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### **EDUCATION**

1. Doctor of Philosophy in Civil Engineering, December 2014  
Clemson University, Clemson, SC, USA (**advisor: Prof. C. Hsein Juang**)
2. Bachelor of Science in Civil Engineering, July 2011  
Tongji University, Shanghai, China (advisor: Prof. Hongwei Huang)

### **EXPERIENCE**

1. **Professor**, China University of Geosciences (Wuhan), July 2017-present
2. **Research Assistant Professor**, Clemson University, January 2015-June 2017

### **RESEARCH AREAS**

1. Engineering Geology
2. Geohazards
3. Site Characterization
4. Risk and Reliability
5. Uncertainty modelling
6. Remote Sensing

### **PROFESSIONAL MEMBERSHIPS/REGISTRATION**

1. International Association for Engineering Geology and the Environment (IAEG), **Member**
2. TC304 - Engineering Practice of Risk Assessment and Management of ISSMGE, **Member**
3. ASCE/G-I Risk Assessment and Management Committee (ASCE/G-I RAM), **Member**
4. American Society of Civil Engineers (ASCE), **Associate Member**
5. Engineering Geology Branch of China Geological Society, **Member**
6. Risk and Insurance Research Branch of China Civil Engineering Society, **Member**

### **PROFESSIONAL SERVICE - JOURNAL EDITORIAL BOARD MEMBER**

1. Engineering Geology, **Co-Editor-in-Chief**, January 2022-present
2. Engineering Geology, **Managing Editor**, January 2021-December 2021
3. Engineering Geology, **Assistant Editor**, June 2018-December 2020
4. Engineering Geology, **Editorial Board Member**, 2016-2021
5. Bulletin of Engineering Geology and the Environment (IAEG), **Editorial Board Member**, 2015-present
6. Marine Georesources & Geotechnology, **Editorial Board Member**, 2015-present

7. International Journal of Geotechnical Engineering, **Editorial Board Member**, 2015-present

### **PROFESSIONAL SERVICE - JOURNAL REVIEWER**

Géotechnique, Engineering Geology, Canadian Geotechnical Journal, Journal of Geotechnical and Geoenvironmental Engineering, Acta Geotechnica, Tunnelling and Underground Space Technology, IEEE Transactions on Reliability, Computers and Geotechnics, International Journal for Numerical and Analytical Methods in Geomechanics, Engineering Structures, Bulletin of Engineering Geology and the Environment, Natural Hazards, Journal of Engineering Mechanics, Soil Dynamics and Earthquake Engineering, Marine Georesources & Geotechnology, Journal of Earthquake Engineering, Mathematical Problems in Engineering, Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards, International Journal of Geotechnical Engineering, Journal of GeoEngineering, etc.

### **PROFESSIONAL SERVICE - CONFERENCE ACTIVITIES**

1. **IAEG XIV Congress 2022** (Chengdu, China), **Session Organizer**
2. The 8th International Symposium on Geotechnical Safety and Risk (ISGSR) 2022, (Newcastle, Australia), **Session Organizer**
3. **IAEG-ARC13 2021** (Singapore), **Session Chair**
4. The 4th National Young Scholar Symposium on Engineering Risk Analysis & Management of China 2020 (Wuhan, China), **Organization Chair**
5. **IAEG-ARC12 2019** (Seoul, Korea), **Session Chair**
6. The 7th International Symposium on Geotechnical Safety and Risk (ISGSR) 2019 (Taipei, China), **Scientific Committee, Session Organizer, and Session Chair**
7. Geo-Risk 2017/ISGSR 2017 (Denver, USA), **Scientific Committee**
8. GeoShanghai 2018 International Conference (Shanghai, China), **Session Chair**
9. The 6th Asian-Pacific Symposium on Structural Reliability and its Applications (APSSRA6) 2016 (Shanghai, China), **Session Chair**
10. Over ten national conferences and symposiums on geohazards or risk in China, **Scientific Committee and Session Chair**

