



**PROCEEDINGS OF THE 8TH
INTERNATIONAL CONFERENCE ON CIVIL,
STRUCTURAL AND TRANSPORTATION
ENGINEERING (ICCSTE 2023)**

June 04 - 06, 2023 | Carleton University, Ottawa, Canada

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TABLE OF CONTENTS

Welcome Message from the Conference Chair.....	3
About ICCSTE 2023.....	4
Scientific Committee.....	5
Keynote Speakers.....	6
List of Papers	14
Sponsors	23
Journal Special Issue.....	24
ICCSTE 2024.....	25
Ethics & Malpractice	26
Contact Us	31

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 8th International Conference on Civil, Structural and Transportation Engineering (ICCSTE 2023).

ICCSTE 2023 is aimed to become one of the leading international annual conferences in the fields related to civil, structural, and transportation engineering. This conference 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.

ICCSTE is a series of international conferences held annually. The 8th International Conference on Civil, Structural and Transportation Engineering (ICCSTE 2023) is going to be held in a hybrid format, i.e. in person as well as online.

In the eighth meeting of this conference, two plenary speakers and five keynote speakers will share their expertise with the aim of exposing participants to a wide spectrum of applications, and to foster crosspollination of ideas and develop new research interests. In addition, approximately 48 papers will be presented from professors, students, and researchers across the world.

We thank you for your participation and contribution to the 8th International Conference of Civil, Structural and Transportation Engineering (ICCSTE 2023). We wish you a very successful and enjoyable experience.

Dr. Khaled Sennah
Conference Chair and Proceedings Editor
ICCSTE 2023

ABOUT ICCSTE 2023

The **8th International Conference on Civil, Structural and Transportation Engineering (ICCSTE 2023)** aims to become the leading annual conference in fields related to civil, structural and transportation engineering. The goal of ICCSTE 2023 is to gather scholars from all over the world to present advances in the fields of civil, structural and transportation engineering and to foster an environment conducive to exchanging ideas and information. This conference will also provide an ideal environment to develop new collaborations and meet experts on the fundamentals, applications, and products of the mentioned fields.

ICCSTE is a series of international conferences held annually. These conferences focus on all aspects of civil, structural and transportation engineering. After successfully holding ICCSTE'15 to ICCSTE'22 in Canada, ICCSTE 2023 is hosted in Carleton University, Ottawa - Canada as well this year. ICCSTE 2023 is going to be held in a hybrid format, i.e. in person as well as online.

ICCSTE is an acronym for **I**nternational **C**onference on **C**ivil, **S**tructural and **T**ransportation **E**ngineering.

- All papers were peer-reviewed
- The conference proceedings are published under an ISSN and ISBN number
- Each paper is assigned a unique DOI number by [Crossref](#)
- The conference proceedings are indexed by [Scopus](#) and [Google Scholar](#)
- The proceedings are permanently archived in [Portico](#) (one of the largest community-supported digital archives in the world)

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[Return to Top](#)

SCIENTIFIC COMMITTEE

We would like to thank the following for accepting to act as a member of the Scientific Committee for the ICCSTE 2023 Congress:

Scientific Committee Chairs



Dr. Khaled Sennah

Toronto Metropolitan University (formerly Ryerson University), Canada
Conference Chair

Scientific Committee Members

- Dr. Mizan Ahmed, Curtin University, Australia
- Dr. Firas Al-Mahmoud, University of Lorraine, France
- Dr. Aref Abadel, King Saud University, KSA
- Dr. Francis Au, University of Hong Kong, Hong Kong
- Dr. Michele (Mike) Barbato, University of California, USA
- Dr. Bruno Briseghella, Fuzhou University, China
- Dr. Johann Facciorusso, University of Florence, Italy
- Dr. Massimo Fragiaco, University of L'Aquila, Italy
- Dr. Rajeshwar Goodary, Université des Mascareignes, Mauritius
- Dr. Ahmed Hamoda, Kafrelsheikh University, Egypt
- Dr. Mostafa Fahmi Hassanien, Tanta University, Egypt
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- Dr. Maatouk Khoukhi, United Arab Emirates University, UAE
- Dr. Elżbieta Macioszek, Silesian University of Technology, Poland
- Dr. Iraj H.P. Mamaghani, University of North Dakota, USA
- Dr. Antonio Miglio, Hydraulic and Pipeline Consultant Engineer, Italy
- Dr. Ayman M. OKEIL, Louisiana State University, USA
- Dr. Luigi Di Sarno, University of Liverpool, UK
- Dr. Grzegorz Sierpiński, Silesian University of Technology, Poland
- Dr. Maged A. Youssef, University of Western Ontario, Canada

