

# Artificial Intelligence in Geotechnical Engineering

DOI: 10.1016/b978-0-12-398296-4.00008-8

Citation Report

#	ARTICLE	IF	CITATIONS
1	Loadâ€™Settlement Modeling of Axially Loaded Drilled Shafts Using CPT-Based Recurrent Neural Networks. International Journal of Geomechanics, 2014, 14, .	1.3	22
2	Use of evolutionary computing for modelling some complex problems in geotechnical engineering. Geomechanics and Geoengineering, 2015, 10, 109-125.	0.9	37
3	A review of artificial intelligence applications in shallow foundations. International Journal of Geotechnical Engineering, 2015, 9, 49-60.	1.1	36
4	Emerging artificial intelligence methods in structural engineering. Engineering Structures, 2018, 171, 170-189.	2.6	543
5	Modelling of the mechanical properties of concrete with cement ratio partially replaced by aluminium waste and sawdust ash using artificial neural network. SN Applied Sciences, 2019, 1, 1.	1.5	43
6	Prediction of Compaction Characteristics of Soils from Index Testâ€™s Results. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2019, 43, 231-248.	1.0	12
7	Prediction of geotechnical properties of clayey soils stabilised with lime using artificial neural networks (ANNs). International Journal of Geotechnical Engineering, 2019, 13, 191-203.	1.1	34
8	Prediction of collapse potential of soils using gene expression programming and parametric study. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	10
9	Improving Voting Feature Intervals for Spatial Prediction of Landslides. Mathematical Problems in Engineering, 2020, 2020, 1-15.	0.6	11
10	Design of Stiffened Slab Foundations on Reactive Soils Using 3D Numerical Modeling. International Journal of Geomechanics, 2020, 20, .	1.3	14
11	Damage evaluation of H-section steel columns under impulsive blast loads via gene expression programming. Engineering Structures, 2020, 219, 110909.	2.6	29
12	Practice of artificial intelligence in geotechnical engineering. Journal of Zhejiang University: Science A, 2020, 21, 407-411.	1.3	19
13	35â€™Years of (AI) in Geotechnical Engineering: State of the Art. Geotechnical and Geological Engineering, 2021, 39, 637-690.	0.8	72
14	A new development of ANFISâ€™GMDH optimized by PSO to predict pile bearing capacity based on experimental datasets. Engineering With Computers, 2021, 37, 685-700.	3.5	83
15	Prediction of unconfined compressive strength of cement-stabilized sandy soil in Vietnam using artificial neural networks (ANNs) model. International Journal of Geotechnical Engineering, 0, , 1-11.	1.1	14
16	Landscape simulation of small towns along Huaihe River based on geographic information system and big data analysis. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	1
17	Emerging Resilience-Enabling Technologies. , 2021, , 207-246.		0
18	Green city economic efficiency based on cloud computing and machine learning. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	3

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19	Fractal approach in expansive clay-based materials with special focus on compacted GMZ bentonite in nuclear waste disposal: a systematic review. <i>Environmental Science and Pollution Research</i> , 2021, 28, 43287-43314.	2.7	31
20	Coastline climate environment and coastal city English smart teaching simulation based on GIS system. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	2
21	A Parametric Numerical Study for Diagnosing the Failure of Large Diameter Bored Piles Using Supervised Machine Learning Approach. <i>Processes</i> , 2021, 9, 1411.	1.3	6
22	Hybridizing Neural Network with Trend-Adjusted Exponential Smoothing for Time-Dependent Resistance Forecast of Stabilized Fine Sands Under Rapid shearing. <i>Transportation Infrastructure Geotechnology</i> , 2023, 10, 62-81.	1.9	4
24	Artificial Neural Networks for Prediction of Steadman Heat Index. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2021, , 293-357.	0.3	1
25	Evaluation of Neural Network Model for Estimating Pile Load Capacity. <i>Korean Society of Hazard Mitigation</i> , 2021, 21, 221-228.	0.1	1
26	Prediction of Compression Index of Soft Soils from the Brazilian Coast Using Artificial Neural Networks and Empirical Correlations. <i>Soils and Rocks</i> , 2020, 43, 109-121.	0.2	1
27	Machine learning-based failure mode identification of double shear bolted connections in structural steel. <i>Engineering Failure Analysis</i> , 2022, 139, 106471.	1.8	8
28	Future of machine learning in geotechnics. <i>Georisk</i> , 2023, 17, 7-22.	2.6	57
29	Predictive modeling of the primary settling tanks based on artificial neural networks for estimating TSS and COD as typical effluent parameters. <i>Water Science and Technology</i> , 2022, 85, 3451-3464.	1.2	2
30	Unpacking data-centric geotechnics. <i>Underground Space (China)</i> , 2022, 7, 967-989.	3.4	32
31	An Artificial Intelligence Based Data-Driven Method for Forecasting Unconfined Compressive Strength of Cement Stabilized Soil by Deep Mixing Technique. <i>Geotechnical and Geological Engineering</i> , 2023, 41, 491-514.	0.8	9
32	Prediction models for marshall mix parameters using bio-inspired genetic programming and deep machine learning approaches: A comparative study. <i>Case Studies in Construction Materials</i> , 2023, 18, e01774.	0.8	7
33	Selected AI optimization techniques and applications in geotechnical engineering. <i>Cogent Engineering</i> , 2023, 10, .	1.1	15
34	Empirical, Statistical, and Machine Learning Techniques for Predicting Surface Settlement Induced by Tunnelling. , 2023, , 39-77.		0
35	Data-driven approximation of geotechnical dynamics to an equivalent single-degree-of-freedom vibration system based on dynamic mode decomposition. <i>Georisk</i> , 2023, 17, 77-97.	2.6	2
37	A Review on Application of Soft Computing Techniques in Geotechnical Engineering. <i>Lecture Notes in Civil Engineering</i> , 2024, , 313-322.	0.3	1