

Dian-Qing Li

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11039226/publications.pdf>

Version: 2024-02-01

96
papers

4,848
citations

81743

39
h-index

98622

67
g-index

97
all docs

97
docs citations

97
times ranked

1642
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A multiple response-surface method for slope reliability analysis considering spatial variability of soil properties. <i>Engineering Geology</i> , 2015, 187, 60-72. | 2.9 | 340 |
| 2 | Slope reliability analysis considering spatially variable shear strength parameters using a non-intrusive stochastic finite element method. <i>Engineering Geology</i> , 2014, 168, 120-128. | 2.9 | 302 |
| 3 | Efficient System Reliability Analysis of Slope Stability in Spatially Variable Soils Using Monte Carlo Simulation. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015, 141, . | 1.5 | 262 |
| 4 | Effect of spatially variable shear strength parameters with linearly increasing mean trend on reliability of infinite slopes. <i>Structural Safety</i> , 2014, 49, 45-55. | 2.8 | 197 |
| 5 | Response surface methods for slope reliability analysis: Review and comparison. <i>Engineering Geology</i> , 2016, 203, 3-14. | 2.9 | 197 |
| 6 | Enhancement of random finite element method in reliability analysis and risk assessment of soil slopes using Subset Simulation. <i>Landslides</i> , 2016, 13, 293-303. | 2.7 | 187 |
| 7 | Impact of copula selection on geotechnical reliability under incomplete probability information. <i>Computers and Geotechnics</i> , 2013, 49, 264-278. | 2.3 | 159 |
| 8 | Copula-based approaches for evaluating slope reliability under incomplete probability information. <i>Structural Safety</i> , 2015, 52, 90-99. | 2.8 | 156 |
| 9 | Three-dimensional slope reliability and risk assessment using auxiliary random finite element method. <i>Computers and Geotechnics</i> , 2016, 79, 146-158. | 2.3 | 109 |
| 10 | Bivariate simulation using copula and its application to probabilistic pile settlement analysis. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 597-617. | 1.7 | 108 |
| 11 | Impact of copulas for modeling bivariate distributions on system reliability. <i>Structural Safety</i> , 2013, 44, 80-90. | 2.8 | 98 |
| 12 | Evaluating slope stability uncertainty using coupled Markov chain. <i>Computers and Geotechnics</i> , 2016, 73, 72-82. | 2.3 | 92 |
| 13 | Simulation of geologic uncertainty using coupled Markov chain. <i>Engineering Geology</i> , 2016, 207, 129-140. | 2.9 | 89 |
| 14 | Bivariate distribution of shear strength parameters using copulas and its impact on geotechnical system reliability. <i>Computers and Geotechnics</i> , 2015, 68, 184-195. | 2.3 | 88 |
| 15 | Effect of spatial variability of shear strength parameters on critical slip surfaces of slopes. <i>Engineering Geology</i> , 2018, 239, 41-49. | 2.9 | 84 |
| 16 | Efficient and consistent reliability analysis of soil slope stability using both limit equilibrium analysis and finite element analysis. <i>Applied Mathematical Modelling</i> , 2016, 40, 5216-5229. | 2.2 | 80 |
| 17 | CPT-Based Probabilistic Characterization of Three-Dimensional Spatial Variability Using MLE. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018, 144, . | 1.5 | 79 |
| 18 | Investigation of slope failure mode evolution during large deformation in spatially variable soils by random limit equilibrium and material point methods. <i>Computers and Geotechnics</i> , 2019, 111, 301-312. | 2.3 | 78 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Reliability evaluation of slope considering geological uncertainty and inherent variability of soil parameters. <i>Computers and Geotechnics</i> , 2017, 92, 121-131. | 2.3 | 77 |
| 20 | Efficient method for probabilistic estimation of spatially varied hydraulic properties in a soil slope based on field responses: A Bayesian approach. <i>Computers and Geotechnics</i> , 2018, 102, 262-272. | 2.3 | 69 |
| 21 | Bayesian identification of soil stratigraphy based on soil behaviour type index. <i>Canadian Geotechnical Journal</i> , 2019, 56, 570-586. | 1.4 | 66 |
| 22 | System reliability analysis of slope stability using generalized Subset Simulation. <i>Applied Mathematical Modelling</i> , 2017, 46, 650-664. | 2.2 | 65 |
| 23 | Bayesian identification of random field model using indirect test data. <i>Engineering Geology</i> , 2016, 210, 197-211. | 2.9 | 60 |
