Springer Link
Search Q 🦃

Log in

 \rightarrow

EUR 245.03

EUR 299.99

Price includes VAT (India)

Access via your institution

• ISBN: 978-981-19-4055-2

Instant PDF download

Readable on all devices

Exclusive offer for individuals only

Learn about institutional subscriptions

• Tax calculation will be finalised during checkout

Buy eBook

Own it forever

> Hardcover Book

∨ eBook



<u>Home</u> > Conference proceedings

Presents the select proceedings of International Conference on Recent Advancements in Civil Engineering

Provides the recent advances in civil engineering

Is useful for researchers and professionals working in the area of civil engineering and allied fields

Part of the book series: Lecture Notes in Civil Engineering (LNCE, volume 274)

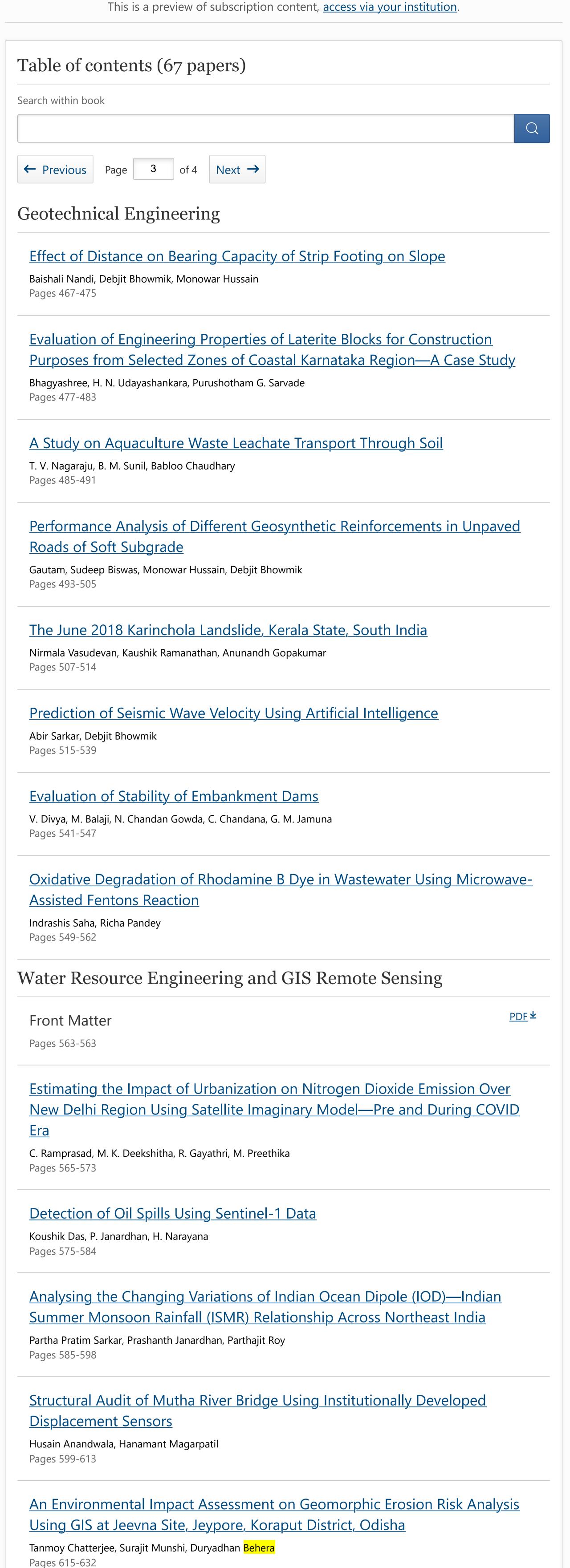
9392 Accesses 1 Citations

Sections

Editors: Arjun Sil, Denise-Penelope N. Kontoni, Rathish Kumar Pancharathi

Sections

Table of contents
About this book
Keywords
Editors and Affiliations
About the editors
Bibliographic Information



Stability Analysis of Gravity Dam Using Finite Element Method and Particle
Swarm Optimization
Mrunalini A. Deshmukh, Rajendra B. Magar
Pages 633-648

Hydrodynamic Analysis of a Fixed Offshore Wind Tower Using ANSYS Aqwa
Neethu Ann Paul, Anitha Joseph
Pages 649-674

