

Publications

Journal Publications

1. **Yadav A.**, Behera B., Singh G.S.P and Sharma S.K. (2024) Numerical modelling of post-failure behaviors of coal specimens. *Journal of Rock Mechanics and Geotechnical Engineering*, 16; 514-531. (SCI, Impact Factor: 9.40, Q1)
2. **Yadav A.**, Singh G.S.P and Behera B., (2023) A machine learning model for evaluation of chain pillar stability in deep longwall workings in India. *Mining, Metallurgy and Exploration*, 40, 2119-37. (SCIE, Impact Factor: 1.50, Q2)
3. Behera B., **Yadav A.**, Singh G.S.P and Sharma S.K. (2021) Assessment of excavation damage and spalling potential at a mechanized longwall face: a numerical modelling study. *Geomechanics and Geophysics for Geo-energy and Geo-resources*, 7, 104; 1-40. (SCIE, Impact Factor: 3.90, Q1)
4. **Yadav A.**, Behera B., Sahoo S.K., Singh G.S.P and Sharma S.K. (2020) An approach for numerical modelling of gob compaction process in longwall mining. *Mining, Metallurgy and Exploration*, 37, 631-649. (SCIE, Impact Factor: 1.50, Q2)
5. Behera B., **Yadav A.**, Singh G.S.P and Sharma S.K. (2020) Numerical modelling study of the geo-mechanical response of strata in longwall operations with particular reference to Indian geo-mining conditions. *Rock Mechanics and Rock Engineering*, 53; 1827-56. (SCI, Impact Factor: 5.50, Q1)
6. Behera B., **Yadav A.**, Singh G.S.P and Sharma S.K. (2020) A numerical modelling approach for evaluation of spalling associated face instability in longwall workings under massive sandstone roof. *Engineering Failure Analysis*, 117, 104927. (SCI, Impact Factor: 4.40, Q1)
7. **Yadav A.**, Behera B., Sahoo S.K., Singh G.S.P and Sharma S.K. (2020) Numerical analysis of the gob stress distribution using a modified elastic model as the gob constitutive model. *J. Inst. Engg. Ser D*, 101, 127-139. (Scopus, Q3)
8. Behera B., **Yadav A.**, Singh G.S.P and Sharma S.K. (2020) Design of an optimum longwall face for improved ground control: a Review. *J. Inst. Engg. Ser D*, 101, 151-164. (Scopus, Q3)
9. Sahoo S.K., Behera B., **Yadav A.**, Singh G.S.P. and Sharma S.K. (2020) Plain-strain modeling of progressive goaf compaction in a depillaring working. *J. Inst. Engg. Ser D*, 101, 233-245. (Scopus, Q3)

Conference Papers

10. **A. Yadav**, B. Behera, S.K. Sahoo, G.S.P. Singh and S.K. Sharma (2020) Performance evaluation of potential constitutive models for simulation of longwall goaf compaction using modulus updating technique. *Recent practices and advancement in mineral industry*, VNIT, Nagpur, 21-22 February, 2020.
11. S.K. Prajapati, **A. Yadav**, B. Behera, S.K. Sahoo, G.S.P. Singh and S.K. Sharma (2020) An innovative methodology for improved simulation of goaf compaction in longwall workings using FLAC3D. *Fifth International Itasca Symposium*, February 17-20, Vienna, Austria, 2020
12. **A. Yadav**, G.S.P. Singh, and U.K. Singh (2016) Assessment of chain pillar stability in complex longwall workings. *Indorock*, IIT Bombay, Mumbai, June 17-18, 2016