### **HONORS AND AWARDS**

1. **GEOSNet Young Researcher Award**, GEOSNet, 2022
2. **Bright Spark lecture**, International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), 2022
3. **Outstanding Editorial Board Member Award**, Engineering Geology, 2021
4. **Gudezhen Young Researcher Award**, Engineering Geology Branch of China Geological Society, 2020
5. **Excellent Paper Award**, Journal of GeoEngineering, 2015
6. **Best Paper Award**, GeoShanghai 2014 International Conference, 2014

7. Nomination for Best Paper Award (Wilson H. Tang Best Paper Award) by APSSRA6, 2016
8. Nomination for Best Paper Award (Middlebrooks Award) by ASCE/G-I RAM, 2015
9. Nomination for Best Paper Award by Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards, 2015

### **RESEARCH PROJECTS**

1. Theory for Major Landslide Prediction and Forecasting based on Physical and Mechanical Process (42090055), Natural Science Foundation of China, **Co-PI**
2. Quantitative Risk Assessment of Landslide Geohazards based upon Image Recognition and Uncertainty Analysis (41977242), Natural Science Foundation of China, **PI**
3. Deformation Evolution of Progressive Landslides considering Geological Model Uncertainty (41702294), Natural Science Foundation of China, **PI**
4. Transforming Robust Design Concept into a Novel Geotechnical Design Tool (CMMI-1200117), National Science Foundation of USA, Primary Research Assistant

### **REFEREED JOURNAL PUBLICATIONS (\*corresponding author)**

1. **Gong, W.**, Tian S., Wang, L.\* , Li Z., Tang, H., Li, T., and Zhang, L. (2022). "Interval prediction of landslide displacement with dual-output least squares support vector machine and particle swarm optimization algorithms." *Acta Geotechnica*, 1-19.
2. Li, X., Liu, J., **Gong, W.\***, Xu, Y., and Bowa, V.M. (2022). "A discrete fracture network based modeling scheme for analyzing the stability of highly fractured rock slope." *Computers and Geotechnics*, 141, 104558.
3. Ren, T., **Gong, W.\***, Gao, L., Zhao, F., and Cheng, Z. (2022). "An interpretation approach of ascending-descending SAR data for landslide identification." *Remote Sensing*, 14(5), 1299.
4. Han, X., **Gong, W.\***, Juang, C.H., Bowa, V.M., and Khoshnevisan, S. (2022). "CPTu-SPT correlation analyses based on pairwise data in southwestern Taiwan." *Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards*, 1-18.
5. Li, B., Tang, H.\* , **Gong, W.\***, Cheng, Z., Li, T., and Wang, L. (2022). "Numerical study of the runout behavior of the Kamenziwan landslide in the Three Gorges Reservoir Region, China." *Landslides*, 19, 963-976.
6. Juang, C.H.\* , **Gong, W.**, and Wasowski, J. (2022). "Trending topics of significance in engineering geology." *Engineering Geology*, 106460.
7. Li, T., Pan, Q.\* , Shen, Z.\* , and **Gong, W.** (2022). "Probabilistic stability analysis of a tunnel face in spatially random Hoek-Brown rock masses with a multi-tangent method." *Rock Mechanics and Rock Engineering*, 1-17.
8. Chen, J.\* , Gu, Y, Luo, L., **Gong, W.**, and Wang, Y. (2022). "Two-view correspondence learning via complex information extraction." *Multimedia Tools and Applications*, 81(3), 3939-3957.
9. Chen, J., Li, Z., Peng, C.\* , Wang, Y., and **Gong, W.** (2022). "UAV image stitching based on optimal seam and half-projective warp." *Remote Sensing*, 14(5), 1068.
10. Chen, J., Yang, M., Peng, C.\* , Luo, L., and **Gong, W.** (2022). "Robust feature matching