| 24 | Adaptive Monte Carlo simulation method for system reliability analysis of slope stability based on limit equilibrium methods. <i>Engineering Geology</i> , 2020, 264, 105384. | 2.9 | 59 |
| 25 | SS-XGBoost: A Machine Learning Framework for Predicting Newmark Sliding Displacements of Slopes. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020, 146, . | 1.5 | 59 |
| 26 | Reliability analysis of unsaturated slope stability considering SWCC model selection and parameter uncertainties. <i>Engineering Geology</i> , 2019, 260, 105207. | 2.9 | 58 |
| 27 | Bootstrap method for characterizing the effect of uncertainty in shear strength parameters on slope reliability. <i>Reliability Engineering and System Safety</i> , 2015, 140, 99-106. | 5.1 | 57 |
| 28 | Reliability analysis of strip footing considering spatially variable undrained shear strength that linearly increases with depth. <i>Soils and Foundations</i> , 2015, 55, 866-880. | 1.3 | 56 |
| 29 | Site-specific characterization of soil properties using multiple measurements from different test procedures at different locations – A Bayesian sequential updating approach. <i>Engineering Geology</i> , 2016, 211, 150-161. | 2.9 | 56 |
| 30 | Embankment prediction using testing data and monitored behaviour: A Bayesian updating approach. <i>Computers and Geotechnics</i> , 2018, 93, 150-162. | 2.3 | 50 |
| 31 | Subset simulation for efficient slope reliability analysis involving copula-based cross-correlated random fields. <i>Computers and Geotechnics</i> , 2020, 118, 103326. | 2.3 | 50 |
| 32 | Bayesian model comparison and characterization of bivariate distribution for shear strength parameters of soil. <i>Computers and Geotechnics</i> , 2018, 95, 110-118. | 2.3 | 49 |
| 33 | Stepwise covariance matrix decomposition for efficient simulation of multivariate large-scale three-dimensional random fields. <i>Applied Mathematical Modelling</i> , 2019, 68, 169-181. | 2.2 | 48 |
| 34 | Time-dependent system reliability of anchored rock slopes considering rock bolt corrosion effect. <i>Engineering Geology</i> , 2014, 175, 1-8. | 2.9 | 47 |
| 35 | Improved knowledge-based clustered partitioning approach and its application to slope reliability analysis. <i>Computers and Geotechnics</i> , 2012, 45, 34-43. | 2.3 | 46 |
| 36 | Performance of translation approach for modeling correlated non-normal variables. <i>Structural Safety</i> , 2012, 39, 52-61. | 2.8 | 44 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Efficient 3-D reliability analysis of the 530m high abutment slope at Jinping I Hydropower Station during construction. <i>Engineering Geology</i> , 2015, 195, 269-281. | 2.9 | 44 |
| 38 | Coupled thermal-hydraulic modeling of artificial ground freezing with uncertainties in pipe inclination and thermal conductivity. <i>Acta Geotechnica</i> , 2022, 17, 257-274. | 2.9 | 44 |
| 39 | Characterization of uncertainty in probabilistic model using bootstrap method and its application to reliability of piles. <i>Applied Mathematical Modelling</i> , 2015, 39, 5310-5326. | 2.2 | 41 |
| 40 | Modeling multivariate cross-correlated geotechnical random fields using vine copulas for slope reliability analysis. <i>Computers and Geotechnics</i> , 2020, 127, 103784. | 2.3 | 41 |
| 41 | Probabilistic characterization and simulation of realistic particle shape based on sphere harmonic representation and Nataf transformation. <i>Powder Technology</i> , 2020, 360, 209-220. | 2.1 | 39 |
| 42 | Full probabilistic design of slopes in spatially variable soils using simplified reliability analysis method. <i>Georisk</i> , 2017, 11, 146-159. | 2.6 | 38 |
| 43 | Determination of site-specific soil-water characteristic curve from a limited number of test data – A Bayesian perspective. <i>Geoscience Frontiers</i> , 2018, 9, 1665-1677. | 4.3 | 38 |
| 44 | Modeling multivariate distribution of multiple soil parameters using vine copula model. <i>Computers and Geotechnics</i> , 2020, 118, 103340. | 2.3 | 36 |
| 45 | Influence of spatial variability of soil strength parameters on probabilistic seismic slope displacement hazard analysis. <i>Engineering Geology</i> , 2020, 276, 105744. | 2.9 | 35 |
| 46 | System reliability analysis of rock slope stability involving correlated failure modes. <i>KSCE Journal of Civil Engineering</i> , 2011, 15, 1349-1359. | 0.9 | 34 |
| 47 | Model Uncertainty for Predicting the Bearing Capacity of Sand Overlying Clay. <i>International Journal of Geomechanics</i> , 2017, 17, . | 1.3 | 34 |
