



PROCEEDINGS OF THE 7th WORLD CONGRESS ON CIVIL, STRUCTURAL, AND ENVIRONMENTAL ENGINEERING (CSEE'22)

APRIL 10 - 12, 2022 | ~~LISBON, PORTUGAL~~ | VIRTUAL CONFERENCE

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WELCOME MESSAGE FROM THE CONFERENCE CHAIR

On behalf of the International Academy of Science, Engineering and Technology (International ASET Inc.), the organizing committee would like to welcome you to the 7th World Congress on Civil, Structural, and Environmental Engineering (CSEE'22).

CSEE is aimed to become one of the leading international annual congresses in the fields of civil, structural, and environmental engineering. This congress will provide excellent opportunities to scientists, researchers, industrial experts, and university students to present their research achievements and to develop new collaborations and partnerships with experts in the field.

While each conference consists of an individual and separate theme, the 3 conferences share considerable overlap, which prompted the organization of this congress. The goal of this undertaking is to bring together experts in each of the specialized fields, and at the same time allow for cross pollinations and sharing of ideas from the other closely related research areas.

We thank you for your participation and contribution to the 7th World Congress on Civil, Structural, and Environmental Engineering (CSEE'22). We wish you a very successful and enjoyable experience.

Dr. Hany El Naggar

*Congress Chair and Proceedings Editor
CSEE'22*

Dr. Joaquim Barros

*Congress Co-Chair and Proceedings Editor
CSEE'22*

Dr. Paulo Cachim

*Congress local Committee Member
CSEE'22*

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ABOUT CSEE'21

CSEE is aimed to become one of the leading international annual congresses in the fields of civil, structural, and environmental engineering. This congress will provide excellent opportunities to the scientists, researchers, industrial engineers, and university students to present their research achievements and to develop new collaborations and partnerships with experts in the field.

There are 3 conferences included in the CSEE Congress:

[ICGRE'22](#) - 7th International Conference on Geotechnical Research and Engineering

[ICSECT'22](#) - 7th International conference on Structural Engineering and Concrete Technology

[ICEPTP'22](#) - 7th International Conference on Environmental Pollution, Treatment and Protection

While each conference consists of an individual and separate theme, the 3 conferences share considerable overlap, which prompted the organization of this congress. The goal of this undertaking is to bring together experts in each of the specialized fields, and at the same time allow for cross pollinations and sharing of ideas from the other closely related research areas.

CSEE is an acronym for **C**ivil, **S**tructural, and **E**nvironmental Engineering.

The proceedings is published in Ottawa, Canada.

All papers were peer-reviewed

The congress proceedings is published under an ISSN and ISBN number

Each paper is assigned a unique DOI number by [Crossref](#)

The conference proceedings is indexed by [Scopus](#) and [Google Scholar](#)

The proceedings is permanently archived in [Portico](#) (one of the largest community-supported digital archives in the world)

Google Scholar

Scopus

Crossref

PORTICO

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SCIENTIFIC COMMITTEE

We would like to thank the following for accepting to act as a member of the Scientific Committee for the CSEE'22 Congress:

Scientific Committee Members for ICGRE'22

- **Dr. Tarek Abdoun**, Rensselaer Polytechnic Institute, USA
- **Dr. Richard J. Bathurst**, Royal Military College of Canada, Canada
- **Dr. Johan Clausen**, Aalborg University, Denmark
- **Dr. Susanga Costa**, Deakin University, Australia
- **Dr. Johann Facciorusso**, University of Florence, Italy
- **Dr. Ahmed Fahmy**, 30 Forensic Engineering, Canada
- **Dr. DANTE FRATTA**, University of Wisconsin-Madison, USA
- **Dr. Rajeshwar Goodary**, Université des Mascareignes, Mauritius
- **Dr. Russell A. Green**, Virginia Tech, USA
- **Dr. Marte Gutierrez**, Colorado School of Mines, UK
- **Dr. Ian Jefferson**, University of Birmingham, UK
- **Dr. Stefan Jung**, Ingenieure GmbH Geotechnik und Umwelt, Germany
- **Dr. Victor Kaliakin**, University of Delaware, USA
- **Dr. Majidreza Nazem**, RMIT University, Australia
- **Dr. Antonio Miglio**, Hydraulic and Pipeline Consultant Engineer, Italy
- **Dr. Helen Mitrani**, Newcastle University, UK
- **Dr. Ross Stirling**, Newcastle University, UK
- **Dr. Nunzianta Squeglia**, University of Pisa, Italy
- **Dr. Ross Stirling**, Newcastle University, UK
- **Dr. Alessandro Tarantino**, Strathclyde University, UK
- **Dr. Roger Tilley**, University of California Santa Cruz, United States
- **Dr. Farshid Vahedifard**, Mississippi State University, USA
- **Dr. Hsin-Fu Yeh**, National Cheng Kung University, Taiwan

SCIENTIFIC COMMITTEE

Scientific Committee Members for ICSECT'22

- **Dr. Michele Barbato**, University of California, USA
- **Dr. Nawawi Chouw**, University of Auckland, New Zealand
- **Dr. Markus Dann**, University of Calgary, Canada
- **Dr. Bassam A. Izzuddin**, Imperial College London, UK
- **Dr. Thomas Keller**, Ecole Polytechnique Federale de Lausanne, Switzerland, USA
- **Dr. Venkatesh Kodur**, Michigan State University, USA
- **Dr. Tribikram Kundu**, University of Arizona, USA
- **Dr. Saber Moradi**, Ryerson University, Canada
- **Dr. Firas AL MAHMOUD**, University of Lorraine, France
- **Dr. Beatriz Martin-Perez**, University of Ottawa, Canada
- **Dr. M. Shamim Miah**, Graz University of Technology (TU Graz), Austria
- **Dr. Piervincenzo Rizzo**, University of Pittsburgh, USA
- **Dr. Kejin Wang**, Iowa State University, USA
- **Dr. Jianqiao Ye**, Lancaster University, UK

SCIENTIFIC COMMITTEE

Scientific Committee Members for ICEPTP'21

- **Dr. Valentina Busini**, Politecnico di Milano, Italy
- **Dr. Bing Chen**, Memorial University of Newfoundland, Canada
- **Dr. Fatma Esen**, Uludag University, Turkey
- **Dr. Stuart Khan**, University of New South Wales, Australia
- **Dr. Gordon Huang**, University of Regina, Canada
- **Dr. Meysam Majidi Nezhad**, Sapienza University of Rome, Italy
- **Dr. Elena M. Alvareda Migliaro**, University of the Republic of Uruguay, Uruguay
- **Dr. Vito Rizzi**, Università degli Studi di Bari Aldo Moro, Italy
- **Dr. Jalil Shadbahr**, National Research Council of Canada, Canada
- **Dr. Grzegorz Sierpiński**, Silesian University of Technology, Poland
- **Dr. Szabolcs Szilveszter**, Sapientia University, Romania, Romania
- **Dr. Wai Yuen Szeto**, University of Hong Kong, Hong Kong
- **Dr. Chuyang Y. Tang**, University of Hong Kong, Hong Kong
- **Dr. Shunde Yin**, University of Waterloo, Canada

KEYNOTE SPEAKERS

The keynote information for the 7th World Congress on Civil, Structural, and Environmental Engineering (CSEE'22) is as follows:



Dr. Dipanjan Basu

University of Waterloo,
Canada

ICGRE'22 Keynote Speaker



Dr. Federico Accornero

Politecnico di Torino, Italy

ICSECT'22 Keynote Speaker



Dr. Hesham El Naggar

Western University, Canada

ICGRE'22 Keynote Speaker



Dr. Brahim Benmokrane

University Of Sherbrook,
Canada

ICSECT'22 Keynote Speaker



Dr. David Toll

Durham University, UK

ICGRE'22 Keynote Speaker



Dr. Ivo Calì

Università degli Studi di
Catania, Italy

ICSECT'22 Keynote Speaker



Dr. Adil Al-Mayah

University of Waterloo, Canada

ICSECT'22 Keynote Speaker



Dr. Paulo B. Lourenço

University of Minho, Portugal

ICSECT'22 Keynote Speaker



Dr. Shahid Azam

University of Regina, Canada

ICEPTP'22 Keynote Speaker



Dr. Rana Sabouni

American University of
Sharjah, UAE

ICEPTP'22 Keynote Speaker

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KEYNOTE SPEAKERS



Titles: Sustainable Geotechnical Engineering -
A Research Perspective

Dr. Dipanjan Basu, University of Waterloo, Canada

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Dr. DIPANJAN BASU is a Professor in the Department of Civil and Environmental Engineering at the University of Waterloo (UW) (Canada). He was an Assistant Professor at the University of Connecticut (USA) before joining UW. Dr. Basu obtained his academic degrees from Purdue University (USA), Indian Institute of Technology Kanpur (India), and Jadavpur University (India). He is a Professional Engineer in the province of Ontario in Canada, and a Chartered Engineer and Professional Engineer in India. He is a member of several learned societies in USA, Canada, and India



Titles: Seismic Performance of Helical Piles

Dr. Hesham El Naggar, Western University, Canada

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Dr. El Naggar is a Distinguished University Professor of Western University, Canada. He is Editor-In-Chief of Soil Dynamics and Earthquake Engineering and past Associate Editor of the Canadian Geotechnical Journal. He published more than 450 technical papers/book chapters on foundations, soil-structure interaction and geotechnical earthquake engineering; and consulted on major projects worldwide. He is the main developer of software DYNA6 used worldwide for design of foundations for dynamic loads. He received numerous awards including: Geosynthetics, Stermac, Meyerhof, Canadian Geotechnical Colloquium Speaker, Western University Distinguished Professorship, Faculty Scholar Award, Outstanding Teaching, and Research Excellence Awards as well as the 2015 Ontario Professional Engineers Medal for Engineering Research & Development. He is an elected Fellow of Canadian Academy of Engineers, Engineering Institute of Canada and the American Society for Civil Engineers.

KEYNOTE SPEAKERS



Titles: Protecting Geo-Infrastructure from Climate Change
Dr. David Toll, Durham University, UK

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David Toll is Professor of Engineering and Co-Director of the Institute of Hazard, Risk and Resilience at Durham University. He is Chair of the British Geotechnical Association and has just completed an 8-year term as Chair of the Technical Committee on Unsaturated Soils of the International Society for Soil Mechanics and Geotechnical Engineering. He is a Fellow of the Learned Society of Wales and a Fellow of the Institution of Civil Engineers. He has been carrying out research into geo-hazards related to unsaturated and tropical soils for over 35 years. The main applications of his research are in the impacts of climate change on infrastructure slopes, rainfall-induced landslides and use of naturally occurring materials in road construction. He is Principal Investigator on major grants relating to climate adaptation: CACTUS (£1.76M) and Transport Africa (£1.1M) and Co-Investigator on the ACHILLES programme grant (£4.8M).



Titles: Fibre-Reinforced and Hybrid-Reinforced Concrete: An Updated Bridged Crack Model with Softening Pull-Out
Dr. Federico Accornero, Politecnico di Torino, Italy

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Federico ACCORNERO is currently adj. professor of Structural Mechanics at the National School of the Italian Army (Turin-Italy) and Fellow of the Shantou University (Guangdong-China). He received his PhD in Structural Engineering with distinction at Politecnico di Torino (Turin-Italy) in 2014. Before that, he studied at Politecnico di Torino and Ecole Nationale des Ponts et Chaussées (Paris-France).