- via local consensus.” IEEE Transactions on Geoscience and Remote Sensing, 60, 1-16.
11. **Gong, W.**, Zhao, C.\*, Juang, C.H., Zhang, Y., Tang, H., and Lu, Y. (2021). “Coupled characterization of stratigraphic and geo-properties uncertainties-A conditional random field approach.” Engineering Geology, 294, 106348.
  12. **Gong, W.**, Hu, M., Zhang, Y.\*, Tang, H., Liu, D., and Song, Q. (2021). “GIS-based landslide susceptibility mapping using ensemble methods for Fengjie County in the Three Gorges Reservoir Region, China.” International Journal of Environmental Science and Technology, 1-18.
  13. **Gong, W.\***, Juang, C.H., and Wasowski, J. (2021). “Geohazards and human settlements: Lessons learned from multiple relocation events in Badong, China-Engineering geologist’s perspective.” Engineering Geology, 285, 106051. **(ESI highly cited paper)**
  14. Li, Z., **Gong, W.\***, Li, T., Juang, C.H., Chen, J., and Wang, L. (2021). “Probabilistic back analysis for improved reliability of geotechnical predictions considering parameters uncertainty, model bias, and observation error.” Tunnelling and Underground Space Technology, 115(4), 104051.
  15. Zhang, L., **Gong, W.\***, Li, X., Tan, X., Zhao, C., Wang, L. (2021). “A comparison study between 2-D and 3-D slope stability analyses considering spatial soil variability.” Journal of Zhejiang University-SCIENCE A (Applied Physics & Engineering), 23(3), 228-224.
  16. Li, T., **Gong, W.\***, and Tang, H. (2021). “Three-dimensional stochastic geological modeling for probabilistic stability analysis of a circular tunnel face.” Tunnelling and Underground Space Technology, 118, 104190.
  17. Cheng, Z., **Gong, W.\***, Tang, H., Juang, C.H., Deng, Q., Chen, J., and Ye, X. (2021). “UAV photogrammetry-based remote sensing and preliminary assessment of the behavior of a landslide in Guizhou, China.” Engineering Geology, 289, 106172.
  18. Zhao, C., **Gong W.\***, Li, T.Z., Juang, C.H., Tang, H., and Wang, H. (2021). “Probabilistic characterization of subsurface stratigraphic configuration with modified random field approach.” Engineering Geology, 288, 106138.
  19. Li, B., **Gong, W.\***, Tang, H.\*, Zou, Z., Bowa, V.M., and Juang, C.H. (2021). “Probabilistic analysis of a discrete element modelling of the runout behavior of the Jiweishan landslide.” International Journal for Numerical and Analytical Methods in Geomechanics, 45(8), 1120-1138. **(ESI highly cited paper and hot paper)**
  20. Ren, T., **Gong, W.\***, Bowa, V.M., Tang, H., Chen, J., and Zhao, F. (2021). “An improved R-Index model for terrain visibility analysis for landslide monitoring with InSAR.” Remote Sensing, 13(10), 1938.
  21. Li, T., **Gong, W.\***, and Yang, X. (2021). “Stability analysis of a non-circular tunnel face in soils characterized by modified Mohr-Coulomb yield criterion.” Tunnelling and Underground Space Technology, 109, 103785.
  22. Bowa, V.M.\*, and **Gong, W.** (2021). “Analytical technique for stability analyses of the rock slope subjected to slide head toppling failure mechanisms considering groundwater and stabilization effects.” International Journal of Geo-Engineering, 12(1), 1-25.
  23. Fei, S., Tan, X.\*, **Gong, W.**, Dong, X., Zha, F., and Xu, L. (2021). “Reliability analysis of strip footing under rainfall using KL-FORM.” Geomechanics and Engineering, 24(2), 167-178.

