Hoang Nguyen

List of Publications by Citations

123 papers	3,348 citations	35 h-index	52 g-index
133 ext. papers	4,756 ext. citations	4.3 avg, IF	6.8 L-index

#	Paper	IF	Citations
123	A Comparative Study of PSO-ANN, GA-ANN, ICA-ANN, and ABC-ANN in Estimating the Heating Load of Buildings Energy Efficiency for Smart City Planning. *Applied Sciences (Switzerland)*, **2019**, 9, 2630	2.6	119
122	Prediction of Blast-Induced Ground Vibration in an Open-Pit Mine by a Novel Hybrid Model Based on Clustering and Artificial Neural Network. *Natural Resources Research*, **2020**, 29, 691-709	4.9	110
121	Predicting Blast-Induced Air Overpressure: A Robust Artificial Intelligence System Based on Artificial Neural Networks and Random Forest. *Natural Resources Research*, **2019**, 28, 893-907	4.9	109
120	Flood Detection and Susceptibility Mapping Using Sentinel-1 Remote Sensing Data and a Machine Learning Approach: Hybrid Intelligence of Bagging Ensemble Based on K-Nearest Neighbor Classifier. *Remote Sensing*, **2020**, 12, 266	5	96
119	Optimization of support vector machine through the use of metaheuristic algorithms in forecasting TBM advance rate. *Engineering Applications of Artificial Intelligence*, **2021**, 97, 104015	7.2	96
118	Application of a Hybrid Artificial Neural Network-Particle Swarm Optimization (ANN-PSO) Model in Behavior Prediction of Channel Shear Connectors Embedded in Normal and High-Strength Concrete. *Applied Sciences (Switzerland)*, **2019**, 9, 5534	2.6	91
117	A new soft computing model for estimating and controlling blast-produced ground vibration based on Hierarchical K-means clustering and Cubist algorithms. *Applied Soft Computing Journal*, **2019**, 77, 376-386	7.5	82
116	A comparative study of artificial neural networks in predicting blast-induced air-blast overpressure at Deo Nai open-pit coal mine, Vietnam. *Neural Computing and Applications*, **2020**, 32, 3939-3955	4.8	80
115	A Novel Swarm Intelligence-Harris Hawks Optimization for Spatial Assessment of Landslide Susceptibility. *Sensors*, **2019**, 19,	3.8	76
114	Prediction of Blast-induced Air Over-pressure in Open-Pit Mine: Assessment of Different Artificial Intelligence Techniques. *Natural Resources Research*, **2020**, 29, 571-591	4.9	76
113	Different sampling strategies for predicting landslide susceptibilities are deemed less consequential with deep learning. *Science of the Total Environment*, **2020**, 720, 137320	10.2	75
112	Novel Soft Computing Model for Predicting Blast-Induced Ground Vibration in Open-Pit Mines Based on Particle Swarm Optimization and XGBoost. *Natural Resources Research*, **2020**, 29, 711-721	4.9	74
111	Applications of rice husk ash as green and sustainable biomass. *Journal of Cleaner Production*, **2019**, 237, 117851	10.3	70
110	Developing an XGBoost model to predict blast-induced peak particle velocity in an open-pit mine: a case study. *Acta Geophysica*, **2019**, 67, 477-490	2.2	69
109	Improving prediction of water quality indices using novel hybrid machine-learning algorithms. *Science of the Total Environment*, **2020**, 721, 137612	10.2	69
108	Optimizing ANN models with PSO for predicting short building seismic response. *Engineering With Computers*, **2020**, 36, 823-837	4.5	63
107	A Novel Artificial Intelligence Approach to Predict Blast-Induced Ground Vibration in Open-Pit Mines Based on the Firefly Algorithm and Artificial Neural Network. *Natural Resources Research*, **2020**, 29, 723-737	4.9	62

106	A novel artificial intelligence technique to predict compressive strength of recycled aggregate concrete using ICA-XGBoost model. *Engineering With Computers*, **2020**, 37, 3329	4.5	61
105	Potential of hybrid evolutionary approaches for assessment of geo-hazard landslide susceptibility mapping. *Geomatics, Natural Hazards and Risk*, **2019**, 10, 1667-1693	3.6	59
104	A novel Harris hawks optimization and k-fold cross-validation predicting slope stability. *Engineering With Computers*, **2021**, 37, 369-379	4.5	56
