

Van-Quan Tran

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,186
citations

393982

19
h-index

395343

33
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47
all docs

47
docs citations

47
times ranked

542
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Data Splitting on Performance of Machine Learning Models in Prediction of Shear Strength of Soil. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-15.	0.6	189
2	Evaluating compressive strength of concrete made with recycled concrete aggregates using machine learning approach. <i>Construction and Building Materials</i> , 2022, 323, 126578.	3.2	92
3	Development of deep neural network model to predict the compressive strength of rubber concrete. <i>Construction and Building Materials</i> , 2021, 301, 124081.	3.2	80
4	Optimization of Artificial Intelligence System by Evolutionary Algorithm for Prediction of Axial Capacity of Rectangular Concrete Filled Steel Tubes under Compression. <i>Materials</i> , 2020, 13, 1205.	1.3	71
5	Development of an AI Model to Measure Traffic Air Pollution from Multisensor and Weather Data. <i>Sensors</i> , 2019, 19, 4941.	2.1	69
6	Prediction of Pile Axial Bearing Capacity Using Artificial Neural Network and Random Forest. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1871.	1.3	53
7	Modelisation of chloride reactive transport in concrete including thermodynamic equilibrium, kinetic control and surface complexation. <i>Cement and Concrete Research</i> , 2018, 110, 70-85.	4.6	52
8	Computational Hybrid Machine Learning Based Prediction of Shear Capacity for Steel Fiber Reinforced Concrete Beams. <i>Sustainability</i> , 2020, 12, 2709.	1.6	52
9	Design deep neural network architecture using a genetic algorithm for estimation of pile bearing capacity. <i>PLoS ONE</i> , 2020, 15, e0243030.	1.1	47
10	Extreme Learning Machine Based Prediction of Soil Shear Strength: A Sensitivity Analysis Using Monte Carlo Simulations and Feature Backward Elimination. <i>Sustainability</i> , 2020, 12, 2339.	1.6	43
11	Development of Hybrid Machine Learning Models for Predicting the Critical Buckling Load of I-Shaped Cellular Beams. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5458.	1.3	42
12	Prediction Compressive Strength of Concrete Containing GGBFS using Random Forest Model. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-12.	0.4	32
13	A numerical model including thermodynamic equilibrium, kinetic control and surface complexation in order to explain cation type effect on chloride binding capability of concrete. <i>Construction and Building Materials</i> , 2018, 191, 608-618.	3.2	30
14	Machine learning approach for investigating chloride diffusion coefficient of concrete containing supplementary cementitious materials. <i>Construction and Building Materials</i> , 2022, 328, 127103.	3.2	29
15	External sulfate attack of cementitious materials: New insights gained through numerical modeling including dissolution/precipitation kinetics and surface complexation. <i>Cement and Concrete Composites</i> , 2017, 83, 263-272.	4.6	28
16	Using machine learning techniques for predicting autogenous shrinkage of concrete incorporating superabsorbent polymers and supplementary cementitious materials. <i>Journal of Building Engineering</i> , 2022, 49, 104086.	1.6	27
17	A Novel Hybrid Model Based on a Feedforward Neural Network and One Step Secant Algorithm for Prediction of Load-Bearing Capacity of Rectangular Concrete-Filled Steel Tube Columns. <i>Molecules</i> , 2020, 25, 3486.	1.7	26
18	Parametric Investigation of Particle Swarm Optimization to Improve the Performance of the Adaptive Neuro-Fuzzy Inference System in Determining the Buckling Capacity of Circular Opening Steel Beams. <i>Materials</i> , 2020, 13, 2210.	1.3	26

