



CSEE
CONGRESS

**PROCEEDINGS OF THE 10TH WORLD
CONGRESS ON CIVIL, STRUCTURAL, AND
ENVIRONMENTAL ENGINEERING (CSEE'25)**

10-12 APRIL, 2025 | BARCELONA, SPAIN

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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 10th World Congress on Civil, Structural, and Environmental Engineering (CSEE 2025).

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.

In the ninth meeting of this Congress, three Plenary speakers and five keynote speakers will share their expertise in a wide spectrum of fields and applications. In addition, approximately 104 papers will be presented by professors, students, and researchers from across the world.

We thank you for your participation and contribution to the 10th World Congress on Civil, Structural, and Environmental Engineering (CSEE 2025). We wish you a very successful and enjoyable experience.

Dr. Hany El Naggar

*Congress Chair and Proceedings Editor
CSEE 2025*

Dr. Joaquim Barros

*Congress Co-Chair and Proceedings Editor
CSEE 2025*

Dr. Paulo Cachim

*Congress local Committee Member
CSEE 2025*

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ABOUT CSEE'25

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'25 - 10th International Conference on Geotechnical Research and Engineering

ICSECT'25 - 10th International conference on Structural Engineering and Concrete Technology

ICEPTP'25 - 10th 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 **Civil, Structural, and Environmental 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'25 Congress:

Scientific Committee Members for ICGRE'25

- **Dr. Rifat Bulut**, Texas A&M University, USA
- **Dr. Anil Cherian**, Strainstall, UAE
- **Dr. Johan Clausen**, Aarhus University, Denmark
- **Dr. Yan-Jun Du**, Southeast University, China
- **Dr. Ahmed Fahmy**, AECOM, USA
- **Dr. Johann Facciorusso**, University of Florence, Italy
- **Dr. Russell A. Green**, Virginia Tech, USA
- **Dr. Marte Gutierrez**, Colorado School of Mines, USA
- **Dr. Rajeshwar Goodary**, Université des Mascareignes, Mauritius
- **Dr. Stefan Jung**, University of Applied Sciences, Germany
- **Dr. Majidreza Nazem**, RMIT University, Australia
- **Dr. Zia ur Rehman**, University of Portsmouth, UK
- **Dr. Ondra Sracek**, Palacky University in Olomouc, Czech Republic
- **Dr. Roger Tilley**, University of California Santa Cruz, USA
- **Dr. Farshid Vahedifard**, Tufts University, USA

SCIENTIFIC COMMITTEE

Scientific Committee Members for ICSECT'25

- **Dr. Firas AL MAHMOUD**, University of Lorraine, France
- **Dr. Farhad Aslani**, University of Western Australia, Australia
- **Dr. Michele Barbato**, University of California, USA
- **Dr. Chia-Ming Chang**, National Taiwan University, Taiwan
- **Dr. Nawawi Chouw**, University of Auckland, New Zealand
- **Dr. Flora Faleschini**, University of Padova, Italy
- **Dr. Iman Hajirasouliha**, University of Sheffield, UK
- **Dr. Bassam A. Izzuddin**, Imperial College London, UK
- **Dr. Venkatesh Kodur**, Michigan State University, Australia
- **Dr. Jiabin Li**, Katholieke Universiteit Leuven, , Belgium
- **Dr. Beatriz Martin-Perez**, University of Ottawa, Canada
- **Dr. M. Shamim Miah**, Graz University of Technology (TU Graz), Austria
- **Dr. Behzad Nematollahi**, University of Sheffield, UK
- **Dr. Cao Hung Pham**, University of Sydney, Australia
- **Dr. Khaled Sennah**, Toronto Metropolitan University (formerly Ryerson University), Canada
- **Dr. Zhong Tao**, Western Sydney University, Australia
- **Dr. Kejin Wang**, Iowa State University, USA