103	Novel hybrids of adaptive neuro-fuzzy inference system (ANFIS) with several metaheuristic algorithms for spatial susceptibility assessment of seismic-induced landslide. *Geomatics, Natural Hazards and Risk*, **2019**, 10, 1879-1911	3.6	50
102	Estimating the Heating Load of Buildings for Smart City Planning Using a Novel Artificial Intelligence Technique PSO-XGBoost. *Applied Sciences (Switzerland)*, **2019**, 9, 2714	2.6	49
101	A particle-based optimization of artificial neural network for earthquake-induced landslide assessment in Ludian county, China. *Geomatics, Natural Hazards and Risk*, **2019**, 10, 1750-1771	3.6	48
100	Prediction of slope failure in open-pit mines using a novel hybrid artificial intelligence model based on decision tree and evolution algorithm. *Scientific Reports*, **2020**, 10, 9939	4.9	47
99	Evaluating and predicting blast-induced ground vibration in open-cast mine using ANN: a case study in Vietnam. *SN Applied Sciences*, **2019**, 1, 1	1.8	47
98	Landslide Susceptibility Mapping Using Machine Learning Algorithms and Remote Sensing Data in a Tropical Environment. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	46
97	Prediction of ultimate bearing capacity through various novel evolutionary and neural network models. *Engineering With Computers*, **2020**, 36, 671-687	4.5	42
96	Comprehensive preference learning and feature validity for designing energy-efficient residential buildings using machine learning paradigms. *Applied Soft Computing Journal*, **2019**, 84, 105748	7.5	40
95	Adaptive Network Based Fuzzy Inference System with Meta-Heuristic Optimizations for International Roughness Index Prediction. *Applied Sciences (Switzerland)*, **2019**, 9, 4715	2.6	40
94	Computational Intelligence Model for Estimating Intensity of Blast-Induced Ground Vibration in a Mine Based on Imperialist Competitive and Extreme Gradient Boosting Algorithms. *Natural Resources Research*, **2020**, 29, 751-769	4.9	38
93	A new technique to predict fly-rock in bench blasting based on an ensemble of support vector regression and GLMNET. *Engineering With Computers*, **2021**, 37, 421-435	4.5	38
92	A comparison of advanced computational models and experimental techniques in predicting blast-induced ground vibration in open-pit coal mine. *Acta Geophysica*, **2019**, 67, 1025-1037	2.2	37
91	A Novel Combination of Whale Optimization Algorithm and Support Vector Machine with Different Kernel Functions for Prediction of Blasting-Induced Fly-Rock in Quarry Mines. *Natural Resources Research*, **2021**, 30, 191-207	4.9	36
90	Support vector regression approach with different kernel functions for predicting blast-induced ground vibration: a case study in an open-pit coal mine of Vietnam. *SN Applied Sciences*, **2019**, 1, 1	1.8	35
89	Predicting Blast-Induced Ground Vibration in Open-Pit Mines Using Vibration Sensors and Support Vector Regression-Based Optimization Algorithms. *Sensors*, **2019**, 20,	3.8	35

88	Optimizing an ANN model with genetic algorithm (GA) predicting load-settlement behaviours of eco-friendly raft-pile foundation (ERP) system. *Engineering With Computers*, **2020**, 36, 421-433	4.5	35
87	Enhancing nitrate and strontium concentration prediction in groundwater by using new data mining algorithm. *Science of the Total Environment*, **2020**, 715, 136836	10.2	34
86	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
85	Developing a novel artificial intelligence model to estimate the capital cost of mining projects using deep neural network-based ant colony optimization algorithm. *Resources Policy*, **2020**, 66, 101604	7.2	33
84	Nonlinear evolutionary swarm intelligence of grasshopper optimization algorithm and gray wolf optimization for weight adjustment of neural network. *Engineering With Computers*, **2021**, 37, 1265-1275	4.5	32
83	Neuro-genetic, neuro-imperialism and genetic programing models in predicting ultimate bearing capacity of pile. *Engineering With Computers*, **2020**, 36, 1101-1115	4.5	31
