# Edy Tonnizam Mohamad

List of Publications by Year
in descending order



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|---|---|---|---|
| 55 papers | 3,845 citations | 117625 34 h-index | 175258 52 g-index |
| 57 all docs | 57 docs citations | 57 times ranked | 1763 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Development of hybrid intelligent models for predicting TBM penetration rate in hard rock condition. Tunnelling and Underground Space Technology, 2017, 63, 29-43. | 6.2 | 307 |
| 2 | Ground vibration prediction in quarry blasting through an artificial neural network optimized by imperialist competitive algorithm. Bulletin of Engineering Geology and the Environment, 2015, 74, 873-886. | 3.5 | 209 |
| 3 | Improvement of Problematic Soils with Biopolymerâ€"An Environmentally Friendly Soil Stabilizer. Journal of Materials in Civil Engineering, 2017, 29, . | 2.9 | 207 |
| 4 | Blast-induced air and ground vibration prediction: a particle swarm optimization-based artificial neural network approach. Environmental Earth Sciences, 2015, 74, 2799-2817. | 2.7 | 162 |
| 5 | Prediction of the unconfined compressive strength of soft rocks: a PSO-based ANN approach. Bulletin of Engineering Geology and the Environment, 2015, 74, 745-757. | 3.5 | 162 |
| 6 | An adaptive neuro-fuzzy inference system for predicting unconfined compressive strength and Youngâ€™s modulus: a study on Main Range granite. Bulletin of Engineering Geology and the Environment, 2015, 74, 1301-1319. | 3.5 | 154 |
| 7 | Three hybrid intelligent models in estimating flyrock distance resulting from blasting. Engineering With Computers, 2019, 35, 243-256. | 6.1 | 145 |
| 8 | Prediction of the strength and elasticity modulus of granite through an expert artificial neural network. Arabian Journal of Geosciences, 2016, 9, 1. | 1.3 | 136 |
| 9 | Estimation of the TBM advance rate under hard rock conditions using XGBoost and Bayesian optimization. Underground Space (China), 2021, 6, 506-515. | 7.5 | 129 |
| 10 | A combination of the ICA-ANN model to predict air-overpressure resulting from blasting. Engineering With Computers, 2016, 32, 155-171. | 6.1 | 123 |
| 11 | Indirect measure of shale shear strength parameters by means of rock index tests through an optimized artificial neural network. Measurement: Journal of the International Measurement Confederation, 2014, 55, 487-498. | 5.0 | 115 |
| 12 | Predicting tunnel boring machine performance through a new model based on the group method of data handling. Bulletin of Engineering Geology and the Environment, 2019, 78, 3799-3813. | 3.5 | 114 |
| 13 | Application of deep neural networks in predicting the penetration rate of tunnel boring machines. Bulletin of Engineering Geology and the Environment, 2019, 78, 6347-6360. | 3.5 | 108 |
| 14 | A Novel Approach for Blast-Induced Flyrock Prediction Based on Imperialist Competitive Algorithm and Artificial Neural Network. Scientific World Journal, The, 2014, 2014, 1-11. | 2.1 | 106 |
| 15 | Feasibility of ICA in approximating ground vibration resulting from mine blasting. Neural Computing and Applications, 2018, 29, 457-465. | 5.6 | 105 |
| 16 | Application of several non-linear prediction tools for estimating uniaxial compressive strength of granitic rocks and comparison of their performances. Engineering With Computers, 2016, 32, 189-206. | 6.1 | 104 |
| 17 | Application of two intelligent systems in predicting environmental impacts of quarry blasting. Arabian Journal of Geosciences, 2015, 8, 9647-9665. | 1.3 | 103 |
| 18 | Neuro-fuzzy technique to predict air-overpressure induced by blasting. Arabian Journal of Geosciences, 2015, 8, 10937-10950. | 1.3 | 102 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Genetic programming and gene expression programming for flyrock assessment due to mine blasting. International Journal of Rock Mechanics and Minings Sciences, 2016, 88, 254-264. | 5.8 | 92 |
| 20 | An optimized ANN model based on genetic algorithm for predicting ripping production. Neural Computing and Applications, 2017, 28, 393-406. | 5.6 | 85 |
| 21 | A combination of artificial bee colony and neural network for approximating the safety factor of retaining walls. Engineering With Computers, 2019, 35, 647-658. | 6.1 | 78 |
| 22 | Estimation of air-overpressure produced by blasting operation through a neuro-genetic technique. Environmental Earth Sciences, 2016, 75, 1. | 2.7 | 64 |
| 23 | Rock strength assessment based on regression tree technique. Engineering With Computers, 2016, 32, 343-354. | 6.1 | 62 |
| 24 | Estimating and optimizing safety factors of retaining wall through neural network and bee colony techniques. Engineering With Computers, 2019, 35, 945-954. | 6.1 | 62 |
| 25 | Overbreak prediction and optimization in tunnel using neural network and bee colony techniques. Engineering With Computers, 2019, 35, 1191-1202. | 6.1 | 61 |
| 26 | The use of new intelligent techniques in designing retaining walls. Engineering With Computers, 2020, 36, 283-294. | 6.1 | 61 |