| 48 | Response surface guided adaptive slope reliability analysis in spatially varying soils. <i>Computers and Geotechnics</i> , 2021, 132, 103966. | 2.3 | 34 |
| 49 | Area failure probability method for slope system failure risk assessment. <i>Computers and Geotechnics</i> , 2019, 107, 36-44. | 2.3 | 31 |
| 50 | Numerical simulation of the 1995 rainfall-induced Fei Tsui Road landslide in Hong Kong: new insights from hydro-mechanically coupled material point method. <i>Landslides</i> , 2020, 17, 2755-2775. | 2.7 | 31 |
| 51 | Efficient reliability updating of slope stability by reweighting failure samples generated by Monte Carlo simulation. <i>Computers and Geotechnics</i> , 2015, 69, 588-600. | 2.3 | 30 |
| 52 | Impact of sample size on geotechnical probabilistic model identification. <i>Computers and Geotechnics</i> , 2017, 87, 229-240. | 2.3 | 30 |
| 53 | Reliability-based robust geotechnical design using Monte Carlo simulation. <i>Bulletin of Engineering Geology and the Environment</i> , 2017, 76, 1217-1227. | 1.6 | 29 |
| 54 | Probabilistic characterization of two-dimensional soil profile by integrating cone penetration test (CPT) with multi-channel analysis of surface wave (MASW) data. <i>Canadian Geotechnical Journal</i> , 2018, 55, 1168-1181. | 1.4 | 29 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Model-independent strength-reduction factor for effect of spatial variability on tunnel with improved soil surrounds. <i>Geotechnique</i> , 2021, 71, 406-422. | 2.2 | 29 |
| 56 | Bivariate distribution models using copulas for reliability analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2013, 227, 499-512. | 0.6 | 27 |
| 57 | Two-stage dimension reduction method for meta-model based slope reliability analysis in spatially variable soils. <i>Structural Safety</i> , 2019, 81, 101872. | 2.8 | 27 |
| 58 | A comparative study of three collocation point methods for odd order stochastic response surface method. <i>Structural Engineering and Mechanics</i> , 2013, 45, 595-611. | 1.0 | 26 |
| 59 | Probabilistic Stratification Modeling in Geotechnical Site Characterization. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2017, 3, . | 1.1 | 25 |
| 60 | Reliability analysis of serviceability performance for an underground cavern using a non-intrusive stochastic method. <i>Environmental Earth Sciences</i> , 2014, 71, 1169-1182. | 1.3 | 23 |
| 61 | Correlation between grain shape and critical state characteristics of uniformly graded sands: A 3D DEM study. <i>Acta Geotechnica</i> , 2022, 17, 2783-2798. | 2.9 | 23 |
| 62 | A generalized model for effective thermal conductivity of soils considering porosity and mineral composition. <i>Acta Geotechnica</i> , 2021, 16, 3455-3466. | 2.9 | 21 |
| 63 | Effect of mesoscale internal structure on effective thermal conductivity of anisotropic geomaterials. <i>Acta Geotechnica</i> , 2022, 17, 3553-3566. | 2.9 | 21 |
| 64 | Robust estimation of correlation coefficients among soil parameters under the multivariate normal framework. <i>Structural Safety</i> , 2016, 63, 21-32. | 2.8 | 19 |
| 65 | Chapter 4 Statistical characterization of multivariate geotechnical data. , 2016, , 89-126. | | 19 |
| 66 | Slope stability analysis in the Three Gorges Reservoir Area considering effect of antecedent rainfall. <i>Georisk</i> , 2017, 11, 161-172. | 2.6 | 19 |
| 67 | Statistical characterization of shear strength parameters of rock mass for hydropower projects in China. <i>Engineering Geology</i> , 2018, 245, 258-265. | 2.9 | 18 |
| 68 | Reliability sensitivity analysis of geotechnical monitoring variables using Bayesian updating. <i>Engineering Geology</i> , 2018, 245, 130-140. | 2.9 | 16 |
| 69 | Probabilistic Seismic Displacement Hazard Assessment of Earth Slopes Incorporating Spatially Random Soil Parameters. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, . | 1.5 | 14 |
| 70 | Impact of translation approach for modelling correlated non-normal variables on parallel system reliability. <i>Structure and Infrastructure Engineering</i> , 2013, 9, 969-982. | 2.0 | 12 |
| 71 | Jackknifing for modeling sampling properties of soil statistics for geotechnical reliability analysis. <i>Computers and Geotechnics</i> , 2020, 125, 103685. | 2.3 | 12 |
| 72 | Modeling multivariate distributions using Monte Carlo simulation for structural reliability analysis with complex performance function. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2013, 227, 109-118. | 0.6 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | A patching algorithm for conditional random fields in modeling material properties. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 377, 113719. | 3.4 | 11 |