82	Comparison of dragonfly algorithm and Harris hawks optimization evolutionary data mining techniques for the assessment of bearing capacity of footings over two-layer foundation soils. *Engineering With Computers*, **2021**, 37, 437-447	4.5	31
81	Agricultural wastes preparation, management, and applications in civil engineering: a review. *Journal of Material Cycles and Waste Management*, **2019**, 21, 1039-1051	3.4	30
80	Mapping of Groundwater Spring Potential in Karst Aquifer System Using Novel Ensemble Bivariate and Multivariate Models. *Water (Switzerland)*, **2020**, 12, 985	3	30
79	Landslide Detection and Susceptibility Modeling on Cameron Highlands (Malaysia): A Comparison between Random Forest, Logistic Regression and Logistic Model Tree Algorithms. *Forests*, **2020**, 11, 830	2.8	29
78	Prediction of Blast-Induced Ground Vibration in Open-Pit Mines Using a New Technique Based on Imperialist Competitive Algorithm and M5Rules. *Natural Resources Research*, **2020**, 29, 791-806	4.9	28
77	Application of remote sensing and machine learning algorithms for forest fire mapping in a Mediterranean area. *Ecological Indicators*, **2021**, 129, 107869	5.8	28
76	A Novel Hybrid Model for Predicting Blast-Induced Ground Vibration Based on k-Nearest Neighbors and Particle Swarm Optimization. *Scientific Reports*, **2019**, 9, 13971	4.9	27
75	Estimating PM10 Concentration from Drilling Operations in Open-Pit Mines Using an Assembly of SVR and PSO. *Applied Sciences (Switzerland)*, **2019**, 9, 2806	2.6	27
74	Evaluating and Predicting the Stability of Roadways in Tunnelling and Underground Space Using Artificial Neural Network-Based Particle Swarm Optimization. *Tunnelling and Underground Space Technology*, **2020**, 103, 103517	5.7	27
73	Predicting blast-induced peak particle velocity using BGAMs, ANN and SVM: a case study at the Nui Beo open-pit coal mine in Vietnam. *Environmental Earth Sciences*, **2019**, 78, 1	2.9	26
72	Comparison of Support Vector Machine, Bayesian Logistic Regression, and Alternating Decision Tree Algorithms for Shallow Landslide Susceptibility Mapping along a Mountainous Road in the West of Iran. *Applied Sciences (Switzerland)*, **2020**, 10, 5047	2.6	25
71	Proposing a novel predictive technique using M5Rules-PSO model estimating cooling load in energy-efficient building system. *Engineering With Computers*, **2020**, 36, 857-866	4.5	25

70	Feasibility of a novel predictive technique based on artificial neural network optimized with particle swarm optimization estimating pullout bearing capacity of helical piles. *Engineering With Computers* , **2020**, 36, 1315-1324	4.5	24
69	Optimizing LevenbergMarquardt backpropagation technique in predicting factor of safety of slopes after two-dimensional OptumG2 analysis. *Engineering With Computers*, **2020**, 36, 941-952	4.5	24
68	Forecasting mining capital cost for open-pit mining projects based on artificial neural network approach. *Resources Policy*, **2019**, 74, 101474	7.2	23
67	Soft computing models for predicting blast-induced air over-pressure: A novel artificial intelligence approach. *Applied Soft Computing Journal*, **2020**, 92, 106292	7.5	22
66	Fine-tuning of neural computing using whale optimization algorithm for predicting compressive strength of concrete. *Engineering With Computers*, **2021**, 37, 701-712	4.5	20
65	A novel artificial intelligence technique for analyzing slope stability using PSO-CA model. *Engineering With Computers*, **2021**, 37, 533-544	4.5	20
64	Prediction of Blast-Induced Ground Vibration Intensity in Open-Pit Mines Using Unmanned Aerial Vehicle and a Novel Intelligence System. *Natural Resources Research*, **2020**, 29, 771-790	4.9	18
63	Monitoring and Assessment of Water Level Fluctuations of the Lake Urmia and Its Environmental Consequences Using Multitemporal Landsat 7 ETM Images. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	17
62	Predicting rock size distribution in mine blasting using various novel soft computing models based on meta-heuristics and machine learning algorithms. *Geoscience Frontiers*, **2021**, 12, 101108	6	17