[Return to Top](#)

KEYNOTE SPEAKERS

The keynote information for the 8th International Conference on Civil, Structural and Transportation Engineering (ICCSTE 2023) is as follows:

Plenary Speakers



[Dr. Venkatesh Kodur](#)
Michigan State University,
USA



[Dr. Tribikram Kundu](#)
The University of Arizona,
USA

Keynote Speakers



[Dr. Husham Almansour](#)
National Research Council
Canada (NRC), Canada



[Dr. Nawawi Chow](#)
University of Auckland,
New Zealand



[Dr. Marte Gutierrez](#)
Colorado School of Mines,
USA



[Dr. Lorenzo Macorini](#)
Imperial College London,
UK



[Dr. Luigi Di Sarno](#)
University of Liverpool, UK

ICCSTE 2023 PLENARY SPEAKERS



Titles: Strategies for Enhancing Resiliency of Modern Concrete Structures under Fire Hazard

Dr. Venkatesh Kodur, Michigan State University, USA

[View Abstract](#)

[Return to Top](#)

Dr. Venkatesh Kodur, is a University Distinguished Professor and Director of the Centre on Structural Fire Engineering and Diagnostics at Michigan State University. He is an internationally recognized scholar for his contributions in structural, material and fire engineering fields. His research interests include Fire resistance analysis and design of structural systems, material performance at elevated temperatures and Building collapse investigations. Dr. Kodur has published more than 500 peer-reviewed papers in journals and conferences, and has given numerous plenary and key-note presentations at major international conferences. As per Google Scholar, he has more than 17,300 citations with an “h” index of 72. Dr. Kodur’s contributions to the Civil Engineering and Fire Protection Engineering professions have been recognized by peers through prestigious honors and awards. He has been elected as Fellow of six Institutes/Academies: Canadian Academy of Engineering, American Society of Civil Engineers, Indian National Academy of Engineering, Structural Engineering Institute, American Concrete Institute, and the Society of Fire Protection Engineers. He is a professional engineer, Associate Editor of Journal of Structural Engineering, and Journal of Structural Fire Engineering, editorial board member of five leading journals, Chairman of ASCE(SEI)-SFPE 29 (Fire) Standards Committee, and a member of UK-EPSRC College of Reviewers. He has won many awards and prestigious appointments, including Michigan State University “University Distinguished Professor” Award; American Institute of Steel Construction Faculty Fellowship Award; MSU Distinguished Faculty Award; NRCC (Government of Canada) Outstanding Achievement Award; Fulbright Scholar award; “INFOSYS Visiting Chair Professor” appointment at the Indian Institute of Science, Bangalore, India; Government of India “VAJRA Faculty Award for Collaborative Research” at the Indian Institute of Technology-Delhi; and NATO Award for collaborative research. Most notably, Dr. Kodur was part of the Federal Emergency Management Agency and American Society of Civil Engineers/Society of Fire Protection Engineers high profile “Experts Team” that investigated the collapse of the World Trade Center buildings as a result of September 11 attacks.

ICCSTE 2023 PLENARY SPEAKERS



Titles: Recent Developments in Structural Health Monitoring

Dr. Tribikram Kundu, The University of Arizona, USA

[View Abstract](#)

[Return to Top](#)

