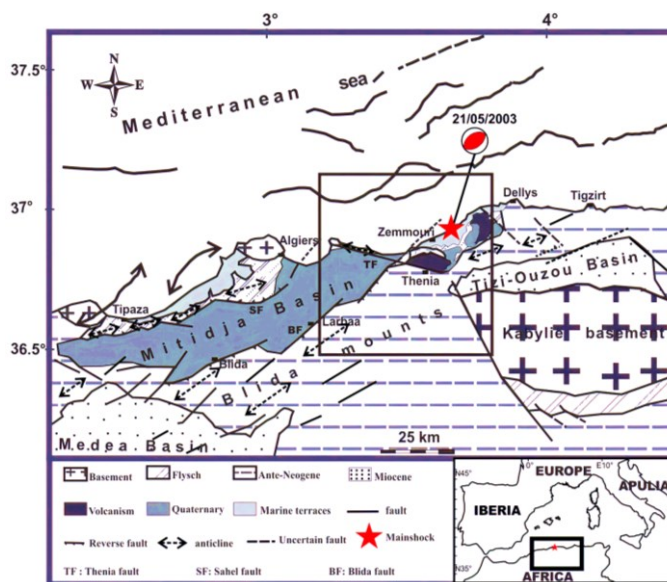
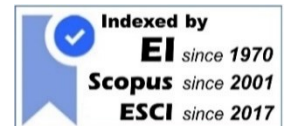


GEOTECHNICAL ENGINEERING

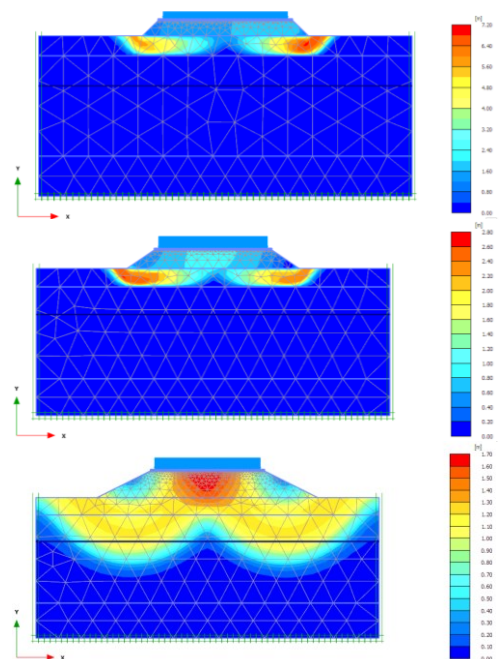
Journal of the



Sponsored by



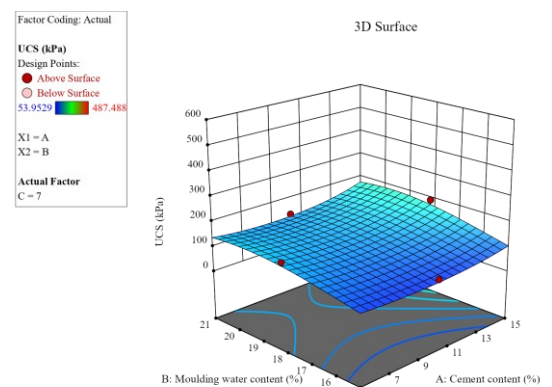
Comparative Analysis of Simplified and Finite Element Method Approaches for Seismic Forces in Circular Tunnels, after Achouri and Amrane (2024)



Stability Analysis of Embankment using Finite Element Method Constructed over Treated Soil with Anionic Polyacrylamide, after Mase et al. (2024)



Advancing Tunnel Boring Machine Performance Prediction in Massive and Highly Fractured Granite: Integrating Innovative Deep Learning and Block Model Techniques, after Monthanopparat and Tanchaisawat (2024)



Analysis and Optimisation of Influencing Factors on the Performance of Cement Stabilised Marine Clay Using Response Surface Methodology, after Rejin et al. (2024)

GEOTECHNICAL ENGINEERING

EDITOR-IN-CHIEF

Dr. Kuo Chieh Chao
Asian Institute of Technology
Thailand

ASSOCIATE EDITOR

Dr. Erwin Oh
Griffith University
Australia

EDITORIAL ADVISERS

Prof. A. S. Balasubramaniam (Australia)

Prof. Kwet Yew Yong (Singapore)

Dr. Andy Y. F. Leung (Hong Kong)

Prof. Widjojo A. Prakoso (Indonesia)

Mr. Junichi Yamazaki (Japan)

Ir. Liew Shaw Shong (Malaysia)

Prof. Mary Ann Q. Adajar (Philippines)

Prof. Chun Fai Leung (Singapore)

Dr. Chung Tien Chin (Taiwan)

Prof. Chih-Wei Lu (Taiwan)

Prof. Noppadol Phienwej (Thailand)

Prof. Suttisak Soralump (Thailand)

Dr. Duc Long Phung (Vietnam)

GEOTECHNICAL ENGINEERING

TABLE OF CONTENTS

List of Papers	Page
1. Comparative Analysis of Simplified and Finite Element Method Approaches for Seismic Forces in Circular Tunnels <i>By A. Achouri and M. N. Amrane</i>	1-16
2. Stability Analysis of Embankment using Finite Element Method Constructed over Treated Soil with Anionic Polyacrylamide <i>By L. Z. Mase, D. Amalia, and A. Dewi</i>	17-25
3. Advancing Tunnel Boring Machine Performance Prediction in Massive and Highly Fractured Granite: Integrating Innovative Deep Learning and Block Model Techniques <i>By N. Monthanopparat and T. Tanchaisawat</i>	24-34
4. Ground Improvement of Mongla Container Yard in Bangladesh <i>By M. Sadiq, M. Rokonzaman, F. Mahmud, and M. H. Tareq</i>	35-44
5. Analysis and Optimisation of Influencing Factors on the Performance of Cement Stabilised Marine Clay Using Response Surface Methodology <i>By Rejin R. P., Vandana S., and Abdul N. K. P.</i>	45-52
6. Prediction of Stone Column Bearing Capacity Using Artificial Neural Network Model (ANNs) <i>By M. Gaber and J. M. A. Alsharef</i>	53-59
7. The Failure of Road Embankment Along the Canal During Driven Piles Construction in Thickness of Soft Sensitive Clay <i>By S. Chaipayut, T. Suksawat, J. Wongkumchun, J. Ayawanna, and T. Kongsomboon</i>	60-67

Cover Photographs

1. Comparative Analysis of Simplified and Finite Element Method Approaches for Seismic Forces in Circular Tunnels
By A. Achouri and M. N. Amrane
2. Stability Analysis of Embankment using Finite Element Method Constructed over Treated Soil with Anionic Polyacrylamide
By L. Z. Mase, D. Amalia, and A. Dewi
3. Advancing Tunnel Boring Machine Performance Prediction in Massive and Highly Fractured Granite: Integrating Innovative Deep Learning and Block Model Techniques
By N. Monthanopparat and T. Tanchaisawat
4. Analysis and Optimisation of Influencing Factors on the Performance of Cement Stabilised Marine Clay Using Response Surface Methodology
By Rejin R. P., Vandana S., and Abdul N. K. P.