His main research interests are: Fracture Mechanics; Next-generation Reinforced Concrete; Acoustic Emission Testing. Several of his researches have been published in international peer-reviewed journals, including ACI Structural Journal, ASCE Journal of Structural Engineering, ASCE Journal of Bridge Engineering, FIB Structural Concrete, Engineering Fracture Mechanics, Theoretical and Applied Fracture Mechanics, Cement and Concrete Composites, Magazine of Concrete Research, Construction and Building Materials, Engineering Structures.

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Titles: Recent Canadian Developments Related to FRP Reinforcement for Concrete Structures, Design Codes, and Applications in Buildings and Bridges

Dr. Brahim Benmokrane, University Of Sherbrook, Canada

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Professor Brahim Benmokrane is one of the world's top in the field of structural concrete internally reinforced with fiber-reinforced polymer (FRP) reinforcement. He has made outstanding contributions to research, teaching, innovation, and leadership targeting the development of FRP reinforcement for concrete structures and their durability, structural performance, field applications, development of design codes and standards and the relentless pursuit of knowledge transfer to industry. His research has significantly influenced the development of concrete structures reinforced with FRP bars, building codes, design specifications, and its practical use in North America and beyond.



Titles: Seismic Vulnerability and Retrofitting Of RC Buildings Not Designed To Resist Earthquakes

Dr. Ivo Calì, Università degli Studi di Catania, Italy

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Ivo Calì received his PhD in Structural Engineering in 1995 investigating the large displacement response of structures subjected to uplift foundations during earthquakes. In 1997 he started his academic career at the University of Catania in Italy where he continued his research on nonlinear dynamics and earthquake engineering. He supervised many PhD students and post-doctoral researches working on seismic vulnerability and retrofitting of existing buildings not designed to resist earthquakes and proposed a new computational strategy for the simulation of the nonlinear behaviour of masonry structures known as Discrete Macro-Element Method (DMEM).

KEYNOTE SPEAKERS



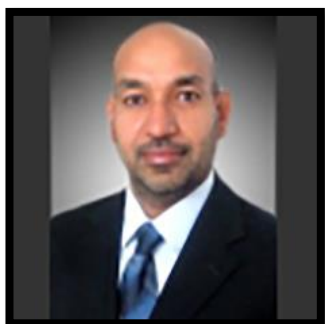
Titles: Monuments and Historic Buildings:
Monuments and Historic Buildings: Earthquakes and
Structural Engineering

Dr. Paulo B. Lourenço, University of Minho, Portugal

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Professor at the Department of Civil Engineering, University of Minho, Portugal, and Head of the Institute in Sustainability and Innovation in Structural Engineering, with 250 researchers. Experienced in the fields of non-destructive testing, advanced experimental and numerical techniques, innovative repair and strengthening techniques, and earthquake engineering. Specialist in structural conservation and forensic engineering, with work on 100+ monuments including 17 UNESCO World Heritage.



Titles: Toward Durable Structures: Novel Design
and Advanced Material Characterization

Dr. Adil Al-Mayah, University of Waterloo, Canada

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Dr. Adil Al-Mayah has a blend of work experience in both the engineering and medical fields, resulting in the licensing of ground-breaking innovations in both areas. Dr. Al-Mayah's expertise includes material characterizations, composite materials mechanics, imaging, biomechanical-based deformable image registration, biomechanical characterization of soft tissues, and cancer mechanics. He is the director of the Imaging-Mechanics Integration Laboratory (IMILab) at the University of Waterloo equipped with a state-of-the-art high resolution (20 μm) computed tomography (CT) imaging system, in addition to advanced computing facilities. The IMILab has attracted many researchers from different fields including environmental, earth science, building science, applied health and materials, in addition to civil and mechanical engineering fields. Al-Mayah's current research programs have resulted in the development of economical gripping systems for prestressing fiber reinforced polymer (FRP) plates and rods.