SCIENTIFIC COMMITTEE

Scientific Committee Members for ICEPTP'25

- **Dr. Chunjiang An**, Concordia University, Canada
- **Dr. Elena Alvareda**, University of the Republic of Uruguay, Uruguay
- **Dr. Aiduan Borrion**, University College London, UK
- **Dr. Valentina Busini**, Politecnico di Milano, Italy
- **Dr. Fatma Esen**, Uludag University, Turkey
- **Dr. Jennifer Gubitosa**, Università degli Studi di Bari Aldo Moro, Italy
- **Dr. Yuansheng Hu**, University College Dublin, Ireland
- **Dr. Gordon Huang**, University of Regina, Canada
- **Dr. Mervat El-Hoz**, CEO, Environmental Engineering Consultin, Australia
- **Dr. Stuart Khan**, University of New South Wales, Australia
- **Dr. Vito Rizzi**, Università degli Studi di Bari Aldo Moro, Italy
- **Dr. Grzegorz Sierpiński**, Silesian University of Technology, Poland
- **Dr. Wai Yuen Szeto**, University of Hong Kong, Hong Kong
- **Dr. Keisuke Watanabe**, Tokai University, Japan
- **Dr. Shunde Yin**, University of Waterloo, Canada
- **Dr. Chuyang Y. Tang**, University of Hong Kong, Hong Kong

PLENARY/KEYNOTE SPEAKERS

The Plenary/keynote information for the 10th World Congress on Civil, Structural, and Environmental Engineering (CSEE'25) is as follows:

Plenary Speakers



Dr. Anil Agrawal
The City College of New
York, USA
ICSECT'25 Plenary Speaker



Dr. Ethel Eljarrat
Institute of Environmental
Assessment and Water
Research (DAEA-CSIC), Spain
ICEPTP'25 Plenary Speaker



Dr. Jinsong Huang
The University of Newcastle,
Australia
ICGRE'25 Plenary Speaker



Dr. Dov Leshchinsky
University of Delaware, USA
ICGRE'25 Plenary Speaker



Dr. Mohamed Shahin
Curtin University, Australia
ICGRE'25 Plenary Speaker



Dr. Xia Yong
Hong Kong Polytechnic
University, Hong Kong
ICSECT'25 Plenary Speaker

Keynote Speaker



Dr. Khaled Sennah
Toronto Metropolitan
University, Canada
ICSECT'25 Keynote Speaker

ICSECT 2025 PLENARY SPEAKER



Titles: Man-made Extreme Hazard Effects on Bridges

Dr. Anil Agrawal, The City College of New York, USA

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Dr. Anil Agrawal is a Herbert G. Kayser Professor of Civil Engineering at the City College of New York, distinguished member of ASCE, and past Chief Editor of the ASCE Journal of Bridge Engineering during October 2009 to September 2021. He has been the past chair of the ASCE SEI Committee on Bridge Inspection, Rehabilitation and Monitoring and ASCE SEI Committee on Structural Control and Sensing. He has also been the chair of the Engineering Mechanics committee of Metropolitan Section ASCE since 2013, and is vice-chair of ExCom of the SEI Technical Community Committee. He is recipient of several prestigious awards, including Performance Excellence Award from the City University of New York in 2000, President’s Award for Excellence in Scholarship, Teaching and Service from the City College of New York in 2015, Richard R. Torrens Award for outstanding performance as editor of the Journal of Bridge Engineering from the ASCE in 2019, Arthur M. Wellington Prize for the paper, “Heavy Truck Collision with Bridge Piers: Computational Simulation Study,” Journal of Bridge Engineering, June 2019, from the ASCE in 2020, Metropolitan Section Civil Engineer of the Year Award for character, professional integrity, contribution to academia, and years of outstanding service to ASCE and the civil engineering profession from the Metropolitan Section of ASCE in 2022, and, Ernest E. Howard for “significant contributions in structural engineering for extreme hazard mitigation and blast and impact protection of highway bridges” from the ASCE in 2022, 2022 Research Implementation award for the project “NJDOT UAS/Drone Procedures Manual and Best Practices for Use in New Jersey” by the New Jersey Department of Transportation and 2023 Raymond C. Reese Research Prize for the paper “Performance-Based Design Framework for Concrete Barriers Subjected to Truck Collision,” Journal of Bridge Engineering, August 2021. He has published more than 132 peer reviewed papers, 26 major reports and more than 200 conference papers.