Professor Kundu's major research area is nondestructive testing and structural health monitoring. On this topic he has published 9 books and 386 technical papers – 202 of those in peer reviewed scientific journals with about 9000 citations according to Google Scholar with an h-index of 50 (Google Scholar), 43 (Scopus) and 37 (Web of Science). He received Humboldt Research Prize (Senior Scientist Award) in 2003 and Humboldt Fellowship award in 1989 and 1996, from Germany. He was also recognized through 2012 NDE Life Time Achievement Award from SPIE (the International Society for Optics and Photonics), 2015 Research Award for Sustained Excellence from ASNT (the American Society for Nondestructive Testing), 2017 Founders Award from Nondestructive evaluation, Diagnostics and Prognostics Division (NDPD) of ASME (the American Society of Mechanical Engineers), 2015 Lifetime Achievement Award and 2008 Person of the Year Award from the Structural Health Monitoring Journal, Satish Dhawan Chair Professorship from the Indian Institute of Science, Bangalore and a number of Invited & Honorary Professorships from France, Germany, Sweden, Switzerland, Spain, Italy, South Korea, Poland, Singapore, India, China and Japan. He is a Fellow or a Distinguished Fellow of six professional societies (ASME, ASCE, SPIE, ASNT, ASA & IIAV) and the Founding Editor-in-Chief of the ASME Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems (JNDE). He has served as the Associate Editor of four other journals.

ICCSTE 2023 KEYNOTE SPEAKERS



Titles: Resilience-Enhancement of Bridge Infrastructure in Changing Climate
Dr. Husham Almansour, National Research Council Canada (NRC), Canada

[View Abstract](#)

[Return to Top](#)

Husham Almansour, Ph.D., P.Eng. is a Senior Research Officer in the Sustainable Resilient Infrastructures and Communities Research Unit, the Construction Research Centre, National Research Council Canada, and an Adjunct Professor in the area of Structural Engineering, Department of Civil Engineering, the University of Ottawa, and Department of Civil & Mineral Engineering, University of Toronto. Dr. Almansour's expertise is in the area of structural mechanics with a focus on the performance, protection, and rehabilitation of aging structures and infrastructure against extreme loads and innovative structural systems using advanced materials. He is leading the NRC research teams in the area of climate-resilient bridge infrastructure and the area of innovative high-performance structural systems using advanced materials. Dr. Almansour supervised more than twenty Ph.D. and M.A.Sc research theses. Dr. Almansour is a member of many national and international committees, including NBCC, CSA committees S6, S 850, S806, ASCE Blast and impact loads on structures, and TAC Structure Standing Committee.

ICCSTE 2023 KEYNOTE SPEAKERS



Titles: The Role of Soil in Seismic Response of Bridges

Dr. Nawawi Chow, University of Auckland, New Zealand

[View Abstract](#)

[Return to Top](#)

Dr. Nawawi Chow is a Professor in the Department of Civil and Environmental Engineering and Director of the Innovative Transportation System Solutions (iTSS) Lab at the University of Waterloo. He is a Fellow of Canadian Society for Civil Engineering and the past Chair of Transportation of Division of CSCE. Dr. Chow received Transportation Association of Canada (TAC)'s Academic Merit Award (2011) sponsored by Transport Canada for his long-term contribution to the advancement of the academic field and to the development of tomorrow's transportation leaders. His was also the recipient of Engineering Research Excellence Award (2021) and Excellence in Graduate Supervision (2017). Dr. Chow's research interest specifically focuses on evaluation and optimisation of large, complex traffic and transportation service systems where uncertainty and dynamics play a major role, and on the development of decision support tools for use in managing these systems. He has a long track record of research contributions to the areas of intelligent transportation systems, public transit, road safety, and winter road maintenance. Dr. Chow holds several international patent and software copyrights. Currently, Dr. Chow is leading a number of projects Chouwned by NSERC, Transport Canada, Ministry of Transportation Ontario, City of Toronto, Region of Waterloo, Go Transit, and many industrial partners. He has served on numerous technical committees of various professional organizations, including Transportation Research Board's Committee, Editorial Advisory Board of the journal of Transportation Research, Intelligent Transportation Systems Society of Canada, Canadian Urban Transit Association, and Institute of Transportation Engineers.

ICCSTE 2023 KEYNOTE SPEAKERS



Titles: Rock-Support Interaction for Transportation Tunnels in Squeezing Ground
Dr. Marte Gutierrez, Colorado School of Mines, USA

[View Abstract](#)

[Return to Top](#)