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Titles: Improved Dewatering of Mine Waste Tailings
Dr. Shahid Azam, University of Regina, Canada

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Shahid Azam is Professor of Environmental Systems Engineering at the University of Regina. He has worked for 30 years in the fields of geotechnical and geoenvironmental engineering. Through his research, he has devised advanced testing methods and modeling protocols to manage civil infrastructure and mining wastes. He has trained dozens of graduate students and post-doctoral fellows and has authored more than 140 publications in peer reviewed journals and international conferences.



Titles: Recent Trends in Wastewater Treatment with Emphasis on Metal- Organic Frameworks (MOFs)
Dr. Rana Sabouni, American University of Sharjah, UAE

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Dr. Rana Sabouni earned her MEng and PhD in Chemical Engineering from Western University (Canada) in 2009 and 2013, respectively. While doing so, she was awarded several scholarships and merit awards including OGS, and MITACS. She worked as a Post-Doctorate at Western University until joining American University of Sharjah as assistant professor in the Department of Chemical Engineering in September 2014. Recently, she was promoted to Associate professor of chemical engineering at AUS. Since then, Dr. Rana Sabouni has been actively involved with significant contributions in research and teaching, in addition to university and community service. In 2020, Dr. Rana Sabouni was awarded the Teaching Excellence Award. Her list of publications includes more than 37 research papers in high impact factor refereed Journals (Q1 and Q2), in addition to a number of conference proceedings and presentations. Dr. Rana Sabouni main research interest includes Metal-Organic Frameworks (MOFs) and their applications in drug delivery, and wastewater treatment. She supervised and co-supervised more than 10 Master's students and several senior design projects.

LIST OF PAPERS

The following papers were presented at the 7th World Congress on Civil, Structural, and Environmental Engineering.

Construction Materials

Title: A Study on the Optimal Utilization Conditions by Verifying the Effectiveness of Fine Dust Reduction of TiO₂

Authors: Ji-woo Lee, Do-hwan Kim, Young-sook Roh

Title: Transport Properties of Pozzolanic Concrete Based on the South African Durability Indexes

Authors: Victor S. Gilayeneh, Sunday O. Nwaubani

Title: Northern Kuwait Soil Evaluation in Producing Environmentally Friendly Blocks

Authors: Ahmad S. Saad, Taha A. Ahmed, Rana Ezzdine Lakys, Ali I. Radwan

Title: Early-Age Properties of Slag-Fly Ash Blended Geopolymer Concrete Reinforced with Glass Fibers – A Preliminary Study

Authors: Mohammad Zuaiter, Hilal El-Hassan, Bilal El-Ariss, Tamer El-Maaddawy

Title: Effect of Basalt Fibers on Properties of Normal and High Strength Concrete Made with Dune Sand

Authors: Shahruckh Shoaib, Tamer El-Maaddawy, Hilal El-Hassan, Bilal El-Ariss, Marwa Alsalamy

Title: Self-Healing Concrete: A Bibliometric Analysis

Authors: Mohammed H. Alzard, Hilal El-Hassan, Tamer El-Maaddawy, Ashraf Aly Hassan, Marwa Alsalamy, Fatma Abdulrahman

Title: Experimental Study on the Effect of Elongation Degree on the Cracking of Highly-Reinforced R/C Members

Authors: Theodoros Chrysanidis, Nikolaos Alamanis, Grigorios Papageorgiou

Title: Experimental Investigation on the Impact of Longitudinal Rebar Ratio on the Cracking Characteristics of R/C Components

Authors: Theodoros Chrysanidis

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Construction Materials

Title: Identification of Price Leading Indicators for Construction Resources

Authors: Ahmed Shiha, Elkhayam M. Dorra, Khaled Nassar

Title: Design of Alkali-Activated Ladle Slag Mortar Using Taguchi Method

Authors: Omar Najm, Hilal El-Hassan, Amr El-Dieb

Title: Developing Self-Compacting Steel Fibre Reinforced Concrete (SCSFRC) Mixes Based On Target Plastic Viscosity and Compressive Strength