| 27 | A Novel Intelligent ELM-BBO Technique for Predicting Distance of Mine Blasting-Induced Flyrock. Natural Resources Research, 2020, 29, 4103-4120. | 4.7 | 56 |
| 28 | Prediction and minimization of blast-induced flyrock using gene expression programming and firefly algorithm. Neural Computing and Applications, 2018, 29, 269-281. | 5.6 | 54 |
| 29 | Prediction of blast-induced air overpressure: a hybrid AI-based predictive model. Environmental Monitoring and Assessment, 2015, 187, 666. | 2.7 | 48 |
| 30 | The effects of particle swarm optimisation and genetic algorithm on ANN results in predicting pile bearing capacity. International Journal of Hydromechatronics, 2020, 3, 69. | 2.3 | 43 |
| 31 | A new hybrid method for predicting ripping production in different weathering zones through in situ tests. Measurement: Journal of the International Measurement Confederation, 2019, 147, 106826. | 5.0 | 42 |
| 32 | Estimating the friction angle of black shale core specimens with hybrid-ANN approaches. Measurement: Journal of the International Measurement Confederation, 2019, 145, 744-755. | 5.0 | 40 |
| 33 | Prediction of TBM performance in fresh through weathered granite using empirical and statistical approaches. Tunnelling and Underground Space Technology, 2021, 118, 104183. | 6.2 | 39 |
| 34 | Prediction of flyrock distance induced by mine blasting using a novel Harris Hawks optimization-based multi-layer perceptron neural network. Journal of Rock Mechanics and Geotechnical Engineering, 2021, 13, 1413-1427. | 8.1 | 39 |
| 35 | Optimal ELMâ€“Harris Hawks Optimization and ELMâ€“Grasshopper Optimization Models to Forecast Peak Particle Velocity Resulting from Mine Blasting. Natural Resources Research, 2021, 30, 2647-2662. | 4.7 | 38 |
| 36 | Proposing several hybrid PSO-extreme learning machine techniques to predict TBM performance. Engineering With Computers, 2022, 38, 3811-3827. | 6.1 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Application of Tree-Based Predictive Models to Forecast Air Overpressure Induced by Mine Blasting. Natural Resources Research, 2021, 30, 1865-1887. | 4.7 | 32 |
| 38 | Development of fuzzy-GMDH model optimized by GSA to predict rock tensile strength based on experimental datasets. Neural Computing and Applications, 2020, 32, 14047-14067. | 5.6 | 31 |
| 39 | Intelligence Prediction of Some Selected Environmental Issues of Blasting: A Review. Open Construction and Building Technology Journal, 2020, 14, 298-308. | 0.7 | 27 |
| 40 | The effects of ABC, ICA, and PSO optimization techniques on prediction of ripping production. Engineering With Computers, 2020, 36, 1355-1370. | 6.1 | 24 |
| 41 | Effect of Geological Structure on Flyrock Prediction in Construction Blasting. Geotechnical and Geological Engineering, 2018, 36, 2217-2235. | 1.7 | 21 |
| 42 | Strength evaluation of granite block samples with different predictive models. Engineering With Computers, 2021, 37, 891-908. | 6.1 | 18 |
| 43 | Effects of moisture content on the strength of tropically weathered granite from Malaysia. Bulletin of Engineering Geology and the Environment, 2016, 75, 369-390. | 3.5 | 16 |
| 44 | Ripping Production Prediction in Different Weathering Zones According to Field Data. Geotechnical and Geological Engineering, 2017, 35, 2381-2399. | 1.7 | 16 |
| 45 | A typical weathering profile of granitic rock in Johor, Malaysia based on joint characterization. Arabian Journal of Geosciences, 2015, 8, 2191-2201. | 1.3 | 15 |
| 46 | Utilizing regression models to find functions for determining ripping production based on laboratory tests. Measurement: Journal of the International Measurement Confederation, 2017, 111, 216-225. | 5.0 | 12 |
| 47 | Prediction of rock interlocking by developing two hybrid models based on GA and fuzzy system. Engineering With Computers, 2019, 35, 1419-1430. | 6.1 | 9 |
| 48 | Machine Learning Classifiers for Modeling Soil Characteristics by Geophysics Investigations: A Comparative Study. Applied Sciences (Switzerland), 2020, 10, 5734. | 2.5 | 9 |
| 49 | EFFECT OF GEOLOGICAL STRUCTURE AND BLASTING PRACTICE IN FLY ROCK ACCIDENT AT JOHOR, MALAYSIA. Jurnal Teknologi (Sciences and Engineering), 2016, 78, . | 0.4 | 8 |
| 50 | An excavatability classification system for surface excavation in sedimentary rocks. Bulletin of Engineering Geology and the Environment, 2017, 76, 241-251. | 3.5 | 7 |
| 51 | Performance evaluation of existing surface excavation assessment methods on weathered sedimentary rock. Bulletin of Engineering Geology and the Environment, 2017, 76, 205-218. | 3.5 | 6 |
| 52 | Recent Developments in Machine Learning and Flyrock Prediction. Lecture Notes in Civil Engineering, 2022, , 597-612. | 0.4 | 1 |
| 53 | Assessment of quarry volume using 2-D resistivity imaging method. , 2013, , . | | 0 |
| 54 | Rock mass classification for the assessment of blastability in tropically weathered igneous rocks. , 2022, , 255-283. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 55 | GEOSPATIAL APPROACH FOR GEOLOGICAL INVESTIGATION AT DISTRICT OF MERSING. Journal of Information System and Technology Management, 2021, 6, 174-185. | 0.1 | 0 |