24. Xu, Q., Chen, J.\* , Luo, L., **Gong, W.**, and Wang, Y. (2021). “UAV image stitching based on mesh-guided deformation and ground constraint.” *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 14, 4465-4475.
25. Guo, D., Chen, J.\* , Luo, L., **Gong, W.**, and Wei, L. (2021). “UAV image stitching using shape-preserving warp combined with global alignment.” *IEEE Geoscience and Remote Sensing Letters*, 19, 1-5.
26. **Gong, W.\***, Zhao, C., Juang, C.H., Tang, H., Wang, H., and Hu, X. (2020). “Stratigraphic uncertainty modelling with random field approach.” *Computers and Geotechnics*, 125, 103681.
27. **Gong, W.\***, Tang, H., Juang, C.H., and Wang, L.\* (2020). “Optimization design of stabilizing piles in slopes considering spatial variability.” *Acta Geotechnica*, 15, 3243-3259.
28. Fan, B., Wang, L.\* , **Gong, W.**, Wang, C., Jiang, Y., and Sun, Z. (2020). “Improved robust design of rock wedge slopes with a new robustness measure.” *Computers and Geotechnics*, 123, 103548.
29. Cao, Z\*., Xu, Y., **Gong, W.**, Cai, Y., and Yuan, Z. (2020). “Probabilistic analysis of environmental vibrations induced by high-speed trains.” *Soil Dynamics and Earthquake Engineering*, 139, 106343.
30. Wan, Q., Chen, J.\* , Luo, L., **Gong, W.**, and Wei, L. (2020). “Drone image stitching using local mesh-based bundle adjustment and shape-preserving transform.” *IEEE Transactions on Geoscience and Remote Sensing*. 59(8), 7027-7037.
31. Xu, Q., Chen, J.\* , Luo, L., **Gong, W.**, and Wang, Y. (2020). “UAV image mosaicking based on multi-region guided local projection deformation.” *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 13, 3844-3855.
32. Chen, J.\* , Wang, G., Luo, L., **Gong, W.**, and Cheng, Z. (2020). “Building area estimation in drone aerial images based on mask R-CNN.” *IEEE Geoscience and Remote Sensing Letters*, 18(5), 891-894. **(ESI highly cited paper and hot paper)**
33. Li, C., Chen, W., Song, Y., **Gong, W.**, and Zhao, Q.\* (2020). “Optimal location of piles in stabilizing slopes based on a simplified double-row piles model.” *KSCE Journal of Civil Engineering*, 24(2), 377-389.
34. Zhong, Z., Zhang, S., Zhao, M.\* , Hou, B., and **Gong, W.** (2020). “Reliability-based robust geotechnical design of spread foundations considering multiple failure modes.” *Computers and Geotechnics*, 119, 103292.
35. **Gong, W.\***, Tang, H., Wang, H., Wang, X., and Juang, C.H. (2019). “Probabilistic analysis and design of stabilizing piles in slope considering stratigraphic uncertainty.” *Engineering Geology*, 259, 105162.
36. **Gong, W.\***, Martin II, J.R., Juang, C.H., Dickenson, S.E., and McCullough, N.J. (2019). “A hybrid framework for developing empirical model for seismic deformations of anchored sheetpile bulkheads.” *Soil Dynamics and Earthquake Engineering*, 116, 192-204.
37. Tang, H., **Gong, W.\***, Li, C., Wang, L., and Juang, C.H. (2019). “A new framework for characterizing landslide deformation: A case study of the Yu-Kai highway landslide in Guizhou, China.” *Bulletin of Engineering Geology and the Environment*, 78(6),

4291-4309.