Authors: Abdulkarim Mimoun, Sivakumar Kulasegaram

Title: Valorisation of Local Residues, By-Products and Wastes into Ceramic Materials for Civil Engineer Application

Authors: Jean-Régis Martinent, Yasmine Lalau, Guilhem Dejean, Doan Pham Minh

Title: Manufacturing Ultra-High Performance Concrete UHPC with Conventional Production Processes

Authors: Juan Felipe Serna, Cristian Javier Caicedo, César Echavarría

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Geotechnical Infrastructure

Title: Numerical Study of A Deep Cut Slope Stabilization in Residual Soil

Authors: Xing-Cheng Lin

Title: Instrumented Bidirectional Load Test to 157000kN for Deep Foundation Design

Authors: Anil Cherian

Title: Sludge as an Alternative to Cement for Canal Lining

Authors: Nahla Hazem, Ibrahim F. Mohamed, Abdelrahman M. Megahed, Ahmed A. Gaafar, and Sherif S. AbdelSalam

Title: Settlement Analysis of Field Monitoring Data at Kanchpur Bridge, Bangladesh

Authors: Dr. Hossain Md. Shahin, Saima Sadia, Mayesha Farzana Islam, Rafia Nusrat Khan Broti, Md. Shamsul Islam

Title: Comparison of Instrumented Pile Load Test Results with Finite Element Simulation

Authors: G. H. I. Diyes, H.S. Thilakasiri, L.I.N.deSilva

Title: Pullout Behaviour of Geogrid in Sand-Crumb Rubber Mixtures

Authors: Tirtha Sathi Bandyopadhyay, Pradipta Chakraborty, A. Hegde

Title: Numerical Analysis of Unpaved Roads Subjected to Surface Maintenance

Author: Bárbara Gonçalves Mourão, Ennio Marques Palmeira, Juan Félix Rodriguez Rebolledo

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Geohazards and Risk Assessment

Title: Tailings Dams Numerical Models: A Review

Authors: Andrea Geppetti, Johann Facciorusso, Claudia Madiari

Title: Monitoring Of Geotechnical Instabilities at Deep Underground Mines, Case of Draa Sfar Mine, Morocco

Authors: Kaoutar Clero, Said Ed-Diny, Tarik Soror, Said Rziqi, Mohammed Achalhi, Sanaa El Fkihi, Andronic Boanarijesy

Title: Stability Modelling of Clay and Silt Slopes to Evaluate the Feasibility of Rheometer Test Results

Authors: Gabriel Urquía, Juan Villacreses, Laura Ibagon, Fabricio Yepez

Title: Critical Rainfall and Slope Hazards in Central Taiwan Mountain

Authors: Sung-Chi Hsu, Qi-Zhi Liao, Yi-Chun Yeh

Title: Combination of UAV-borne LiDAR and UAV-borne photogrammetry to assess slope stability

Authors: Stella Coccia, Marwan Al Heib , Emmanuelle Klein

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Wastewater Pollution and Treatment

Title: Adsorption of Remazol Brilliant Blue RR from Aqueous Solution with Calcined Ostrich Eggshells

Authors: Eszter Rápó, Szende Tonk

Title: Eriochrome Black T Decolorization with Active Carbon and Hv/TiO_2 : Modeling and Process Optimization

Authors: Loredana Pintilie, Elena Niculina Drăgoi, Gabriel Dan Suditu, Mircea Teodor Nechita, Vlad Dafinescu

Title: Role of Algae in Mitigating Impacts of Air, Soil and Wastewater Pollution

Authors: Simrat Kaur, Brad Reddersen

Title: Optimization of DLLME Extraction Parameters for Pesticides Analysis by High Performance Liquid Chromatography

Authors: Ezgi Altiparmak, Emine Yilmaz, Filiz Dadaser-Celik, Nuray Ates

Title: Eco-Friendly Strategies to Regenerate Cyclodextrin-Based Adsorbents

Authors: Paola Fini, Vito Rizzi, Jennifer Gubitosa, Pinalysa Cosma

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Construction Safety and Standards

