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innovative underground technology and engineering for sustainable development geotechnologies and related science and engineering fields make it possible to use underground space to support livable resilient and sustainable cities mines are increasingly adopting the backfill mining method because of its advantages in sustainability and safety integrating filling technology with intelligent methods will undoubtedly emerge as a critical technology for underground mining in hard rock mines tunnelling and underground space technology incorporating trenchless technology research is an international journal which publishes authoritative articles encompassing original research and case studies on the development of tunnelling technology the use of underground space underground view full aims scope 3560 article publishing charge the nrc convened a panel including researchers and practitioners with expertise in geotechnical engineering underground design and construction trenchless technologies risk assessment visualization techniques for geotechnical applications sustainable infrastructure development lifecycle assessment infrastructure policy and planning and fayun liang haofen wang xiong bill yu 352 accesses explore all metrics abstract underground infrastructure plays a kind of crucial role in modern production and living especially in big cities where the ground space has been fully utilized exploring the massive potential for innovative underground construction technologies in the us aug 1 2023 patrick lane nott director of engineering at hypertunnel the us underground construction industry is booming to overcome the many challenges of operating in flooded mines the robots designed as part of unexmin will employ components such as acoustic cameras sonar sound navigation and ranging this special issue welcomes investigations into underground space design interactions between geotechnical media and underground structures novel construction approaches advanced monitoring equipment and waterproof methods retaining support technologies lessons learned from high quality case histories and topics relevant to underground i this richly illustrated reference guide presents innovative techniques focused on reducing time cost and risk in the construction and maintenance of underground facilities a primary focus of the technological development in underground engineering is to ease the practical execution and to reduce time cost and risk in the construction and maintenance of underground facilities are in operation in underground laboratories for radio purity assay ultra low temperature detectors quantum computing radon suppression and mitigation advanced machining and next generation gravitational wave detectors therefore this special issue would like to collect contributions aiming to existing underground positioning and navigation technology is described and the performances of different methods based on this technology analysed and compared the combination types and submit information on current or new damage prevention technology submit technology information deep underground science and engineering research article open access additive manufacturing technology in mining engineering research xiaowei feng valter carvelli first published 07 september 2022 doi org 10 1002 dug2 12014 citations 1 tools abstract this volume presents the latest technological innovations in underground design construction and operation and comprehensively discusses developments in ground improvement simulation process integration safety monitoring environmental impact equipment boring and cutting personnel training materials robotics and more precise application of grouting technology in underground coal mining water inrush risk of floor elimination research article published 07 november 2022 volume 30 pages 24361 24376 2023 cite this article download pdf minglei zhai haibo bai 371 accesses 2 citations explore all metrics abstract existing underground positioning and navigation technology is described and the performances of different methods based on this technology analysed and compared the combination types and by lim tin seng jurong rock caverns hailed as singapore's deepest underground project is located 150 m below jurong island courtesy of jtc gleaming skyscrapers are a common sight in singapore's city centre as the country attempts to overcome the limitations of space by reaching skywards two advance technologies are presented that can improve the adverse environmental effect of underground mine visible light communication vlc technology is incorporated to estimate the location of miners inside the mine the distribution of

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