ICEPTP 2025 PLENARY SPEAKER



Titles: The Problem of Toxic Pollutants in the Circular Economy

Dr. Ethel Eljarrat, Institute of Environmental Assessment and Water Research (DAEA-CSIC), Spain

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I have extensive experience in the development of analytical methods for emerging contaminants, as well as in the assessment of the impact of persistent organic pollutants on the environment and on living beings, including humans. During my PhD, I contributed to the start-up of the first dioxin analysis laboratory in Spain, giving it national and international prestige, and participating as a reference laboratory in the 1999 food crisis following the contamination of animal feed in Belgium. Subsequently, my research in the field of flame retardants has contributed to the generation of scientific evidence for the inclusion of compounds such as PBDEs and HBCD in the list of banned POPs of the Stockholm Convention. Similarly, my line of research on pesticide issues generated pioneering results on the behaviour of the most widely used insecticides, pyrethroids, which were considered 'ideal' until our studies showed their accumulation in aquatic and terrestrial organisms, and even in humans.

Part of my current scientific activity focuses on the chemical impact of plastic pollution. I have developed an analytical methodology capable of determining a wide variety of plasticizers, and I have carried out the first studies showing the presence and accumulation of these pollutants in different marine organisms, including fish for human consumption. We have also studied human exposure to these plasticizers through inhalation, with studies on indoor air samples, as well as through ingestion, with analyses on beverage and food samples. Following the COVID-19 pandemic, I initiated a new research line, pioneered worldwide, to assess the environmental and human health risks from the use of face masks. The results obtained led to the achievement of different research projects and contracts with companies with the aim of using less contaminated materials in the manufacture of face masks and other commercial products, and thus controlling environmental contamination from the process of manufacturing materials.

ICGRE'25 PLENARY SPEAKER



Titles: Slope Stability Analyses: From Factor of Safety to Quantitative Risk Assessment
Dr. Jinsong Huang, The University of Newcastle, Australia

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Jinsong Huang is a professor at the Discipline of Civil, Surveying and Environmental Engineering, the University of Newcastle. His research interests include risk assessment in geotechnical engineering and computational geomechanics. He has published over 200 journal papers on the risk assessment of slope stability and landslides, the modelling of spatial variability, stress integration techniques for elastoplastic models, the contact dynamics of granular media, the analysis of hydraulic fracturing and the predictive maintenance of railway tracks. He has an H-index of 50 in Scopus attracting over 1800 citations per year. His contributions in risk assessment, particularly in slope stability and landslides, has earned him the prestigious title of 'Field Leader' in Environmental & Geological Engineering by The Australian's Research 2020 magazine. He received a Regional Contribution Award from the International Association of Computer Methods and Advances in Geomechanics at its international conference in Kyoto in 2014 and the GEOSNet Award from the Geotechnical Safety Network in 2017. He is an editorial board member for Georisk, Geodata and AI, Canadian Geotechnical Journal and Computers and Geotechnics. He is a committee member on the ASCE Geo-Institute's Technical Committee on Risk Assessment and Management (RAM) and the ISSMGE Technical Committee (TC304) on Engineering Practice of Risk Assessment & Management. He is the chair of the Executive Board of the Geotechnical Safety Network. He served as the conference chair of the 8th International Symposium on Geotechnical Safety and Risk held at the University of Newcastle in December 2022.

ICGRE 2025 KEYNOTE SPEAKER



Titles: Limit-State Design Framework for Geosynthetic Reinforced Structures
Dr. Dov Leshchinsky, University of Delaware, USA

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Professor Dov Leshchinsky has retired from the University of Delaware after 32 years of service. Prior to joining the faculty in Delaware, he worked as a geotechnical engineer with the Association of American Railroads in Chicago. At the University of Delaware, he had conducted research on slope stability, soil reinforcing, geosynthetics and dredged materials. The National Science Foundation, US Army Corps of Engineers, Federal Highway Administration and private industries have sponsored various research projects he had conducted. Much of his work has focused on comprehensive design methods for geosynthetic reinforced steep slopes and walls as well as geotextile tubes. He has published numerous referred papers in leading geotechnical journals. He has co-developed well-known design-oriented computer programs partially sponsored by FHWA and USCOE: FoSSA, ReSSA, MSEW, ReSlope, GeoCoPS. These design tools are being used worldwide.