Title: Influence of Fall Hazard Warnings on Construction Sites

Authors: Chia-Wen Liao, Tsung-Lung Chiang

Title: Experimental and Numerical Study of Strain Degree of Medium-Reinforced Prism Specimens

Authors: Theodoros Chrysanidis, Nikolaos Alamanis, Grigorios Papageorgiou

Title: Fragility Assessment in RC Bridges Considering the Cumulative Damage over Time Due To Earthquakes

Authors: Daniel Herrera, Dante Tolentino

Title: Experimental Response of T-beams with Exposed Reinforcement under Static Point-loads

Authors: M.G. Parmiani, G. Faraone, L.Orta

Title: First Results of the Application of Infrared Thermography to the Crack Inspection in Wooden Beams

Authors: Miguel Gallego, Manuel Cabaleiro, Ivan Garrido, Borja Conde Belen Riveiro

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Green Design

Title: Effect of Incorporating Shredded and Crumbed Rubber in Pavement-Grade Concrete on Elasticity and Toughness Moduli

Authors: Sayed Mohamad Soleimani, Naser Mohammad, Abdel Rahman Alaqqad, Adel Jumaah, Tahir Afrasiab

Title: CEB as Potential Alternative Sustainable Material in Construction Industry: Survey on the Level of Acceptance in Kuwait

Authors: Rana Ezzdine Lakys, Ahmad Saad, Taha Ahmed

Title: Demolition Waste as an Alternative Aggregate for Plaster Mortars

Authors: Hernan Dario Cañola, Karen Venegas, Gersson F. B. Sandoval, Álisson F. do Couto

Title: A Review of Machine Learning Methods in Building Energy Performance Assessment

Authors: Handan Kunkcu, Kerim Koc, Asli Pelin Gurgun

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Design and Modelling

Title: Pseudo-Static Analytical Model For The Static And Seismic Stability Of Dry Stone Retaining Walls

Authors: Nathanaël Savalle, Eric Vincens, Paulo B. Lourenço

Title: Performance Analysis of Disconnected Piled Raft System in Soft Clay under Static Load

Authors: Seethalakshmi P, Anjali S

Title: A Parametric Study of Braced Excavation Considering the Effect of Adjacent Structures and Foundations Types

Authors: Tamanna-E-Hafiz Maisha, Fahim Shahriar Hassan, Istiakur Rahman

Title: Prediction of Cyclic Behaviour of Quaternary Alluvial Soil using Finite Element Approach

Authors: Angshuman Das, Rohan Deb, Subhadeep Banerjee

Title: Some Observations on Numerical Analysis of Lateral Response of Caisson Foundation

Authors: Sanshrit Singhai, Ramyasri Rachamadugu, Gyan Vikash

Title: Finite Element Simulation of Reinforced Concrete Beams under Fatigue Loading

Authors: Nagwa Ibrahim, Said Elkholy, Ahmed Godat

Title: Interaction Dynamic Analysis of Flexible Structures under Wind Load

Authors: Hesham Zieneldin, Mohammed Heweity, Mohammed Abdelnaby, Ehab Hendy

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Water Pollution and Treatment

Title: Food Wastes As Adsorbent Materials for Water Decontamination: The Use of Kiwi Peels To Remove Emerging Pollutants and Textile Dyes

Authors: Vito Rizzi, Jennifer Gubitosa, Paola Fini, Angela Agostiano, Pinalysa Cosma

Title: Trophic Transfer of Mercury in a Temperate Marine Food Web, Southern Baltic Sea

Authors: Agnieszka Jedruch

Title: Spatial-seasonal Variation in Microplastic Distribution at the Han River Estuary to the Coastal Area of Incheon, Korea a

