

# Mingchao Li

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3837057/publications.pdf>

Version: 2024-02-01

71  
papers

1,155  
citations

394286

19  
h-index

454834

30  
g-index

71  
all docs

71  
docs citations

71  
times ranked

702  
citing authors

| #  | ARTICLE                                                                                                                                                                                                         | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | A hybrid approach for interval prediction of concrete dam displacements under uncertain conditions. <i>Engineering With Computers</i> , 2023, 39, 1285-1303.                                                    | 3.5 | 7         |
| 2  | A new interval prediction method for displacement behavior of concrete dams based on gradient boosted quantile regression. <i>Structural Control and Health Monitoring</i> , 2022, 29, e2859.                   | 1.9 | 11        |
| 3  | A new measuring method of dredging concentration based on hybrid ensemble deep learning technique. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 188, 110423.              | 2.5 | 5         |
| 4  | Wind-resistance performance investigation of 360° vertical seam-locked roof system reinforced by sliding support and sandwich panel. <i>Journal of Building Engineering</i> , 2022, 45, 103689.                 | 1.6 | 2         |
| 5  | Global Time Optimization Method for Dredging Construction Cycles of Trailing Suction Hopper Dredger Based on Grey System Model. <i>Journal of Construction Engineering and Management - ASCE</i> , 2022, 148, . | 2.0 | 2         |
| 6  | Seismic Analysis of Gravity Dam's Layered Foundation System Subjected to Earthquakes with Arbitrary Incident Angles. <i>International Journal of Geomechanics</i> , 2022, 22, .                                 | 1.3 | 9         |
| 7  | DRLSTM: A dual-stage deep learning approach driven by raw monitoring data for dam displacement prediction. <i>Advanced Engineering Informatics</i> , 2022, 51, 101510.                                          | 4.0 | 24        |
| 8  | A multiple-point monitoring model for concrete dam displacements based on correlated multiple-output support vector regression. <i>Structural Health Monitoring</i> , 2022, 21, 2768-2785.                      | 4.3 | 8         |
| 9  | Hybrid intelligence approach for performance estimation of rectangular CFST columns under different loading conditions. <i>Structures</i> , 2022, 39, 720-738.                                                  | 1.7 | 2         |
| 10 | Multi-sensor real-time monitoring of dam behavior using self-adaptive online sequential learning. <i>Automation in Construction</i> , 2022, 140, 104365.                                                        | 4.8 | 21        |
| 11 | Deep learning-based stochastic modelling and uncertainty analysis of fault networks. <i>Bulletin of Engineering Geology and the Environment</i> , 2022, 81, .                                                   | 1.6 | 5         |
| 12 | Human Error Analysis for Hydraulic Engineering: Comprehensive System to Reveal Accident Evolution Process with Text Knowledge. <i>Journal of Construction Engineering and Management - ASCE</i> , 2022, 148, .  | 2.0 | 5         |
| 13 | Developing a Common Library of Prefabricated Structure Components through Graphic Media Mapping to Improve Design Efficiency. <i>Journal of Construction Engineering and Management - ASCE</i> , 2021, 147, .   | 2.0 | 13        |
| 14 | Productivity analysis of trailing suction hopper dredgers using stacking strategy. <i>Automation in Construction</i> , 2021, 122, 103470.                                                                       | 4.8 | 11        |
| 15 | Productivity estimation of cutter suction dredger operation through data mining and learning from real-time big data. <i>Engineering, Construction and Architectural Management</i> , 2021, 28, 2023-2041.      | 1.8 | 6         |
| 16 | A robust prediction model for displacement of concrete dams subjected to irregular water level fluctuations. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 577-601.                    | 6.3 | 35        |
| 17 | Estimation of seismic wave incident angle using vibration response data and stacking ensemble algorithm. <i>Computers and Geotechnics</i> , 2021, 137, 104255.                                                  | 2.3 | 15        |
| 18 | A novel deep learning prediction model for concrete dam displacements using interpretable mixed attention mechanism. <i>Advanced Engineering Informatics</i> , 2021, 50, 101407.                                | 4.0 | 60        |