ICGRE 2025 PLENARY SPEAKER



Titles: Innovative Ground Improvement for Civil Infrastructure Development

Dr. Mohamed Shahin, Curtin University, Australia

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Professor Mohamed Shahin is the Geomechanics and Pavements Lead at Curtin University, Australia. He received his BSc and MSc from Cairo University (Egypt) and his PhD from the University of Adelaide (Australia). He has over 25 years of academic and industrial experience with research interests spanning Computational Geomechanics, Ground Improvement and Railway Track Geotechnology. Professor Shahin currently serves as Editor and Associate Editor for a few international Journals and Board Member of several international societies. He is also an Elected Fellow Member of the American Society of Civil Engineers and Engineers Australia. Professor Shahin is listed in the top 1% of Highly Cited Researchers in Engineering by Web of Science, the top 2% of World Scientists by Stanford University Ranking, the top 0.5% of the Worldwide Scholars by ScholarGPS and Oceania's top 100 Civil Engineering Scientists by AD Scientific Index. He received several international prestigious research awards, including the International Association of Advanced Materials (IAAM) Scientist Medal, Sweden (2023), Fredlund Most Highly Cited Paper Award, Canadian Science Publishing (2018), Editor's Choice Paper Award, Canadian Geotechnical Journal (2016) and R. M. Quigley Best Paper Award, Canadian Geotechnical Society (2013).

ICSECT 2025 PLENARY SPEAKER



Titles: Development of Long-span Bridge Health Monitoring in Hong Kong
Dr. Xia Yong, Hong Kong Polytechnic University, Hong Kong

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Dr. Yong Xia is now a Professor at the Department of Civil and Environmental Engineering and Director of the Guangdong-Hong Kong Joint Laboratory for Marine Infrastructure. He obtained his PhD degree from Nanyang Technological University, Singapore and joined The Hong Kong Polytechnic University in 2006. Prof. Xia has conducted health monitoring of large-scale civil infrastructure for over 20 years. He has led and participated in the health monitoring of the world's longest Hong Kong-Zhuhai-Macao bridge, Tsing Ma Bridge, Stonecutters Bridge, 600 m tall Canton Tower, and the 632 m tall Shanghai Tower. Dr. Xia has co-authored three research books, more than 20 standards in structural health monitoring, and over 180 refereed international journal papers. He secured over 50 research grants as the principal investigator, totalling over HK\$80 million. Dr. Xia has won numerous national and international awards, including the State Technological Innovation Award, the Chang Jiang Scholar, the HKIE Structural Excellence Award, the PolyU President's Award, and ASCE Greater China Award.

ICSECT 2025 KEYNOTE SPEAKER



Titles: Innovative Fabricated Steel Beams with Cold-Formed Steel: Pioneering Cost-Effective and Sustainable Building Solutions

Dr. Khaled Sennah, Toronto Metropolitan University, Canada

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Dr. Khaled Sennah is a Professor of Structural Engineering at the Civil Engineering Department at Toronto Metropolitan University, Toronto, Canada. Dr. Sennah's areas of expertise include the design, evaluation, and rehabilitation of bridges and the structural behavior of structural components made of steel, concrete, and timber for building applications, on which he has more than 290 publications and has supervised over 100 graduate students. He has demonstrated numerous evidences of impact and contribution to the economic design and sustainable construction that have led to field applications and standards. Dr. Sennah's research achievements have been recognized by international awards such as the 1999 Arthur Wellington Prize for best journal paper in transportation-related infrastructure and the 2002 State-of-the-Art in Civil Engineering award for best journal paper, both from the American Society for Civil Engineers, ASCE. Also, he received the 1998 and 2020 P.L. Pratley Award for best paper in bridge engineering and the 2013 A.B. Sanderson Award for "Outstanding Contributions by a Civil Engineer to the Development and Practice of Structural Engineering in Canada," all from the Canadian Society for Civil Engineering. In recognition of his long-term achievements, he was elected Fellow of the Canadian Society for Civil Engineering (CSCE) in 2011, Fellow of the Engineering Institute of Canada (EIC) in 2016, and Fellow of the Canadian Academy of Engineering (CAE) in 2017. Sennah was elected Fellow of the International Association of Advanced Materials (FIAAM), recognizing his contribution to "Innovative Solutions in Structural Design and Construction." He is a member of three Canadian Standard Association's Technical Subcommittees for developing the 2025 Canadian Highway Bridge Design Code, chair of the FRP group, member of the Material Specific Design Provisions Working Group, and member of the Structures and Analysis Working Group for the development of the 2023 CSA Standard S7 Pedestrian, Cycling and Multiuse Bridge Design Guideline.