38. Tang, H., **Gong, W.\***, Wang, L., Juang, C.H., Martin II, J.R., and Li, C. (2019). "Multi-objective optimization-based design of stabilizing piles in earth slopes." *International Journal for Numerical and Analytical Methods in Geomechanics*, 43(7), 1516-1536.
39. Dong, J.J.\*, Tang, L., **Gong, W.**, Utili, S., and Crosta, G. (2019). "Mega engineering projects in challenging geological environments-A modern perspective." *Engineering Geology*, 262, 105308.
40. Chen, J.\*, Liu, H., Luo, L., Luo, D., and **Gong, W.** (2019). "Mismatch removal for remote sensing images based on non-rigid transformation and local geometrical constraint." *IEEE Access*, 7, 47451-47460.
41. Li, C., Fu, Z., Wang, Y., Tang, H.\*, Yan, J., **Gong, W.**, Yao, W., and Criss, R.E. (2019). "Susceptibility of reservoir-induced landslides and strategies for increasing the slope stability in the Three Gorges Reservoir Area: Zigui Basin as an example." *Engineering Geology*, 261, 105279.
42. **Gong, W.\***, Juang, C.H., Martin II, J.R., Tang, H., Wang, Q., and Huang, H.\* (2018). "Probabilistic analysis of tunnel longitudinal performance based upon conditional random field simulation of soil properties." *Tunnelling and Underground Space Technology*, 73, 1-14.
43. Juang, C.H., **Gong, W.\***, Martin II, J.R., and Chen, Q. (2018). "Model selection in geological and geotechnical engineering in the face of uncertainty-Does a complex model always outperform a simple model?" *Engineering Geology*, 242, 184-196.
44. Chen, G.\*, Zhu, J., Qiang, M., and **Gong, W.\*** (2018). "Three-dimensional site characterization with borehole data-A case study of Suzhou area." *Engineering Geology*, 234, 65-82.
45. Lu, S., Tang, H.\*, Zhang, Y., **Gong, W.**, and Wang, L. (2018). "Effects of the particle-size distribution on the micro and macro behavior of soils: fractal dimension as an indicator of the spatial variability of a slip zone in a landslide." *Bulletin of Engineering Geology and the Environment*, 77(2), 665-677.
46. **Gong, W.**, Juang, C.H.\*, and Martin II, J.R. (2017). "A new framework for probabilistic analysis of the performance of a supported excavation in clay considering spatial variability." *Géotechnique*, 67(6), 546-552.
47. **Gong, W.**, Tien, Y.M., Juang, C.H.\*, Martin II, J.R., and Luo, Z. (2017). "Optimization of site investigation program for improved statistical characterization of geotechnical property based on random field theory." *Bulletin of Engineering Geology and the Environment*, 76(3), 1021-1035.
48. **Gong, W.**, Huang, H., Juang, C.H.\*, and Wang, L. (2017). "Simplified-robust geotechnical design of soldier pile-anchor tieback shoring system for deep excavation." *Marine Georesources & Geotechnology*, 35(2), 157-169.
49. Juang, C.H., **Gong, W.\***, and Martin II, J.R. (2017). "Subdomain sampling methods-Efficient algorithm for estimating failure probability." *Structural Safety*, 66, 62-73.
50. Peng, X., Li, D.Q.\*, Cao, Z.J., **Gong, W.**, and Juang, C.H. (2017). "Reliability-based