| #  | ARTICLE                                                                                                                                                                                                                    | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Digital twin-driven virtual sensor approach for safe construction operations of trailing suction hopper dredger. <i>Automation in Construction</i> , 2021, 132, 103961.                                                    | 4.8 | 23        |
| 20 | An integrated method for evaluating and predicting long-term operation safety of concrete dams considering lag effect. <i>Engineering With Computers</i> , 2021, 37, 2505-2519.                                            | 3.5 | 8         |
| 21 | Copula-based simulating and analyzing methods of rock mass fractures. <i>Computers and Geotechnics</i> , 2020, 127, 103779.                                                                                                | 2.3 | 12        |
| 22 | An optimized combination prediction model for concrete dam deformation considering quantitative evaluation and hysteresis correction. <i>Advanced Engineering Informatics</i> , 2020, 46, 101154.                          | 4.0 | 51        |
| 23 | Nonlinear Dynamic Response of a CC-RCC Combined Dam Structure under Oblique Incidence of Near-Fault Ground Motions. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 885.                                                 | 1.3 | 10        |
| 24 | Deformation coordination analysis of CC-RCC combined dam structures under dynamic loads. <i>Water Science and Engineering</i> , 2020, 13, 162-170.                                                                         | 1.4 | 4         |
| 25 | Onset detection of ultrasonic signals for the testing of concrete foundation piles by coupled continuous wavelet transform and machine learning algorithms. <i>Advanced Engineering Informatics</i> , 2020, 43, 101034.    | 4.0 | 27        |
| 26 | Thermal deformation coordination analysis of CC-RCC combined dam structure during construction and operation periods. <i>Engineering Structures</i> , 2020, 213, 110587.                                                   | 2.6 | 18        |
| 27 | Experimental study on electro-thermal and compaction properties of electrically conductive roller-compacted concrete overwintering layer in high RCC dams. <i>Construction and Building Materials</i> , 2020, 263, 120248. | 3.2 | 15        |
| 28 | An Automated Method to Generate and Evaluate Geochemical Tectonic Discrimination Diagrams Based on Topological Theory. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 62.                                                | 0.8 | 3         |
| 29 | Prediction of Rock Compressive Strength Using Machine Learning Algorithms Based on Spectrum Analysis of Geological Hammer. <i>Geotechnical and Geological Engineering</i> , 2019, 37, 475-489.                             | 0.8 | 26        |
| 30 | Tectonic discrimination of olivine in basalt using data mining techniques based on major elements: a comparative study from multiple perspectives. <i>Big Earth Data</i> , 2019, 3, 8-25.                                  | 2.0 | 15        |
| 31 | Prediction of Ultimate Axial Capacity of Square Concrete-Filled Steel Tubular Short Columns Using a Hybrid Intelligent Algorithm. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2802.                                   | 1.3 | 45        |
| 32 | Basalt Tectonic Discrimination Using Combined Machine Learning Approach. <i>Minerals (Basel)</i> , 2019, 9, 50222.                                                                                                         | 0.8 | 11        |
| 33 | Intelligent Identification for Rock-Mineral Microscopic Images Using Ensemble Machine Learning Algorithms. <i>Sensors</i> , 2019, 19, 3914.                                                                                | 2.1 | 50        |
| 34 | Measuring rock surface strength based on spectrograms with deep convolutional networks. <i>Computers and Geosciences</i> , 2019, 133, 104312.                                                                              | 2.0 | 16        |
| 35 | A Deep Learning Based Method for the Non-Destructive Measuring of Rock Strength through Hammering Sound. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3484.                                                            | 1.3 | 9         |
| 36 | An Enhanced Rock Mineral Recognition Method Integrating a Deep Learning Model and Clustering Algorithm. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 516.                                                               | 0.8 | 35        |

| #  | ARTICLE                                                                                                                                                                                                                 | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | A Mathematical Model Based on Bayesian Theory and Gaussian Copula for the Discrimination of Gabbroic Rocks from Three Tectonic Settings. <i>Journal of Geology</i> , 2019, 127, 611-626.                                | 0.7 | 4         |
| 38 | A new distributed time series evolution prediction model for dam deformation based on constituent elements. <i>Advanced Engineering Informatics</i> , 2019, 39, 41-52.                                                  | 4.0 | 61        |
| 39 | Data mining approach to construction productivity prediction for cutter suction dredgers. <i>Automation in Construction</i> , 2019, 105, 102833.                                                                        | 4.8 | 56        |
| 40 | Multiple mechanical properties prediction of hydraulic concrete in the form of combined damming by experimental data mining. <i>Construction and Building Materials</i> , 2019, 207, 661-671.                           | 3.2 | 29        |
| 41 | Multi-Pattern Data Mining and Recognition of Primary Electric Appliances from Single Non-Intrusive Load Monitoring Data. <i>Energies</i> , 2019, 12, 992.                                                               | 1.6 | 10        |
| 42 | Discriminating among tectonic settings of spinel based on multiple machine learning algorithms. <i>Big Earth Data</i> , 2019, 3, 67-82.                                                                                 | 2.0 | 11        |
| 43 | Isogeometric shape optimization of high RCC gravity dams with functionally graded partition structure considering hydraulic fracturing. <i>Engineering Structures</i> , 2019, 179, 341-352.                             | 2.6 | 18        |
| 44 | An Improved Computing Method for 3D Mechanical Connectivity Rates Based on a Polyhedral Simulation Model of Discrete Fracture Network in Rock Masses. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 1789-1800. | 2.6 | 15        |
| 45 | A trace map comparison algorithm for the discrete fracture network models of rock masses. <i>Computers and Geosciences</i> , 2018, 115, 31-41.                                                                          | 2.0 | 10        |
| 46 | Automated Classification Analysis of Geological Structures Based on Images Data and Deep Learning Model. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2493.                                                         | 1.3 | 28        |
| 47 | Novel Method of Construction-Efficiency Evaluation of Cutter Suction Dredger Based on Real-Time Monitoring Data. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2018, 144, 05018007.                 | 0.5 | 15        |
| 48 | An enhanced ISODATA algorithm for recognizing multiple electric appliances from the aggregated power consumption dataset. <i>Energy and Buildings</i> , 2017, 140, 305-316.                                             | 3.1 | 26        |
| 49 | Mechanical properties investigation of high-fluidity impermeable and anti-cracking concrete in high roller-compacted concrete dams. <i>Construction and Building Materials</i> , 2017, 156, 861-870.                    | 3.2 | 12        |
| 50 | Refined modeling and identification of complex rock blocks and block-groups based on an enhanced DFN model. <i>Tunnelling and Underground Space Technology</i> , 2017, 62, 23-34.                                       | 3.0 | 20        |
| 51 | 3D identification and stability analysis of key surface blocks of rock slope. <i>Transactions of Tianjin University</i> , 2016, 22, 317-323.                                                                            | 3.3 | 7         |
| 52 | Seepage and stress analysis of anti-seepage structures constructed with different concrete materials in an RCC gravity dam. <i>Water Science and Engineering</i> , 2015, 8, 326-334.                                    | 1.4 | 32        |
| 53 | A multidimensional information model for managing construction information. <i>Journal of Industrial and Management Optimization</i> , 2015, 11, 1285-1300.                                                             | 0.8 | 11        |
| 54 | 3D Multiscale Integrated Modeling Approach of Complex Rock Mass Structures. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-6.                                                                              | 0.6 | 0         |