61	Toward a State-of-the-Art of Fly-Rock Prediction Technology in Open-Pit Mines Using EANNs Model. *Applied Sciences (Switzerland)*, **2019**, 9, 4554	2.6	17
60	A comparative study of empirical and ensemble machine learning algorithms in predicting air over-pressure in open-pit coal mine. *Acta Geophysica*, **2020**, 68, 325-336	2.2	16
59	Prediction of Rock Size Distribution in Mine Bench Blasting Using a Novel Ant Colony Optimization-Based Boosted Regression Tree Technique. *Natural Resources Research*, **2020**, 29, 867-886	4.9	16
58	A Novel Hunger Games Search Optimization-Based Artificial Neural Network for Predicting Ground Vibration Intensity Induced by Mine Blasting. *Natural Resources Research*, **2021**, 30, 3865-3880	4.9	15
57	A Novel Artificial Intelligence Technique to Estimate the Gross Calorific Value of Coal Based on Meta-Heuristic and Support Vector Regression Algorithms. *Applied Sciences (Switzerland)*, **2019**, 9, 4868	2.6	15
56	Modeling of rock fragmentation by firefly optimization algorithm and boosted generalized additive model. *Neural Computing and Applications*, **2021**, 33, 3503-3519	4.8	15
55	A generalized artificial intelligence model for estimating the friction angle of clays in evaluating slope stability using a deep neural network and Harris Hawks optimization algorithm. *Engineering With Computers*,1	4.5	15
54	Composition and Morphology Characteristics of Magnetic Fractions of Coal Fly Ash Wastes Processed in High-Temperature Exposure in Thermal Power Plants. *Applied Sciences (Switzerland)*, **2019**, 9, 1964	2.6	13
53	Predicting the sorption efficiency of heavy metal based on the biochar characteristics, metal sources, and environmental conditions using various novel hybrid machine learning models. *Chemosphere*, **2021**, 276, 130204	8.4	13

52	Estimation of Blast-Induced Air Overpressure in Quarry Mines Using Cubist-Based Genetic Algorithm. *Natural Resources Research*, **2020**, 29, 593-607	4.9	12
51	Predicting roof displacement of roadways in underground coal mines using adaptive neuro-fuzzy inference system optimized by various physics-based optimization algorithms. *Journal of Rock Mechanics and Geotechnical Engineering*, **2021**,	5.3	12
50	Improved LevenbergMarquardt backpropagation neural network by particle swarm and whale optimization algorithms to predict the deflection of RC beams. *Engineering With Computers*,1	4.5	12
49	Prediction of Pullout Behavior of Belled Piles through Various Machine Learning Modelling Techniques. *Sensors*, **2019**, 19,	3.8	11
48	Two novel neural-evolutionary predictive techniques of dragonfly algorithm (DA) and biogeography-based optimization (BBO) for landslide susceptibility analysis. *Geomatics, Natural Hazards and Risk*, **2019**, 10, 2429-2453	3.6	11
47	Rapid Determination of Gross Calorific Value of Coal Using Artificial Neural Network and Particle Swarm Optimization. *Natural Resources Research*, **2021**, 30, 621-638	4.9	11
46	Proposing two new metaheuristic algorithms of ALO-MLP and SHO-MLP in predicting bearing capacity of circular footing located on horizontal multilayer soil. *Engineering With Computers*, **2021**, 37, 1537-1547	4.5	11
45	Predicting Ground Vibrations Due to Mine Blasting Using a Novel Artificial Neural Network-Based Cuckoo Search Optimization. *Natural Resources Research*, **2021**, 30, 2663-2685	4.9	11
44	Prediction of the sorption efficiency of heavy metal onto biochar using a robust combination of fuzzy C-means clustering and back-propagation neural network. *Journal of Environmental Management*, **2021**, 293, 112808	7.9	11
43	A Comparative Study of Different Machine Learning Algorithms in Predicting the Content of Ilmenite in Titanium Placer. *Applied Sciences (Switzerland)*, **2020**, 10, 635	2.6	10
42	Daily Water Level Prediction of Zrebar Lake (Iran): A Comparison between M5P, Random Forest, Random Tree and Reduced Error Pruning Trees Algorithms. *ISPRS International Journal of Geo-Information*, **2020**, 9, 479	2.9	10
41	Soft computing-based models for the prediction of masonry compressive strength. *Engineering Structures*, **2021**, 248, 113276	4.7	9
