Tien-Thinh Le

List of Publications by Year in Descending Order

58 papers	1,483 citations	23 h-index	37 g-index
59 ext. papers	1,915 ext. citations	3.1 avg, IF	6.09 L-index

#	Paper	IF	Citations
58	Critical Buckling Load Evaluation of Functionally Graded Material Plate Using Gaussian Process Regression. *Lecture Notes in Networks and Systems*, **2022**, 286-292	0.5	1
57	Prediction Model for Tensile Modulus of Carbon Nanotube Polymer Composites. *Lecture Notes in Networks and Systems*, **2022**, 786-792	0.5	2
56	Developing Geometric Error Compensation Software for Five-Axis CNC Machine Tool on NC Program Based on Artificial Neural Network. *Mechanisms and Machine Science*, **2022**, 541-548	0.3	2
55	Development and Identification of Working Parameters for Threshing Unit of Peanut Tuber Picking Machine. *Mechanisms and Machine Science*, **2022**, 313-323	0.3	
54	Multiobjective Optimization of Surface Roughness and Tool Wear in High-Speed Milling of AA6061 by Machine Learning and NSGA-II. *Advances in Materials Science and Engineering*, **2022**, 2022, 1-21	1.5	1
53	Evaluation of the ultimate eccentric load of rectangular CFSTs using advanced neural network modeling. *Engineering Structures*, **2021**, 248, 113297	4.7	7
52	Development of user-friendly kernel-based Gaussian process regression model for prediction of load-bearing capacity of square concrete-filled steel tubular members. *Materials and Structures/Materiaux Et Constructions*, **2021**, 54, 1	3.4	11
51	Nanoscale Effect Investigation for Effective Bulk Modulus of Particulate Polymer Nanocomposites Using Micromechanical Framework. *Advances in Materials Science and Engineering*, **2021**, 2021, 1-13	1.5	4
50	Development of Deep Learning Model for the Recognition of Cracks on Concrete Surfaces. *Applied Computational Intelligence and Soft Computing*, **2021**, 2021, 1-10	2.7	10
49	Effects of variability in experimental database on machine-learning-based prediction of ultimate load of circular concrete-filled steel tubes. *Measurement: Journal of the International Measurement Confederation*, **2021**, 176, 109198	4.6	12
48	An empirical model for bending capacity of defected pipe combined with axial load. *International Journal of Pressure Vessels and Piping*, **2021**, 191, 104368	2.4	10
47	Applying Bayesian Optimization for Machine Learning Models in Predicting the Surface Roughness in Single-Point Diamond Turning Polycarbonate. *Mathematical Problems in Engineering*, **2021**, 2021, 1-16	1.1	11
46	Soft computing based closed form equations correlating L and N-type Schmidt hammer rebound numbers of rocks. *Transportation Geotechnics*, **2021**, 29, 100588	4	23
45	Characterization of soybeans and calibration of their DEM input parameters. *Particulate Science and Technology*, **2021**, 39, 530-548	2	7
44	Estimation of axial load-carrying capacity of concrete-filled steel tubes using surrogate models. *Neural Computing and Applications*, **2021**, 33, 3437-3458	4.8	33
43	Probabilistic modeling of surface effects in nano-reinforced materials. *Computational Materials Science*, **2021**, 186, 109987	3.2	15
42	Prediction of tensile strength of polymer carbon nanotube composites using practical machine learning method. *Journal of Composite Materials*, **2021**, 55, 787-811	2.7	23

41	Effect of temperature on the chloride binding capacity of cementitious materials. *Magazine of Concrete Research*, **2021**, 73, 771-784	2	9
40	Practical machine learning-based prediction model for axial capacity of square CFST columns. *Mechanics of Advanced Materials and Structures*, **2020**, 1-16	1.8	15
39	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,	3.5	15
38	Extreme Learning Machine Based Prediction of Soil Shear Strength: A Sensitivity Analysis Using Monte Carlo Simulations and Feature Backward Elimination. *Sustainability*, **2020**, 12, 2339	3.6	33
37	Optimization of Artificial Intelligence System by Evolutionary Algorithm for Prediction of Axial Capacity of Rectangular Concrete Filled Steel Tubes under Compression. *Materials*, **2020**, 13,	3.5	44
36	Investigation and Optimization of the C-ANN Structure in Predicting the Compressive Strength of Foamed Concrete. *Materials*, **2020**, 13,	3.5	44
35	A Sensitivity and Robustness Analysis of GPR and ANN for High-Performance Concrete Compressive Strength Prediction Using a Monte Carlo Simulation. *Sustainability*, **2020**, 12, 830	3.6	67
34	Computational Hybrid Machine Learning Based Prediction of Shear Capacity for Steel Fiber Reinforced Concrete Beams. *Sustainability*, **2020**, 12, 2709	3.6	31
33	Prediction of Ultimate Load of Rectangular CFST Columns Using Interpretable Machine Learning Method. *Advances in Civil Engineering*, **2020**, 2020, 1-16	1.3	8
32	Development of advanced artificial intelligence models for daily rainfall prediction. *Atmospheric Research*, **2020**, 237, 104845	5.4	63
31	A spatially explicit deep learning neural network model for the prediction of landslide susceptibility. *Catena*, **2020**, 188, 104451	5.8	115
30	Flocculation-dewatering prediction of fine mineral tailings using a hybrid machine learning approach. *Chemosphere*, **2020**, 244, 125450	8.4	39
29	Probabilistic investigation of the effect of stochastic imperfect interfaces in nanocomposites. *Mechanics of Materials*, **2020**, 151, 103608	3.3	12
28	Optimization design of rectangular concrete-filled steel tube short columns with Balancing Composite Motion Optimization and data-driven model. *Structures*, **2020**, 28, 757-765	3.4	19
27	Surrogate Neural Network Model for Prediction of Load-Bearing Capacity of CFSS Members Considering Loading Eccentricity. *Applied Sciences (Switzerland)*, **2020**, 10, 3452	2.6	17
26	Multiscale Analysis of Elastic Properties of Nano-Reinforced Materials Exhibiting Surface Effects. Application for Determination of Effective Shear Modulus. *Journal of Composites Science*, **2020**, 4, 172	3	7
25	Practical Hybrid Machine Learning Approach for Estimation of Ultimate Load of Elliptical Concrete-Filled Steel Tubular Columns under Axial Loading. *Advances in Civil Engineering*, **2020**, 2020, 1-19	1.3	13
24	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,	4.8	21

