.	3.4	48
14	CNN-Based Intelligent Method for Identifying GSD of Granular Soils. <i>International Journal of Geomechanics</i> , 2021, 21, .	1.3	3
15	A novel hybrid surrogate intelligent model for creep index prediction based on particle swarm optimization and random forest. <i>Engineering Geology</i> , 2020, 265, 105328.	2.9	116
16	Ground settlement induced by tunneling crossing interface of water-bearing mixed ground: A lesson from Changsha, China. <i>Tunnelling and Underground Space Technology</i> , 2020, 96, 103224.	3.0	27
17	A critical evaluation of machine learning and deep learning in shield-ground interaction prediction. <i>Tunnelling and Underground Space Technology</i> , 2020, 106, 103593.	3.0	75
18	Straightforward prediction for air-entry value of compacted soils using machine learning algorithms. <i>Engineering Geology</i> , 2020, 279, 105911.	2.9	20

#	ARTICLE	IF	CITATIONS
19	Ground Response to Horizontal Spoil Discharge Jet Grouting with Impacts on the Existing Tunnels. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, 05020006.	1.5	17
20	Analytical and Semi-Analytical Solutions for Describing Tunneling-Induced Transverse and Longitudinal Settlement Troughs. International Journal of Geomechanics, 2020, 20, .	1.3	15
21	An AI-based model for describing cyclic characteristics of granular materials. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 1315-1335.	1.7	57
22	Random forest based artificial intelligent model for predicting failure envelopes of caisson foundations in sand. Applied Ocean Research, 2020, 101, 102223.	1.8	26
23	A LSTM surrogate modelling approach for caisson foundations. Ocean Engineering, 2020, 204, 107263.	1.9	26
24	Reinforcement learning based optimizer for improvement of predicting tunneling-induced ground responses. Advanced Engineering Informatics, 2020, 45, 101097.	4.0	47
25	Hybrid meta-heuristic and machine learning algorithms for tunneling-induced settlement prediction: A comparative study. Tunnelling and Underground Space Technology, 2020, 99, 103383.	3.0	125
26	Real-time analysis and regulation of EPB shield steering using Random Forest. Automation in Construction, 2019, 106, 102860.	4.8	130
27	Prediction of shield tunneling-induced ground settlement using machine learning techniques. Frontiers of Structural and Civil Engineering, 2019, 13, 1363-1378.	1.2	101
28	Prediction of maximum surface settlement caused by earth pressure balance (EPB) shield tunneling with ANN methods. Soils and Foundations, 2019, 59, 284-295.	1.3	150
29	A novel feature selection method based on global sensitivity analysis with application in machine learning-based prediction model. Applied Soft Computing Journal, 2019, 85, 105859.	4.1	71
30	Deformation and stress characteristics of existing twin tunnels induced by close-distance EPBS under-crossing. Tunnelling and Underground Space Technology, 2018, 82, 468-481.	3.0	95
31	Application of Horizontal MJS Piles in Tunneling Beneath Existing Twin Tunnels. Springer Series in Geomechanics and Geoengineering, 2018, , 323-331.	0.0	3