40	A refreshing view of soft computing models for predicting the deflection of reinforced concrete beams. *Applied Soft Computing Journal*, **2020**, 97, 106831	7.5	9
39	Proposing two novel hybrid intelligence models for forecasting copper price based on extreme learning machine and meta-heuristic algorithms. *Resources Policy*, **2021**, 73, 102195	7.2	9
38	A novel approach in adsorption of heavy metal ions from aqueous solution using synthesized MCM-41 from coal bottom ash. *International Journal of Environmental Analytical Chemistry*, **2020**, 100, 1226-1244	1.8	8
37	Novel metaheuristic classification approach in developing mathematical model-based solutions predicting failure in shallow footing. *Engineering With Computers*, **2021**, 37, 223-230	4.5	8
36	Performance evaluation of nanotubular halloysites from weathered pegmatites in removing heavy metals from water through novel artificial intelligence-based models and human-based optimization algorithm. *Chemosphere*, **2021**, 282, 131012	8.4	8
35	Prediction of gas yield generated by energy recovery from municipal solid waste using deep neural network and moth-flame optimization algorithm. *Journal of Cleaner Production*, **2021**, 311, 127672	10.3	7

34	Forecasting monthly copper price: A comparative study of various machine learning-based methods. *Resources Policy*, **2021**, 73, 102189	7.2	7
33	Application of the k - nearest neighbors algorithm for predicting blast - induced ground vibration in open - pit coal mines: a case study. *Journal of Mining and Earth Sciences*, **2020**, 61, 22-29	2.4	6
32	A novel soft computing model for predicting blast - induced ground vibration in open - pit mines using gene expression programming. *Journal of Mining and Earth Sciences*, **2020**, 61, 107-116	2.4	6
31	A novel artificial intelligent model for predicting water treatment efficiency of various biochar systems based on artificial neural network and queuing search algorithm. *Chemosphere*, **2022**, 287, 132251	8.4	6
30	Optimized functional linked neural network for predicting diaphragm wall deflection induced by braced excavations in clays. *Geoscience Frontiers*, **2021**, 101313	6	5
29	Diagnosis of Problems in Truck Ore Transport Operations in Underground Mines Using Various Machine Learning Models and Data Collected by Internet of Things Systems. *Minerals (Basel, Switzerland)*, **2021**, 11, 1128	2.4	5
28	Estimation of Ground Vibration Intensity Induced by Mine Blasting using a State-of-the-Art Hybrid Autoencoder Neural Network and Support Vector Regression Model. *Natural Resources Research*, **2021**, 30, 3853-3864	4.9	5
27	Flash-flood potential index estimation using fuzzy logic combined with deep learning neural network, naïve Bayes, XGBoost and classification and regression tree. *Geocarto International*,1-28	2.7	5
26	Determination of Young Elasticity Modulus in Bored Piles Through the Global Strain Extensometer Sensors and Real-Time Monitoring Data. *Applied Sciences (Switzerland)*, **2019**, 9, 3060	2.6	4
25	Flash-flood propagation susceptibility estimation using weights of evidence and their novel ensembles with multicriteria decision making and machine learning. *Geocarto International*,1-32	2.7	4
24	Estimating Air Over-pressure Resulting from Blasting in Quarries Based on a Novel Ensemble Model (GLMNETsMLPNN). *Natural Resources Research*, **2021**, 30, 2629-2646	4.9	4
23	Detection of areas prone to flood-induced landslides risk using certainty factor and its hybridization with FAHP, XGBoost and deep learning neural network. *Geocarto International*,1-36	2.7	4
22	Conductivity of composites with multiple polygonal aggregates, theoretical estimates and numerical solutions from polarization series. *International Journal of Engineering Science*, **2018**, 123, 109-116	5.7	3
21	Predicting rock displacement in underground mines using improved machine learning-based models. *Measurement: Journal of the International Measurement Confederation*, **2022**, 188, 110552	4.6	3