23	Soft-computing techniques for prediction of soils consolidation coefficient. *Catena*, **2020**, 195, 104802	5.8	20
22	Artificial Intelligence-Based Model for the Prediction of Dynamic Modulus of Stone Mastic Asphalt. *Applied Sciences (Switzerland)*, **2020**, 10, 5242	2.6	6
21	Cost-Effective Approaches Based on Machine Learning to Predict Dynamic Modulus of Warm Mix Asphalt with High Reclaimed Asphalt Pavement. *Materials*, **2020**, 13,	3.5	9
20	Development of Hybrid Artificial Intelligence Approaches and a Support Vector Machine Algorithm for Predicting the Marshall Parameters of Stone Matrix Asphalt. *Applied Sciences (Switzerland)*, **2019**, 9, 3172	2.6	33
19	Improvement of ANFIS Model for Prediction of Compressive Strength of Manufactured Sand Concrete. *Applied Sciences (Switzerland)*, **2019**, 9, 3841	2.6	51
18	Hybrid Artificial Intelligence Approaches for Predicting Buckling Damage of Steel Columns Under Axial Compression. *Materials*, **2019**, 12,	3.5	47
17	Hybrid Artificial Intelligence Approaches for Predicting Critical Buckling Load of Structural Members under Compression Considering the Influence of Initial Geometric Imperfections. *Applied Sciences (Switzerland)*, **2019**, 9, 2258	2.6	52
16	Quantification of Uncertainties on the Critical Buckling Load of Columns under Axial Compression with Uncertain Random Materials. *Materials*, **2019**, 12,	3.5	31
15	Development of artificial intelligence models for the prediction of Compression Coefficient of soil: An application of Monte Carlo sensitivity analysis. *Science of the Total Environment*, **2019**, 679, 172-184	10.2	90
14	Prediction and Sensitivity Analysis of Bubble Dissolution Time in 3D Selective Laser Sintering Using Ensemble Decision Trees. *Materials*, **2019**, 12,	3.5	47
13	Artificial Intelligence Approaches for Prediction of Compressive Strength of Geopolymer Concrete. *Materials*, **2019**, 12,	3.5	112
12	Development of Hybrid Machine Learning Models for Predicting the Critical Buckling Load of I-Shaped Cellular Beams. *Applied Sciences (Switzerland)*, **2019**, 9, 5458	2.6	33
11	Development and Identification of Working Parameters for a Lychee Peeling Machine Combining Rollers and a Pressing Belt. *AgriEngineering*, **2019**, 1, 550-566	2.2	4
10	Development of an AI Model to Measure Traffic Air Pollution from Multisensor and Weather Data. *Sensors*, **2019**, 19,	3.8	44
9	Adaptive Network Based Fuzzy Inference System with Meta-Heuristic Optimizations for International Roughness Index Prediction. *Applied Sciences (Switzerland)*, **2019**, 9, 4715	2.6	40
8	Morphology characterization of irregular particles using image analysis. Application to solid inorganic fertilizers. *Computers and Electronics in Agriculture*, **2018**, 147, 146-157	6.5	5
7	Stochastic continuum modeling of random interphases from atomistic simulations. Application to a polymer nanocomposite. *Computer Methods in Applied Mechanics and Engineering*, **2016**, 303, 430-449	5.7	50
6	STOCHASTIC REPRESENTATIONS AND STATISTICAL INVERSE IDENTIFICATION FOR UNCERTAINTY QUANTIFICATION IN COMPUTATIONAL MECHANICS **2015**,		7

5	Stochastic framework for modeling the linear apparent behavior of complex materials: Application to random porous materials with interphases. *Acta Mechanica Sinica/Lixue Xuebao*, **2013**, 29, 773-782	2	32
4	Numerical investigation of force transmission in granular media using discrete element method. *Vietnam Journal of Mechanics*,	1.8	2
3	Investigation of force transmission, critical breakage force and relationship between micro-macroscopic behaviors of agricultural granular material in a uniaxial compaction test using discrete element method. *Particulate Science and Technology*,1-18	2	2
2	Prediction of axial load capacity of rectangular concrete-filled steel tube columns using machine learning techniques. *Engineering With Computers*,1	4.5	16
1	Development of artificial intelligence based model for the prediction of Young modulus of polymer/carbon-nanotubes composites. *Mechanics of Advanced Materials and Structures*,1-14	1.8	6