Study on Variability of Influent Characteristics Concentrations of CETP

Modeling Glacio-Hydrologic Processes of Beas Within a Distributed, Water and Energy Balance-Based Hydrology Model

Tanmoyee Bhattacharya, Deepak Khare, Manohar Arora
Pages 685-706

Chinmay Deore, Rohini More, Sameer Shastri
Pages 707-715

Effect of Shear Connectors in the Deformability of Circular Plated Joints in
Single Layered Lattice Structure

Effect of Seasonal Changes on Water Quality of River Mutha

Pages 717-729

← Previous Page 3 of 4 Next →

This book presents the select proceedings of International Conference on Recent Advancements in

geotechnology, hydraulic and hydro-power engineering, road & bridge engineering, and sustainable

transportation infrastructures. This book will be useful for researchers and professionals working in

Civil Engineering (ICRACE) 2021. Various topics covered include theory and advanced technology of engineering structure, high-rise structure and large-span, structure, bridge and tunnel engineering, advanced concrete technology, durable structures, building energy conservation and green architecture, disaster management, smart structures and materials, soil and rock mechanics,

the area of civil engineering and allied fields.

Shanthi P. Selvam, V. M. Topkar

Sajith, Raghavan Ramalingam

Back to top 1

Back to top ↑

Keywords

Back to top 1

Editors and Affiliations

Denise-Penelope N. Kontoni

Warangal, Warangal, India

Rathish Kumar Pancharathi

About the editors

About this book

Pages 675-684

High-rise Structure and Large-span Structure

Advanced Concrete Technology

Disaster Management

Smart-Structures and Materials

Soil Behavior and Characterisation of Ground

Transportation Engineering

ICRACE 2021

Silchar, India
Arjun Sil

Department of Civil Engineering, University of the Peloponnese, Patras,

Greece

Department of Civil Engineering, National Institute of Technology Silchar,

Back to top ↑

Department of Civil Engineering, National Institute of Technology

Institute of Science and Technology (NERIST), India; M.Tech. from National Institute of Technology (NIT) Silchar; and Ph.D. from Indian Institute of Science (IISc), Bangalore, India. His specific areas of research are interdisciplinary such as earthquake engineering including structural engineering, geotechnical earthquake engineering, seismology, seismic hazard, site response, microzonation, risk evaluation, solid mechanics, condition assessment and health monitoring of structures, reliability and

probability, monte carlo simulation, space hazards, Covid-19, GIS and remote sensing, corrosion

modelling, chloride, wind, and landslide hazard assessment. He has published so far more than 59

research articles [http://www.nits.ac.in/departments/civil/civil.php] in highly reputed international

journals (SCI, Scopus), 12 papers in conferences and one granted patent. He has so far guided 34

M.Tech. scholars, Ph.D. scholars (03 defended, 03 submitted). Currently several Ph.D. and M.Tech.

such as Natural Hazards Review (ASCE), Journal of Geomatics, Natural hazards and Risk (Taylor &

Technology (Taylor and Francies). He has received several prestigious awards such as Outstanding

Structural Engineer of the Year Award-2020, Conferred by the Governing Council of "Indian

scholars are working under him in various domains. He is a reviewer of various prestigious journals

Francis), Journal of Earthquake Engineering (Taylor & Francis), and Corrosion Engineering Science and

Dr. Arjun Sil is currently an Associate Professor and Head of the Department of Civil Engineering,

National Institute of Technology Silchar, India. He obtained his B.Tech. from North Eastern Regional