| 74 | Reliability-based monitoring sensitivity analysis for reinforced slopes using BUS and subset simulation methods. <i>Engineering Geology</i> , 2021, 293, 106331. | 2.9 | 11 |
| 75 | Expanded Database Assessment of Design Methods for Spread Foundations under Axial Compression and Uplift Loading. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020, 146, . | 1.5 | 9 |
| 76 | Vine Copula-Based Dependence Modeling of Multivariate Ground-Motion Intensity Measures and the Impact on Probabilistic Seismic Slope Displacement Hazard Analysis. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 2967-2990. | 1.1 | 9 |
| 77 | An analytical method for quantifying the correlation among slope failure modes in spatially variable soils. <i>Bulletin of Engineering Geology and the Environment</i> , 2017, 76, 1343-1352. | 1.6 | 8 |
| 78 | Robustness of Subset Simulation to Functional Forms of Limit State Functions in System Reliability Analysis: Revisiting and Improvement. <i>IEEE Transactions on Reliability</i> , 2018, 67, 66-78. | 3.5 | 8 |
| 79 | Copula-based earthquake early warning decision-making strategy. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 115, 324-330. | 1.9 | 8 |
| 80 | Probabilistically quantifying the effect of geotechnical anisotropy on landslide susceptibility. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 6615-6627. | 1.6 | 8 |
| 81 | Identification of optimal ground-motion intensity measures for assessing liquefaction triggering and lateral displacement of liquefiable sloping grounds. <i>Earthquake Spectra</i> , 2022, 38, 2707-2730. | 1.6 | 8 |
| 82 | Efficient Bayesian characterization of cohesion and friction angle of soil using parametric bootstrap method. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 1809-1828. | 1.6 | 7 |
| 83 | Efficient and flexible Bayesian updating of embankment settlement on soft soils based on different monitoring datasets. <i>Acta Geotechnica</i> , 2022, 17, 1273-1294. | 2.9 | 7 |
| 84 | Revisiting statistical correlation between Mohr-Coulomb shear strength parameters of Hoek-Brown rock masses. <i>Tunnelling and Underground Space Technology</i> , 2018, 77, 36-44. | 3.0 | 6 |
| 85 | Joint Probability Modeling for Two Debris-Flow Variables: Copula Approach. <i>Natural Hazards Review</i> , 2018, 19, . | 0.8 | 5 |
| 86 | Bayesian learning of Gaussian mixture model for calculating debris flow exceedance probability. <i>Georisk</i> , 2022, 16, 154-177. | 2.6 | 5 |
| 87 | Probabilistic decoupled approach to estimate seismic rotational displacements of flexible slopes considering depth-dependent soil variability. <i>Acta Geotechnica</i> , 2022, 17, 1551-1567. | 2.9 | 5 |
| 88 | Efficient System Reliability Analysis of Multi-Layered Soil Slopes Using Multiple Stochastic Response Surfaces. , 2017, , . | | 4 |
| 89 | Auxiliary Random Finite Element Method for Risk Assessment of 3-D Slope. , 2017, , . | | 2 |
| 90 | Modeling Irregularly Inclined Fissure Surfaces within Nonuniform Expansive Soil Slopes. <i>International Journal of Geomechanics</i> , 2022, 22, . | 1.3 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 91 | Reply to the discussion on “Modeling multivariate cross-correlated geotechnical random fields using vine copulas for slope reliability analysis”. Computers and Geotechnics, 2021, 132, 104023. | 2.3 | 1 |
| 92 | Adaptive Monte Carlo Simulation Method and Its Applications to Reliability Analysis of Series Systems with a Large Number of Components. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2022, 8, . | 1.1 | 1 |
| 93 | Hydrothermal Performance of In-Tunnel Ground Freezing Subjected to Drilling Inaccuracy and Seepage Flow. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2022, 8, . | 1.1 | 1 |
| 94 | Two-stage Bayesian experimental design optimization for measuring soil-water characteristic curve. Bulletin of Engineering Geology and the Environment, 2022, 81, 1. | 1.6 | 1 |
| 95 | Estimation of horizontal transition probability matrix for coupled Markov chain. Japanese Geotechnical Society Special Publication, 2016, 2, 2423-2428. | 0.2 | 0 |
| 96 | Effects of specimen preparation method and strain rate on the mechanical responses of a clayey loess. Arabian Journal of Geosciences, 2021, 14, 1. | 0.6 | 0 |