Van-Quan Tran

List of Publications by Year in descending order

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44 papers	1,186 citations	394421 19 h-index	395702 33 g-index
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. Mathematical Problems in Engineering, 2021, 2021, 1-15.	1.1	189
2	Evaluating compressive strength of concrete made with recycled concrete aggregates using machine learning approach. Construction and Building Materials, 2022, 323, 126578.	7.2	92
3	Development of deep neural network model to predict the compressive strength of rubber concrete. Construction and Building Materials, 2021, 301, 124081.	7.2	80
4	Optimization of Artificial Intelligence System by Evolutionary Algorithm for Prediction of Axial Capacity of Rectangular Concrete Filled Steel Tubes under Compression. Materials, 2020, 13, 1205.	2.9	71
5	Development of an AI Model to Measure Traffic Air Pollution from Multisensor and Weather Data. Sensors, 2019, 19, 4941.	3.8	69
6	Prediction of Pile Axial Bearing Capacity Using Artificial Neural Network and Random Forest. Applied Sciences (Switzerland), 2020, 10, 1871.	2.5	53
7	Modelisation of chloride reactive transport in concrete including thermodynamic equilibrium, kinetic control and surface complexation. Cement and Concrete Research, 2018, 110, 70-85.	11.0	52
8	Computational Hybrid Machine Learning Based Prediction of Shear Capacity for Steel Fiber Reinforced Concrete Beams. Sustainability, 2020, 12, 2709.	3.2	52
9	Design deep neural network architecture using a genetic algorithm for estimation of pile bearing capacity. PLoS ONE, 2020, 15, e0243030.	2.5	47
10	Extreme Learning Machine Based Prediction of Soil Shear Strength: A Sensitivity Analysis Using Monte Carlo Simulations and Feature Backward Elimination. Sustainability, 2020, 12, 2339.	3.2	43
11	Development of Hybrid Machine Learning Models for Predicting the Critical Buckling Load of I-Shaped Cellular Beams. Applied Sciences (Switzerland), 2019, 9, 5458.	2.5	42
12	Prediction Compressive Strength of Concrete Containing GGBFS using Random Forest Model. Advances in Civil Engineering, 2021, 2021, 1-12.	0.7	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. Construction and Building Materials, 2018, 191, 608-618.	7.2	30
14	Machine learning approach for investigating chloride diffusion coefficient of concrete containing supplementary cementitious materials. Construction and Building Materials, 2022, 328, 127103.	7.2	29
15	External sulfate attack of cementitious materials: New insights gained through numerical modeling including dissolution/precipitation kinetics and surface complexation. Cement and Concrete Composites, 2017, 83, 263-272.	10.7	28
16	Using machine learning techniques for predicting autogenous shrinkage of concrete incorporating superabsorbent polymers and supplementary cementitious materials. Journal of Building Engineering, 2022, 49, 104086.	3.4	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. Molecules, 2020, 25, 3486.	3.8	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. Materials, 2020, 13, 2210.	2.9	26

#	ARTICLE	IF	CITATIONS
19	Requirements and possible simplifications for multi-ionic transport models â€“ Case of concrete subjected to wetting-drying cycles in marine environment. Construction and Building Materials, 2018, 164, 799-808.	7.2	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. Journal of Cleaner Production, 2022, 355, 131683.	9.3	21
21	Investigation of ANN Model Containing One Hidden Layer for Predicting Compressive Strength of Concrete with Blast-Furnace Slag and Fly Ash. Advances in Materials Science and Engineering, 2021, 2021, 1-17.	1.8	18
22	Prediction of Later-Age Concrete Compressive Strength Using Feedforward Neural Network. Advances in Materials Science and Engineering, 2020, 2020, 1-8.	1.8	16
23	Investigation of ANN architecture for predicting shear strength of fiber reinforcement bars concrete beams. PLoS ONE, 2021, 16, e0247391.	2.5	15
24	Developing random forest hybridization models for estimating the axial bearing capacity of pile. PLoS ONE, 2022, 17, e0265747.	2.5	14
25	Compressive Strength Prediction of Stabilized Dredged Sediments Using Artificial Neural Network. Advances in Civil Engineering, 2021, 2021, 1-8.	0.7	13
26	On the Training Algorithms for Artificial Neural Network in Predicting the Shear Strength of Deep Beams. Complexity, 2021, 2021, 1-18.	1.6	11
27	Investigation of ANN architecture for predicting the compressive strength of concrete containing GGBFS. PLoS ONE, 2021, 16, e0260847.	2.5	10
28	Effect of temperature on the chloride binding capacity of cementitious materials. Magazine of Concrete Research, 2021, 73, 771-784.	2.0	9
29	Investigation of ANN Architecture for Predicting Load-Carrying Capacity of Castellated Steel Beams. Complexity, 2021, 2021, 1-14.	1.6	9
30	Using machine learning technique for designing reinforced lightweight soil. Journal of Intelligent and Fuzzy Systems, 2022, 43, 1633-1650.	1.4	7
31	Investigation of ANN architecture for predicting residual strength of clay soil. Neural Computing and Applications, 2022, 34, 19253-19268.	5.6	7
32	Evolution of Deep Neural Network Architecture Using Particle Swarm Optimization to Improve the Performance in Determining the Friction Angle of Soil. Mathematical Problems in Engineering, 2021, 2021, 1-17.	1.1	6
33	Using ANN to Estimate the Critical Buckling Load of Y Shaped Cross-Section Steel Columns. Scientific Programming, 2021, 2021, 1-8.	0.7	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. European Journal of Environmental and Civil Engineering, 2019, 23, 552-563.	2.1	3
35	Using a geochemical model for predicting chloride ingress into saturated concrete. Magazine of Concrete Research, 0, , 1-12.	2.0	2
36	Using Random Forest for Predicting Compressive Strength of Self-compacting Concrete. Lecture Notes in Civil Engineering, 2022, , 1937-1944.	0.4	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.	0.4	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.	1.4	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.	0.3	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.	0.4	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