

# INTERNATIONAL JOURNAL OF GEOTECHNICAL EARTHQUAKE ENGINEERING

January-June 2013, Vol. 4, No. 1

## Table of Contents

### RESEARCH ARTICLES

- 1 **Sliding Stability of Retaining Wall Supporting  $c-\Phi$  Backfill under Pseudo-Statically Seismic Active Load**  
*Sima Ghosh, Department of Civil Engineering, National Institute of Technology, Agartala, India*
- 17 **Liquefaction Hazard Mapping of Lucknow: A Part of Indo-Gangetic Basin (IGB)**  
*Abhishek Kumar, Department of Civil Engineering, Indian Institute of Science, Bangalore, India*  
*P. Anbazhagan, Department of Civil Engineering, Indian Institute of Science, Bangalore, India*  
*T. G. Sitharam, Department of Civil Engineering, Indian Institute of Science, Bangalore, India*
- 42 **SPT-Based Probabilistic Method for Evaluation of Liquefaction Potential of Soil using Multi-Gene Genetic Programming**  
*Pradyut Kumar Muduli, Department of Civil Engineering, National Institute of Technology, Rourkela, Odisha, India*  
*Sarat Kumar Das, Department of Civil Engineering, National Institute of Technology, Rourkela, Odisha, India*
- 61 **Numerical Modeling of Buried Pipe under Wheel Loads Using FLAC 3D**  
*Hamed Niroumand, Department of Geotechnical Engineering, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Skudai, Malaysia*  
*Khairul Anuar Kassim, Department of Geotechnical Engineering, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Skudai, Malaysia*  
*Behnam Adhami, Department of Civil Engineering, Faculty of Engineering, Central Tehran Branch, Islamic Azad University, Tehran, Iran*
- 68 **Dynamic Analysis of Homogenize Earthen Dam Using Blanket Layer Technique**  
*Behrouz Gordan, Department of Geotechnic & Transportation, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Skudai, Johor, Malaysia*  
*Azlan Bin Adnan, Earthquake Department, Universiti Teknologi Malaysia, Skudai, Johor, Malaysia*
- 83 **Seismic Ground Response Analysis of Some Typical Sites of Guwahati City**  
*Shiv Shankar Kumar, Department of Civil Engineering, Indian Institute of Technology Guwahati, Guwahati, Assam, India*  
*A. Murali Krishna, Department of Civil Engineering, Indian Institute of Technology Guwahati, Guwahati, Assam, India*

### Copyright

The **International Journal of Geotechnical Earthquake Engineering (IJGEE)** (ISSN 1947-8488; eISSN 1947-8496), Copyright © 2013 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global