| #  | ARTICLE                                                                                                                                                                                                            | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Alternative 3D modeling approaches based on complex multi-source geological data interpretation. Transactions of Tianjin University, 2014, 20, 7-14.                                                               | 3.3 | 1         |
| 56 | Analyzing heating equipment's operations based on measured data. Energy and Buildings, 2014, 82, 47-56.                                                                                                            | 3.1 | 17        |
| 57 | Method for Identifying and Analyzing 3D Surface Blocks of Rock Mass Structures. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 1756-1764.                                             | 1.5 | 6         |
| 58 | Automatic generation method of geological cross-sections in dredging engineering based on 3D solid NURBS models. Transactions of Tianjin University, 2012, 18, 393-400.                                            | 3.3 | 5         |
| 59 | Numerical calculation of channel dredging volume using 3D digital stratum model. Transactions of Tianjin University, 2012, 18, 90-96.                                                                              | 3.3 | 1         |
| 60 | Dam break threshold value and risk probability assessment for an earth dam. Natural Hazards, 2011, 59, 129-147.                                                                                                    | 1.6 | 30        |
| 61 | Theory and application of loss of life risk analysis for dam break. Transactions of Tianjin University, 2010, 16, 383-387.                                                                                         | 3.3 | 5         |
| 62 | Theory on real-time control of construction quality and progress and its application to high arc dam. Science China Technological Sciences, 2010, 53, 2611-2618.                                                   | 2.0 | 15        |
| 63 | Multi-Objective Optimization Method for Construction site layout of Interbasin Water Diversion Project. , 2009, , .                                                                                                |     | 0         |
| 64 | Dynamic simulation and optimization approach to construction diversion of hydraulic and hydroelectric projects. Science in China Series D: Earth Sciences, 2009, 52, 1990-1998.                                    | 0.9 | 1         |
| 65 | NURBS reconstruction of digital terrain for hydropower engineering based on TIN model. Progress in Natural Science: Materials International, 2008, 18, 1409-1415.                                                  | 1.8 | 17        |
| 66 | 3D Evaluation and Analysis of Landslide Instability Mechanism of Reservoir Banks: A Case Study in the Three Gorges Reservoir. , 2008, , .                                                                          |     | 2         |
| 67 | 3D integrated modeling approach to geo-engineering objects of hydraulic and hydroelectric projects. Science in China Series D: Earth Sciences, 2007, 50, 329-342.                                                  | 0.9 | 16        |
| 68 | Enhanced NURBS modeling and visualization for large 3D geoengineering applications: An example from the Jinping first-level hydropower engineering project, China. Computers and Geosciences, 2006, 32, 1270-1282. | 2.0 | 50        |
| 69 | Discussion of "ISO 14000 and the Construction Industry: Survey in China," by S. X. Zeng, C. M. Tam, Z. M. Deng, and Vivian W. Y. Tam. Journal of Management in Engineering - ASCE, 2005, 21, 148-149.              | 2.6 | 1         |
| 70 | GIS-based 3D dynamic visualization of simulated complex construction process. , 2004, , .                                                                                                                          |     | 1         |
| 71 | NURBS-Based 3D Graphical Modeling and Visualization of Geological Structures. , 0, , .                                                                                                                             |     | 3         |