#	ARTICLE	IF	CITATIONS
19	Requirements and possible simplifications for multi-ionic transport models – Case of concrete subjected to wetting-drying cycles in marine environment. <i>Construction and Building Materials</i> , 2018, 164, 799-808.	3.2	25
20	Hybrid gradient boosting with meta-heuristic algorithms prediction of unconfined compressive strength of stabilized soil based on initial soil properties, mix design and effective compaction. <i>Journal of Cleaner Production</i> , 2022, 355, 131683.	4.6	21
21	Investigation of ANN Model Containing One Hidden Layer for Predicting Compressive Strength of Concrete with Blast-Furnace Slag and Fly Ash. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-17.	1.0	18
22	Prediction of Later-Age Concrete Compressive Strength Using Feedforward Neural Network. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-8.	1.0	16
23	Investigation of ANN architecture for predicting shear strength of fiber reinforcement bars concrete beams. <i>PLoS ONE</i> , 2021, 16, e0247391.	1.1	15
24	Developing random forest hybridization models for estimating the axial bearing capacity of pile. <i>PLoS ONE</i> , 2022, 17, e0265747.	1.1	14
25	Compressive Strength Prediction of Stabilized Dredged Sediments Using Artificial Neural Network. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-8.	0.4	13
26	On the Training Algorithms for Artificial Neural Network in Predicting the Shear Strength of Deep Beams. <i>Complexity</i> , 2021, 2021, 1-18.	0.9	11
27	Investigation of ANN architecture for predicting the compressive strength of concrete containing GGBFS. <i>PLoS ONE</i> , 2021, 16, e0260847.	1.1	10
28	Effect of temperature on the chloride binding capacity of cementitious materials. <i>Magazine of Concrete Research</i> , 2021, 73, 771-784.	0.9	9
29	Investigation of ANN Architecture for Predicting Load-Carrying Capacity of Castellated Steel Beams. <i>Complexity</i> , 2021, 2021, 1-14.	0.9	9
30	Using machine learning technique for designing reinforced lightweight soil. <i>Journal of Intelligent and Fuzzy Systems</i> , 2022, 43, 1633-1650.	0.8	7
31	Investigation of ANN architecture for predicting residual strength of clay soil. <i>Neural Computing and Applications</i> , 2022, 34, 19253-19268.	3.2	7
32	Evolution of Deep Neural Network Architecture Using Particle Swarm Optimization to Improve the Performance in Determining the Friction Angle of Soil. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-17.	0.6	6
33	Using ANN to Estimate the Critical Buckling Load of Y Shaped Cross-Section Steel Columns. <i>Scientific Programming</i> , 2021, 2021, 1-8.	0.5	4
34	The advantages of using a geochemical transport model including thermodynamic equilibrium, kinetic control and surface complexation to simulate the durability of concretes exposed to chlorides and sulphates. <i>European Journal of Environmental and Civil Engineering</i> , 2019, 23, 552-563.	1.0	3
35	Using a geochemical model for predicting chloride ingress into saturated concrete. <i>Magazine of Concrete Research</i> , 0, , 1-12.	0.9	2
36	Using Random Forest for Predicting Compressive Strength of Self-compacting Concrete. <i>Lecture Notes in Civil Engineering</i> , 2022, , 1937-1944.	0.3	2

#	ARTICLE	IF	CITATIONS
37	Using Artificial Neural Network Containing Two Hidden Layers for Predicting Carbonation Depth of Concrete. Lecture Notes in Civil Engineering, 2022, , 1945-1952.	0.3	1
38	Using hybrid machine learning model including gradient boosting and Bayesian optimization for predicting compressive strength of concrete containing ground glass particles. Journal of Intelligent and Fuzzy Systems, 2022, , 1-15.	0.8	1
39	Nonlinear Analysis of Flat Steel Frame Structure With Semi-rigid Connection Under Static Load. International Journal of Engineering and Advanced Technology, 2019, 8, 1102-1106.	0.2	0
40	Investigation of Input Number Effect on Performance Prediction of Soil Friction Angle Using Random Forest. Lecture Notes in Civil Engineering, 2022, , 1859-1866.	0.3	0
41	Title is missing!. , 2020, 15, e0243030.		0
42	Title is missing!. , 2020, 15, e0243030.		0
43	Title is missing!. , 2020, 15, e0243030.		0
44	Title is missing!. , 2020, 15, e0243030.		0