1. Record Nr. UNINA9910983325203321

Autore	Jose Babu T
Titolo	Proceedings of the Indian Geotechnical Conference 2022 Volume 10 : Geotechnics: Learning, Evaluation, Analysis and Practice (GEOLEAP) / / edited by Babu T. Jose, Dipak Kumar Sahoo, Sai K. Vanapalli, Chandresh H. Solanki, K. Balan, Anitha G. Pillai
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819761722 9819761727
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (368 pages)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 538
Altri autori (Persone)	SahooDipak Kumar VanapalliSai K SolankiChandresh H BalanKe PillaiAnitha G
Disciplina	624.15
Soggetti	Engineering geology Building materials Geotechnical engineering Geoengineering Building Materials Geotechnical Engineering and Applied Earth Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Settlement of Existing Structure Due to Construction of aTunnel in Layered Soil -- Prediction of Hydraulic Conductivity Function Parameters of Slurries Using Hybrid Metaheuristics Approach -- Numerical Simulation of Triaxial Test to Study the Effect of Reinforcement in Enhancing the Shear Behaviour of Black Cotton Soil -- A Numerical Study on Rate-induced Strength Enhancement in Sand -- Dynamic Response Analysis of Ash Dyke and Evaluation of Different Construction Methods -- Analysis of Piles in Liquefied and Non-liquefied Sands due to Earthquake Vibrations Using Opensees -- Application of Genetic Programming in the Field of Geotechnical

Engineering - A Review -- Effect of Sample Preparation Technique on Strain Localisation of Dense Sand under Biaxial Test Condition -- Application of Machine Learning in Prediction of Load Settlement Behavior of Piles Based on CPT Data -- Numerical Study of Granular Anchor Pile Subjected to Uplift Load -- Numerical Study on Sheet Pile Walls as Landslide Barrier -- Comparative Analysis of Settlement and Efficiencies of Pile Groups with Different Configurations using FEM -- Prediction of California Bearing Ratio (CBR) of Soils using AI-based Techniques -- Estimation of Heavy Compaction Parameters using Light Compaction Parameters of Granular Soil -- Comparative Study of Analytical and Numerical Modelling of Bearing Pressure of Shallow Foundation.

Sommario/riassunto

This book comprises the select proceedings of the Indian Geotechnical Conference (IGC) 2022. The contents focus on recent developments in geotechnical engineering for a sustainable world. The book covers behaviour of soils and soil–structure interaction, soil stabilization, ground improvement, and land reclamation, shallow and deep foundations, geotechnical, geological and geophysical investigation, rock engineering, tunnelling, and underground structures, slope stability, landslides and liquefaction, earth retaining structures and deep Excavations, geosynthetics engineering, geo-environmental engineering, sustainable geotechnics, and landfill design, geo-hydrology, dam and embankment engineering, earthquake geotechnical engineering, transportation geotechnics, forensic geotechnical engineering and retrofitting of geotechnical structures, offshore geotechnics, marine geology, and subsea site investigation, computational, analytical and numerical modelling, and reliability in geotechnical engineering. The contents of this book will be useful to researchers and professionals alike.