20	Novel Extreme Learning Machine-Multi-Verse Optimization Model for Predicting Peak Particle Velocity Induced by Mine Blasting. *Natural Resources Research*, **2021**, 30, 4735	4.9	3
19	Predicting Blast-induced Ground Vibration in Quarries Using Adaptive Fuzzy Inference Neural Network and MothFlame Optimization. *Natural Resources Research*, **2021**, 30, 4719	4.9	3
18	Estimating heavy metals absorption efficiency in an aqueous solution using nanotube-type halloysite from weathered pegmatites and a novel Harris hawks optimization-based multiple layers perceptron neural network. *Engineering With Computers*,1	4.5	3
17	Estimating Ore Production in Open-pit Mines Using Various Machine Learning Algorithms Based on a Truck-Haulage System and Support of Internet of Things. *Natural Resources Research*, **2021**, 30, 1141-1173	4.9	3

16	Soft computing method for predicting pressure drop reduction in crude oil pipelines based on machine learning methods. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2020**, 42, 1	2	2
15	Predicting Blast-Induced Ground Vibration in Open-Pit Mines Using Different Nature-Inspired Optimization Algorithms and Deep Neural Network. *Natural Resources Research*,1	4.9	2
14	Exploring the relation between production factors, ore grades, and life of mine for forecasting mining capital cost through a novel cascade forward neural network-based salp swarm optimization model. *Resources Policy*, **2021**, 74, 102300	7.2	2
13	Analysis and prediction of diaphragm wall deflection induced by deep braced excavations using finite element method and artificial neural network optimized by metaheuristic algorithms. *Reliability Engineering and System Safety*, **2022**, 221, 108335	6.3	1
12	A Review of Artificial Intelligence Applications in Mining and Geological Engineering. *Lecture Notes in Civil Engineering*, **2021**, 109-142	0.3	1
11	Optimization of haulage-truck system performance for ore production in open-pit mines using big data and machine learning-based methods. *Resources Policy*, **2022**, 75, 102522	7.2	1
10	Prediction of ground vibration intensity in mine blasting using the novel hybrid MARSPSOMLP model. *Engineering With Computers*,1	4.5	1
9	Novel integrated approaches for predicting the compressibility of clay using cascade forward neural networks optimized by swarm- and evolution-based algorithms. *Acta Geotechnica*,1	4.9	1
8	Flood Susceptibility Modeling in a Subtropical Humid Low-Relief Alluvial Plain Environment: Application of Novel Ensemble Machine Learning Approach. *Frontiers in Earth Science*, **2021**, 9,	3.5	1
7	Extra Trees Ensemble: A Machine Learning Model for Predicting Blast-Induced Ground Vibration Based on the Bagging and Sibling of Random Forest Algorithm. *Lecture Notes in Civil Engineering*, **2022**, 643-652	0.3	1
6	Toward state-of-the-art techniques in predicting and controlling slope stability in open-pit mines based on limit equilibrium analysis, radial basis function neural network, and brainstorm optimization. *Acta Geotechnica*,1	4.9	0
5	Utilizing a Novel Artificial Neural Network-Based Meta-heuristic Algorithm to Predict the Dust Concentration in Deo Nai Open-Pit Coal Mine (Vietnam). *Lecture Notes in Civil Engineering*, **2021**, 203-223	0.3	
4	Evaluating the Air Flow and Gas Dispersion Behavior in a Deep Open-Pit Mine Based on Monitoring and CFD Analysis: A Case Study at the Coc Sau Open-Pit Coal Mine (Vietnam). *Lecture Notes in Civil Engineering*, **2021**, 224-244	0.3	
3	Evaluating the Effect of Meteorological Conditions on Blast-Induced Air Over-Pressure in Open Pit Coal Mines. *Lecture Notes in Civil Engineering*, **2021**, 170-186	0.3	
2	Development of a Blasting Vibration Monitoring System Based on Tri-axial Acceleration Sensor for Wireless Mesh Network Monitoring. *Lecture Notes in Civil Engineering*, **2021**, 187-202	0.3	
1	Utilizing a Bagging Model Based on Decision Trees and k-nearest Neighbors for Predicting Slope Stability in Open Pit Mines. *Lecture Notes in Civil Engineering*, **2022**, 633-642	0.3	