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The following papers were presented at the 10th World Congress on Civil, Structural, and Environmental Engineering.

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The Problem of Toxic Pollutants in the Circular Economy

Authors: Ethel Eljarrat

Slope Stability Analyses: From Factor of Safety to Quantitative Risk Assessment

Authors: Jinsong Huang

Limit-State Design Framework for Geosynthetic Reinforced Structures

Authors: Dov Leshchinsky

Development of Long-span Bridge Health Monitoring in Hong Kong

Authors: Xia Yong

Innovative Fabricated Steel Beams with Cold-Formed Steel: Pioneering Cost-Effective and Sustainable Building Solutions

Authors: Khaled Sennah

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Numerical Evaluation of Ground Deformation Due To Thermally Stressed Coal Measure Rock in Underground Coal Gasification

Authors: Sandeep Panchal, Nikhil Sirdesai, Abhishek Mehadia, Sumant Mohanto

Numerical Modeling for Excavation Stability: Comparing 2D and 3D Approaches in Underground Mining

Authors: Ayoub Aqazddammou, Safa Chlahbi, Abdessamad Khalil

On the Stress-Strain Response of a Deep Tunnel Under Squeezing Conditions: Numerical Analysis for the Design of Rock Supports

Authors: Gennaro Scognamiglio, Giulio Antonucci, Gianluca Bella

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Authors: Gianluca Bella

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Authors: ANIL CHERIAN

[Analysis of the technical feasibility of future civil works focused on the geological and geotechnical state in the area of Punzara, canton Loja](#)

Authors: Jose Luis Chavez Torres, Kunyong Yang, Feng Tugen, Dylan Manuel Cueva Castillo

[Vulnerability analysis of civil works focused on the geological-geotechnical state in the El Plateado sector of the city of Loja](#)

Authors: Jose Luis Chavez Torres, Kunyong Yang, Feng Tugen, Dylan Manuel Cueva Castillo

[Generation of a Susceptibility Map with Geomechanical Soil Data in the Southwestern Zone of Loja Ecuador](#)

Authors: Jose Luis Chavez Torres, Kunyong Yang, Feng Tugen, Brayan David Sarango Paz

[Hybrid Deep Foundation System for Collapsible Soils](#)

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[The influence of ceramic masses obtained by sintering on wall ceramics](#)

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Numerical Failure Analysis of Cut and Cover Tunnel Against Surface Blast

Authors: Abdullah Alsabhan, Mohammad Ansari, Ibraheem Rais, Md Rehan Sadique, Shamshad Alam, Wagdi Hamid

Improving the Mechanical Properties of Dune Sand for Construction Purposes by Using Nanosilica and Portland Cement as Additives

Authors: Faisal Shalabi, Fahad Al-Hadi, Ibrahim Al-Naim, Turki Al-Mulhim

An Experimental Study of the Parameters Affecting the Compression Index of Clay Soil

Authors: Rami Mahmoud Bakr

Strength and Deformation Characteristics of Electric Arc Furnace Slag as Ballast Aggregate

Authors: Meletetsega Gashaw Gebeyehu, Tadahiro Kishida, George Mylonakis

Application of the Kondner model for Predicting Peak Shear Strength in Multistage Direct Shear Tests

Authors: María José Toledo Arcic, Jens Engel

Comparison of Soil Properties obtained from In-Situ Tests and Laboratory: Case Study of shallow Foundation

Authors: Fauzi Jarushi, Musbah Hasan, Salah S. Hammouda, Omran Kenshel

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Social Housing: Critical Evaluation of Prestress Losses in Precast Slabs