Authors: Seon Yeong Park, Chang Gyun Kim

Title: Influence of Benzodiazepine Delorazepam on Xenopus laevis Embryogenesis

Authors: Chiara Fogliano, Bice Avallone, Chiara Maria Motta, Rosa Carotenuto

Title: Preparation and Characterization of Sulfonic Acid Functionalized Activated Carbon for Applications in Water and Wastewater Treatment

Authors: Betul Aykut-Senel, S. Sule Kaplan-Bekaroglu, Nuray Ates

Title: Coefficient of Variation of Drinking Water Networks in Residential Urban Complexes

Authors: Leonardo Pinela-Vargas, Natividad Garcia-Troncoso, Hilda Zambrano-Montalvan

Title: Determination of Primary Surface Water Pollution Indicators by Multivariate Statistical Techniques in an Industrialized Basin.

Authors: Halil N. Oruc, Mehmet Salim Oncel, Guleda Onkal Engin, Fatih Gulgen, Mehmet Karpuzcu, Sinem Vural, Batuhan Kılıç, Meltem Çelen

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Title: Cellular Cofferdams for Hydropower Generation

Authors: Marte Gutierrez, Simon Heru Prasetyo

Title: Evaluation of the Static Liquefaction Behaviour of Silty Tailings in Unsaturated Conditions

Authors: Gianluca Bella

Title: A Preliminary Insight into the Water Retention Response of Sand-Silt Mixtures of Stava Tailings

Authors: Gianluca Bella

Title: Seismic Slope Stability and Liquefaction Potential of Large Existing Local Dams

Authors: Nguyen Hong Nam

Title: Performance of Lateral Cutoff Wall on Seepage Characteristics Around Hydraulic Structures

Authors: Ahmed Sheba, Rabiea Nasr, Mohamed Elkholy

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New Technologies in Structural Design and Construction

Title: [A Vision-Based System for Structural Displacement Measurement](#)

Authors: Felipe J. Perez, Omar E. Mora

Title: [Inverted T-Beams in Structures: A Review](#)

Authors: Amina Yakout, Bilal El-Ariss, and Tamer El-Maaddawy

Title: [A Comparative Study between the Analytical and Experimental Deflection Response of Corroded Simply Supported Reinforced Concrete Beams](#)

Authors: Amthal Hakim, Wael Slika, Adel El Kordi, Asaad Biqai

Title: [Evaluation of the Structural Reliability of a Fixed Offshore Structure over Time](#)

Authors: Gerardo Varela, Dante Tolentino

Title: [Improving the Behavior of Steel Plate Shear Wall Using Double Infill Plates](#)

Authors: Ahmad Jabbar Hussain Alshimmeri, Denise-Penelope N. Kontoni

Title: [Behavior of R.C. Lightweight Deep Beam](#)

Authors: Alaa Morsy, Karim Helmi and Waleed Alsaadi

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Soil Pollution and Treatment

Title: [Evaluating Site Investigation Data to Assess Polycyclic Aromatic Hydrocarbon \(PAH\) Soil Contamination on Brownfield Sites in Surrey, UK](#)

Authors: . E. Hellawell¹, T. O'Reilly and S.J.Hughes

Title: [Prediction of Organic Pollutants Transfers in Contaminated Soils Using an In-House Thermodynamic Calculator](#)

Authors: Kouaho KOUAME, Simon AYACHE, Pauline MICHEL, Pascal MOUGIN

Title: [Granitic Mining Waste Feasibility for Liner Material Production](#)

Authors: Leonardo Marchiori, António Albuquerque, Victor Cavaleiro

Geoenvironmental Related Topics

Title: [Review on Biogeotechnics for Soil Treatment](#)

Authors: Sadak Shahid

Title: [Influence of Single-Dose Biocement Treatment on the Hydraulic Conductivity of the Riverbank Sand](#)

Authors: Anant Aishwarya Dubey , Rituraj Devrani , K. Ravi, Navdeep K Dhami, Abhijit Mukherjee

Title: [Laboratory-Scale Production of 'Sand-like' Material from Excavated Soft Soil](#)

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