

- Xiong, H. (2013). Determination of critical slip surface of fractured rock slopes based on fracture orientation data. *SCIENCE CHINA Technol Sci*, 56(5): 1248-1256. <http://doi.org/10.1007/s11431-012-5129-6>
- [11] Xu, Q., Chen, J.Y., Li, J., Yue, H.Y. (2014). A genetic algorithm for locating the multiscale critical slip surface in jointed rock mass slopes. *Mathematical Problems in Engineering*, (3): 1-10. <http://doi.org/10.1155/2014/543081>
- [12] Priest, S.D. (1993). *Discontinuity Analysis for Rock Engineering*. Chapman and Hall, London. [http://doi.org/10.1016/0926-9851\(93\)90044-y](http://doi.org/10.1016/0926-9851(93)90044-y)
- [13] Chen, J.P., Xiao, S.F., Wang, Q. (1995). *Three dimensional network modeling of stochastic fractures*. Northeast norm University Press, Changchun.
- [14] Kulatilake, P.H.S.W., Wu, T.H. (1984). Sampling bias on orientation of discontinuities. *Rock Mechanics and Rock Engineering*, 17: 243-253. <http://doi.org/10.1007/bf01032337>
- [15] Kemeny, J., Post, R. (2003). Estimating three-dimensional rock discontinuity orientation from digital images of fracture traces. *Comput Geosci*, 29: 65-77. [http://doi.org/10.1016/s0098-3004\(02\)00106-1](http://doi.org/10.1016/s0098-3004(02)00106-1)
- [16] Riquelme, A.J., Abellan, A., Tomas, R., Jaboyedoff, M. (2014). A new approach for semiautomatic rock mass joints recognition from 3D point clouds. *Comput Geosci*, 68: 38-52. <http://doi.org/10.1016/j.cageo.2014.03.014>
- [17] Mauldon, M. (1998). Estimating the mean fracture trace length and density from observations in convex windows. *Rock Mechanics and Rock Engineering*, 31(4): 201-216. <http://doi.org/10.1007/s006030050021>
- [18] Mauldon, M., Dunne, W.M., Rohrbaugh, M.B. (2001). Circular scanlines and circular windows: new tools for characterizing the geometry of fracture traces. *Journal of Structural Geology*, 23(2-3): 247-258. [http://doi.org/10.1016/s0191-8141\(00\)00094-8](http://doi.org/10.1016/s0191-8141(00)00094-8)
- [19] Zhang, Q., Wang, Q., Chen, J.P., Li, Y.Y., Ruan, Y.K. (2016). Estimation of mean trace length by setting scanlines in rectangular sampling window. *International Journal of Rock Mechanics and Mining Sciences*, 84: 74-79. <http://doi.org/10.1016/j.ijrmms.2016.02.002>
- [20] Priest, S.D., Hudson, J.A. (1976). Discontinuity spacing in rock. *Int J Rock Mech Min Sci Geomech Abstr*, 13: 135-148. [http://doi.org/10.1016/0148-9062\(76\)90818-4](http://doi.org/10.1016/0148-9062(76)90818-4)
- [21] Oda, M. (1982). Fabric tensor for discontinuous geological materials. *Soil Found*, 22: 96-108.
- [22] Zhang, W., Chen, J.P., Yuan, X.Q., Xu, P.H., Zhang, C. (2013). Analysis of REV size based on three-dimensional fracture numerical network modelling and stochastic mathematics. *Quarterly Journal of Engineering Geology and Hydrogeology*, 46: 31-40. <http://doi.org/10.1144/qjegh2011-045>
- [23] Brideau, M., Yan, M., Stead, D. (2009). The role of tectonic damage and brittle rock fracture in the development of large rock slope failures. *Geomorphology*, 103: 30-49. <http://doi.org/10.1016/j.geomorph.2008.04.010>
- [24] Qiu, X.P., Wang, L.J. (2019). Research on Shortest Path Optimization Based on Floyd Algorithm. *Journal of Taiyuan Normal University (Natural Science Edition)*, 18(2): 53-56.
- [25] Park, H.J. (2005). A new approach for persistence in probabilistic rock slope stability analysis. *Geosciences Journal*, 9: 287-293. <http://doi.org/10.1007/bf02910589>
- [26] Kemeny, J. (2005). Time-dependent drift degradation due to the progressive failure of rock bridges along discontinuities. *International Journal of Rock Mechanics and Mining Sciences*, 42: 35-46. <http://doi.org/10.1016/j.ijrmms.2004.07.001>
- [27] Hencher, S., Richards, L.R. (2014). Assessing the shear strength of rock discontinuities at laboratory and field scales. *Rock Mechanics and Rock Engineering*, 48(3): 883-905. <http://doi.org/10.1007/s00603-014-0633-6>
- [28] Tuckey, Z., Stead, D. (2016). Improvements to field and remote sensing methods for mapping discontinuity persistence and intact rock bridges in rock slopes. *Engineering Geology*, 208: 136-153. <http://doi.org/10.1016/j.enggeo.2016.05.001>
- [29] ISRM (International Society for Rock Mechanics). (1978). Suggested methods for the quantitative description of discontinuities in rock masses. *International Journal of Rock Mechanics and Mining Sciences & Geomechanics Abstract*, 15: 319-368. [http://doi.org/10.1016/0148-9062\(79\)91476-1](http://doi.org/10.1016/0148-9062(79)91476-1)
- [30] Chen, J.P., Lu, B., Gu, X.M., Fan, J.H. (2005). Determining 3D persistence of rock mass discontinuity by projection. *Chinese Journal of Rock Mechanics and Engineering*, 24(15): 2617-2621. [http://doi.org/1000-6915\(2005\)-2617-05](http://doi.org/1000-6915(2005)-2617-05)
- [31] Lu, B., Chen, J.P., Shi, B.F. (2004). Application of genetic algorithm to the determination of 3D persistence of jointed rock mass. *Chinese Journal of Rock Mechanics and Engineering*, 23(20): 3470-3474. [http://doi.org/1000-6915\(2004\)20-3470-05](http://doi.org/1000-6915(2004)20-3470-05)