Association of Structural Engineers (IAStructE)", New Delhi, India, for the overall contribution of Civil Engineering. He is acting as "Research Advisor" of Nanyang Academy of Sciences (Singapore), received IGS-Sardar Resham Singh Memorial Award-2015, conferred by Indian Geotechnical Society (IGS), New Delhi. His Ph.D. thesis was nominated as one of the best thesis for "institute MEDAL" in IISc, Bangalore from Civil Engineering Department during 2014–2015. Dr. Denise-Penelope N. Kontoni obtained her Diploma in Civil Engineering from the University of Patras, Greece (grade: excellent, ranked 1st), and her Ph.D. (doctor of civil engineering) in structural engineering also from the University of Patras, Greece. She is currently an Associate Professor in the Department of Civil Engineering of the University of the Peloponnese, Greece. She has also been teaching for 19 years in postgraduate programs of the Hellenic Open University, Greece, and she has supervised many M.Sc. theses in the postgraduate programs such as "Earthquake Engineering and Earthquake Resistant Structures", "Engineering Construction Management", etc. She is the author of 120 scientific articles in refereed international scientific journals and in proceedings of international conferences, which have received many citations from other researchers. She is a reviewer in many international scientific journals (e.g., "Certificate of outstanding contribution in reviewing" from "Engineering Structures"-Elsevier). She is editor and guest editor in refereed international scientific journals and has been a member of the scientific committee in many international conferences. Her research interests are focused on structural dynamics, earthquake engineering, finite element method (FEM), boundary element method (BEM), soil-structure interaction, vibration control, computer-aided structural analysis, wave propagation, elastodynamics, elastoplasticity, computer programming in civil engineering, etc. Dr. Rathish Kumar Pancharathi is currently a Professor and Head of the Department of Civil Engineering, National Institute of Technology Warangal. He obtained his Ph.D. from the NIT Warangal and Doctor of Engineering and postdoctoral research from Japan. His major areas of interest include

new/alternate/supplementary cementitious materials, special concretes, rehabilitation of structures, construction technology and management, structural health monitoring, earthquake engineering and sustainable materials and technologies. He has published 226 technical articles in various international and national journals and conferences of repute. He has contributed 15 book chapters and authored 2 books. He has two patents granted to his credit. He has guided 8 doctoral students and 12 students are presently working with him. He has guided 68 Master's students and 37 Bachelor's student batches. He is a recipient of several awards including Aftab Mufti Medal, Monbusho and JSPS Scholarships of the Japanese Government, Best Engineering Researcher Award, Heritage Scholarship to pursue research at IST Portugal, Danish Government Scholarship, Italy Government Post-Doctoral Scholarship, Heritage Scholarship under Erasmus Mundus, AIT Fellowship, ASEM-Duo India Fellowship, Slovakian Government Scholarship, Jawaharlal Nehru memorial fellowship, Earth leader award and Distinguished Alumnus award. Prof. Kumar is a member of the Research Advisory Council member of the National Council for Cement and Building Materials (NCCBM), Hyderabad, for the past six years. He represents several Bureau of Indian Standard (BIS) committees like CED-4 i.e., Lime and Gypsum Products of the BIS, Preparation of Handbook of lime for the BIS, Convenor for revision of all parts of Indian Standard Code IS 2542-1978 including tests for Gypsum, Plaster, Concrete and Mortars, Member of Revision of Indian Standard Code IS 712:1984 i.e., specification for building limes. He is on the IRC B8 Committee of Inspection, Maintenance and Rehabilitation of Bridges. He is on the editorial board of Journal of Facta Universtatis, Journal of Cement Wapno Beton among others and is a reviewer of several International Journals published by

Elsevier, Thomas Telford, Taylor and Francis etc.

Back to top

Bibliographic Information

Book Title

Recent Trends in Civil
Engineering

Book Subtitle
Select Proceedings of ICRACE
Engineering

Civil
Select Proceedings of ICRACE
Engineering

Recent Trends in Civil
Engineering

Select Proceedings of ICRACE
Engineering

Copyright Information

Arjun Sil, Denise-Penelope
Kontoni, Rathish Kumar
Pancharathi

Publisher
Springer Singapore

Hardcover ISBN

Engineering, Engineering (R0)

The Editor(s) (if applicable) and 78-981-19-4054-5

The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd. 2023

Softcover ISBN

978-981-19-4057-6

978-981-19-4055-2

Due: 18 October 2023

Published: 03 October 2022

Due: 18 October 2023

Published: 03 October 2022

Series E-ISSN

2366-2565

Rumber of Illustrations

126 b/w illustrations, 466
illustrations in colour

Published: 03 October 2022

Number of Pages

XVII, 874

Number of Illustrations, 466
illustrations in colour

Design, Geoengineering,

Hydraulic Engineering

Back to top ↑

Over 10 million scientific documents at your fingertips

© 2023 Springer Nature Switzerland AG. Part of Springer Nature.

Academic Edition | Corporate Edition