- robust geotechnical design using Monte Carlo simulation.” *Bulletin of Engineering Geology and the Environment*, 76(3), 1217-1227.
51. **Gong, W.**, Juang, C.H.\*, and Martin II, J.R. (2016). “Numerical integration method for computing reliability index of geotechnical system.” *Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards*, 10(2), 109-120.
  52. **Gong, W.**, Juang, C.H.\*, Khoshnevisan, S., and Phoon, K.K. (2016). “R-LRFD: Load and resistance factor design considering robustness.” *Computers and Geotechnics*, 74, 74-87.
  53. **Gong, W.**, Juang, C.H.\*, Martin II, J.R., and Ching, J. (2016). “New sampling method and procedures for estimating failure probability.” *Journal of Engineering Mechanics*, 142(4), 04015107.
  54. **Gong, W.**, Tien, Y.M., Juang, C.H.\*, Martin II, J.R., and Zhang, J. (2016). “Calibration of empirical models considering model fidelity and model robustness-Focusing on predictions of liquefaction-induced settlements.” *Engineering Geology*, 203, 168-177.
  55. Xiao, J., **Gong, W.\***, Martin II, J.R., Shen, M., and Luo, Z. (2016). “Probabilistic seismic stability analysis of slope at a given site in a specified exposure time.” *Engineering Geology*, 212, 53-62.
  56. Shen, M., Chen, Q.\*, Zhang, J., **Gong, W.**, and Juang, C.H. (2016). “Predicting liquefaction probability based on shear wave velocity: An update.” *Bulletin of Engineering Geology and the Environment*, 75(3), 1199-1214.
  57. Xiao, J.H., Luo, Z.\*, Martin II, J.R., **Gong, W.**, and Wang, L. (2016). “Probabilistic geotechnical analysis of energy piles in granular soils.” *Engineering Geology*, 209, 119-127.
  58. Sert, S., Luo, Z.\*, Xiao, J., **Gong, W.**, and Juang, C.H. (2016). “Probabilistic analysis of responses of cantilever wall-supported excavations in sands considering vertical spatial variability.” *Computers and Geotechnics*, 75, 182-191.
  59. **Gong, W.**, Juang, C.H.\*, Huang, H., Zhang, J., and Luo, Z. (2015). “Improved analytical model for circumferential behavior of jointed shield tunnels considering the longitudinal differential settlement.” *Tunnelling and Underground Space Technology*, 45, 153-165.
  60. **Gong, W.**, Wang, L., Khoshnevisan, S., Juang, C.H.\*, Huang, H., and Zhang, J. (2015). “Robust geotechnical design of earth slopes using fuzzy sets.” *Journal of Geotechnical and Geoenvironmental Engineering*, 141(1), 04014084.
  61. **Gong, W.**, Huang, H., Juang, C.H.\*, Atamturktur, S., and Brownlow, A. (2015). “Improved shield tunnel design methodology incorporating design robustness.” *Canadian Geotechnical Journal*, 52(10), 1575-1591.
  62. Khoshnevisan, S., **Gong, W.\***, Juang, C.H., and Atamturktur, A. (2015). “Efficient robust geotechnical design of drilled shafts in clay using a spreadsheet.” *Journal of Geotechnical and Geoenvironmental Engineering*, 141(2), 04014092. (**Nomination for Best Paper Award (Middlebrooks Award)**)
  63. Khoshnevisan, S., Juang, C.H., Zhou, Y.G., and **Gong, W.\*** (2015). “Probabilistic assessment of liquefaction-induced lateral spreads using CPT-Focusing on the 2010-2011 Canterbury earthquake sequence.” *Engineering Geology*, 192, 113-128.
  64. Huang, H., **Gong, W.**, Khoshnevisan, S., Juang, C.H.\*, Zhang, D., and Wang, L. (2015). “Simplified procedure for finite element analysis of the longitudinal performance of

- shield tunnels considering spatial soil variability in longitudinal direction.” *Computers and Geotechnics*, 64, 132-145.
65. Luo, Z., Wang, L., **Gong, W.**, and Juang, C.H.\* (2015). “Probabilistic approaches for ultimate resistance of drilled shafts in sands considering spatial variability.” *Geotechnical Engineering*, 46(2), 102-110.
  66. **Gong, W.**, Luo, Z., Juang, C.H.\*, Huang, H., Zhang, J., and Wang, L. (2014). “Optimization of site exploration program for improved prediction of tunneling-induced ground settlement in clays.” *Computers and Geotechnics*, 56, 69-79.
  67. **Gong, W.**, Wang, L., Juang, C.H.\*, Zhang, J., and Huang, H. (2014). “Robust geotechnical design of shield-driven tunnels.” *Computers and Geotechnics*, 56, 191-201.
  68. **Gong, W.**, Khoshnevisan, S., and Juang, C.H.\* (2014). “Gradient-based design robustness measure for robust geotechnical design.” *Canadian Geotechnical Journal*, 51(11), 1331-1342.
  69. Khoshnevisan, S., **Gong, W.**, Wang, L., and Juang, C.H.\* (2014). “Robust design in geotechnical engineering—An update.” *Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards*, 8(4), 217-234. (**Nomination for Best Paper Award**)
  70. Wang, L., Juang, C.H.\*, Atamturktur, S., **Gong, W.**, Khoshnevisan, S., and Hsieh, H.S. (2014). “Optimization of design of supported excavations in multi-layer strata.” *Journal of GeoEngineering*, 9(1), 1-10. (**Excellent Paper Award**)
  71. Huang, H.\*, **Gong, W.**, Juang, C.H., and Zhang, J. (2014). “Robust geotechnical design of gravity retaining wall.” *Journal of Tongji University (natural science)*, 42(3), 377-385 (in Chinese).