Authors: Bolívar Hernán Maza, Daniela Maza Vivanco, Dolores Vanessa Maza Vivanco

Incorporation of sugarcane bagasse fiber on concrete and its effect on physical and mechanical properties

Authors: Renny Nazario-Naveda, Luis Angelats-Silva, Emzon Murga-Torres, Yassumi Villanueva-Corales, Josué Florián-Mejía, César Alfaro-Asmat

Towards a multidisciplinary framework to improve the quality of structural masonry in developing countries: Case study of South Africa

Authors: Bonga Khuzwayo, Walied Elsaigh, Roderick Rankine, Mark Walker

Effect of Recycled Aggregate Use on the Fresh State Properties of Limestone Calcined Clay Cement (LC3) Mortars

Authors: Derya Over, Nesil Ozbakan

Effect of 3-Chloro-2-Chloromethyl-1-Propene Modified Polypropylene Fibers on Compressive Strength Performance in Cementitious Systems

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Impact of Errors and Omissions in Concrete Slab Penetrations in Construction Projects

Authors: Amani Qasrawi, Tulio Sulbaran

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Variation of Applied Moment and Tensile Force in Bridge Deck Slab Overhang Due to Transverse Vehicle Impact to Bridge Barriers

Authors: Kousai Razouk, Khaled Sennah

A Systematic Framework for the Seismic Risk Management of RC Bridges Using Hybrid Retrofit Strategies

Authors: Jumana Hasina, Aman Mwafy, Anas Issa

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Authors: Mahan Samiadel, Farahnaz Soleimani

Structural Comparison of Shear Walls vs Bracing in Concrete Frames Applying Value Engineering

Authors: Luis Eduardo Hernández Medina, Kimberly Karola Quiroz Martínez, Julio César López Zerón, Karla Antonia Uclés Brevé

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[Sustainable Wine Consumption: Exploring Consumer Behaviour and Marketing Strategies for Natural and Gourmet Wines in Portugal](#)

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[Sustainability in the Ceramic Sector: The Case of a Portuguese Business Group](#)

Authors: Sara Sousa, Fernanda Alberto, Andreia Nabeiro

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Authors: RIVALDO TEODORO COELHO, VIVIAN SILVEIRA DOS SANTOS BARDINI

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[Obesity paradox: An age-dependent cardioprotection against persistent organic pollutant exposure?](#)

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[Advancements in Sustainable Construction: Leveraging Mining Waste for Eco-Friendly Building Solutions](#)

Authors: M.A.G.P. Perera, P.G. Ranjith

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[Plastics in Human Respiratory System: Inhalation of Suspended Micro- And Nanoplastics](#)

Authors: Rodolfo Il Romarate, Christine Joy Pacilan, Rueil-Feng Shiu, Hernando Bacosa

[The Air Quality in a touristic area of southeastern Mediterranean: The case of Chalki Island during a summer and autumn period of 2024](#)

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A New Material for the Optimal Removal of Tetracycline from Wastewater

Authors: Eszter Rápó, Szende Tonk

Assessment of Anaerobic Membrane Bioreactors in High-Strength Synthetic Wastewater Treatment

Authors: Kamal Ibrahim, Safwat Safwat, Abdelsalam Elawwad

Phytoremediation of mine tailing – Potential of *Chrysopogon zizanioides* and *Andropogon gayanus* in a Sahelian climate

Authors: Rose Yamma, Martine Kone, Arsène Yonli, Adrien Wanko Ngnien

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Highway upgrade Impact on Historical Pedestrian Tunnel

Authors: Ahmed Fahmy

Prediction of Active Earth Pressure in Constrained Backfill Retaining Walls using Support Vector Regression and Traditional Datafit based Non-Linear Regression

Authors: S Danish Bashir, Abdul Waris Kenue, B Munwar Basha

Constitutive Model for Cemented-Soil Based on a Dynamical Systems Approach under Monotonic Loading

Authors: Milind Amin, Rakesh J Pillai

Enhancing Sustainable Surface Treatments: A Review of Sasobit® Redux and Nanomaterial for Chip and Cape Seals in Cold Regions

Authors: Eche S. Okem, Mohamed M.H. Mostafa, Ankit Sharma, Gerrit Jordaan

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