### **BOOK CHAPTER OR JOURNAL SPECIAL ISSUE**

1. Reliability of Geotechnical Structures in ISO2394, edited by Phoon, K.K. and Retief, J.V., CRC Press (**co-author in one chapter**).
2. Dong, J.J., Tang, L., **Gong, W.**, Utili, S., and Crosta, G. (2019). *Mega Engineering Projects in Challenging Geological Environments - A Modern Perspective*, Engineering Geology (**guest editor for one journal special issue**).
3. Cui, P., Tapponnier, P., Zhang, L., He, M., Li, Z, and **Gong, W.** (2022). *Geohazards and Mitigation along the Sichuan-Tibet Railway*, Engineering Geology (**guest editor for one journal special issue**).

### **PRESENTATIONS AT INTERNATIONAL CONFERENCES AND SYMPOSIUMS**

1. “Geohazards and human settlements: Lessons learned from multiple relocation events in Badong,” in Badong International Geohazards Symposium (BIGS) 2021, Wuhan, China, December 2021, **Keynote Speech**.
2. “Geohazards and human settlements: Lessons learned from multiple relocation events in Badong, China - Engineering geologist’s perspective,” in the 13th Asian Regional Conference (ARC13) of International Association for Engineering Geology and the Environment (**IAEG**), Singapore, November 2021, **Theme Lecture**.



3. "UAV image-based landslide boundary and crack recognition in Dangchuan, China," in Machine Learning and Risk Assessment in Geoengineering 2021 (MLRA 2021), Wroclaw, Poland, October 2021, **Invited Lecture**.
4. "Probabilistic seismic deformation analysis of anchored sheetpile walls," in the 7th International Symposium on Geotechnical Safety and Risk (ISGSR 2019), Taipei, China, December 2019, **Oral Presentation**.
5. "UAV photogrammetry-based remote sensing and geohazards assessment of rockfalls in Guangzhou, China," in the 12th Asian Regional Conference (ARC12) of International Association for Engineering Geology and the Environment (IAEG), Jeju, Korea, September 2019, **Oral Presentation**.
6. "Probabilistic slope stability analysis with subdomain sampling method," in the 6th International Symposium on Reliability Engineering and Risk Management (ISRERM), Singapore, June 2018, **Oral Presentation**.
7. "Multi-objective optimization-based design of stabilizing piles," in GeoShanghai 2018 International Conference, May 2018, Shanghai, China, **Oral Presentation**.
8. "Site characterization in geotechnical engineering - Does a random field model always outperform a random variable model?" in Geo-Risk 2017/ISGSR 2017, Denver, USA, June 2017, **Oral Presentation**.
9. "Total failure probability of a slope at a given site in a seismic prone zone in a specified exposure time," in Geotechnical Frontiers 2017, Orlando, USA, March 2017, **Oral Presentation**.
10. "Numerical integration method for estimating failure probability," in the 6th Asian-Pacific Symposium on Structural Reliability and its Applications (APSSRA 6), Shanghai, China, May 2016, **Oral Presentation**.
11. "New approach for evaluating serviceability failure probability of earth-retaining system for deep excavation in spatially random field," in Geotechnical and Structural Engineering Congress 2016, Phoenix, USA, February 2016, **Oral Presentation**.
12. "An efficient method to compute the failure probability," in the 12th International Conference on Applications of Statistics and Probability in Civil Engineering (ICASP12), Vancouver, Canada, July 2015, **Oral Presentation**.
13. "R-LRFD: Robust load and resistance factor design method," in International Foundation Congress and Equipment Expo (IFCEE) 2015 International Conference (Analysis and Design), San Antonio, USA, March 2015, **Oral Presentation**.
14. "Robust geotechnical design of shield-driven tunnel using fuzzy sets," in GeoShanghai 2014 International Conference, Shanghai, China, May 2014, **Oral Presentation**.
15. "Robust design in geotechnical engineering," in Tongji-Cambridge-Rub-ACTUE Joint Seminar, Shanghai, China, May 2014, **Oral Presentation**.
16. "Optimization of the level of site exploration effort for improving the accuracy of tunneling-induced ground settlement prediction in soft clays," in Geo-Congress 2014 Conference, Atlanta, USA, March 2014, **Oral Presentation**.