Dr. Marte Gutierrez is the James R. Paden Distinguished Professor at the Department of Civil and Environmental Engineering and Director of the US DOT Tier 1 Center for Underground Transportation Infrastructure (CUTI) at Colorado School of Mines. Formerly, he was Post-Doctoral Fellow, Senior Engineer, and Program Leader at the Norwegian Geotechnical Institute (NGI), and Associate Professor/Professor at Virginia Tech. He was Founding Chair of the Department of Civil and Environmental Engineering at Khalifa University in Abu Dhabi, UAE. He has also held visiting professorship and researcher positions in China, Chile, France, Japan, and South Korea. He has published more than 360 papers in book chapters, journals, and conference proceedings, and has given keynote and invited lectures at several conferences. He has been involved in several landmark and groundbreaking Civil Engineering projects while working in Norway. He is an Associate Editor of three international journals and is an Editorial Board Member of four other international journals. He is the recipient of the Geotechnical Research Medal from UK's Institute of Civil Engineers, the Peter A. Cundall Honorable Mention Award, the Applied Rock Mechanics Research Award from the American Rock Mechanics Association, the 18th Advanced Powder Technology Distinguished Paper Award from the Society of Powder Technology Japan, and the Kwanghua Visiting Professorship from Tongji University. Dr. Gutierrez has been a Fulbright Scholar at the University of Chile

ICCSTE 2023 KEYNOTE SPEAKERS



Titles: Multi-Level Modelling Strategies for Accurate Assessment of Masonry Arch Bridges
Dr. Lorenzo Macorini, Imperial College London, UK

[View Abstract](#)

[Return to Top](#)

Dr Lorenzo Macorini is a Reader in Structural Engineering with a particular interest in computational structural mechanics and the response of masonry structures. He joined the Department of Civil and Environmental Engineering at Imperial College London as a Marie Curie Research Fellow in 2008. Since then, he has been developing within the Computational Structural Mechanics (CSM) group at Imperial advanced modelling approaches for brick/block-masonry components at different scales of representation with robust strategies for the calibration of model material parameters. He led different research projects funded by research councils and industry, where the developed models were used for accurate simulations of masonry components and systems gaining an improved understanding of the complex behaviour under serviceability and ultimate loading conditions including dynamic actions induced by earthquakes.

ICCSTE 2023 KEYNOTE SPEAKERS



Titles: Assessment of Existing RC Bridges with Spatially-Variable Pitting Corrosion Subjected To Increasing Traffic Demand

Dr. Luigi Di Sarno, University of Liverpool, UK

[View Abstract](#)

[Return to Top](#)

Dr. Di Sarno holds a PhD in Structural Engineering, MSc in Earthquake Engineering and Structural Design and MSc in Structural Steel Design. Dr. Di Sarno is Visiting Professor at the Mid-America Earthquake Center, headquartered at University of Illinois, Urbana-Champaign, USA, since 2002. He is Honorary Member Staff at the College of Engineering, University of Bristol, UK, since 2011 and Adjunct Professor in Seismic Engineering at INTEC, Dominican Republic. Dr. Di Sarno's research interests include: (i) analysis, design and retrofitting of critical structures and infrastructure, (ii) use of innovative low-carbon materials for sustainable and resilient infrastructure (iii) engineering solutions for climate change adaptation and (iv) advanced experimental testing and numerical simulations, including digital twins for asset management. Dr. Di Sarno has authored about 250 research publications, including refereed journals, conference papers, research reports, book chapters and field investigation reports. He has co-authored with Professor A.S. Elnashai the book: Fundamentals of Earthquake Engineering, edited by Wiley & Sons. He is also Associate Editor of prestigious international journals by Elsevier and Springer. Dr. Di Sarno is member of American Society of Civil Engineers (ASCE) Performance Based Design for Structures Committee and also Seismic Effects on Structures Committee. He is also part of the prestigious Disaster Management Advisory Group of the Pan American Health Organization, part of the World Health Organization. Additionally. He is also a member of the Working Group 11 of the European Association for Earthquake Engineering dealing with the seismic design of bridges and member of the Global Platform for Disaster Risk Reduction of the United Nations. Dr. Di Sarno is the Founder and Leader of the Resilient and Sustainable Infrastructure Group at University of Liverpool, Department of Civil Engineering. He is also global consultant in disaster risk analysis and response mitigations. Further details on Dr. Di Sarno's academic activities at the following link: <https://www.liverpool.ac.uk/engineering/staff/luigi-di-sarno/>

LIST OF PAPERS

Transportation and Traffic Engineering

[Optimal Location Estimation and Anomaly Quantification for a Mobile Information Carrier: Prior Feeds for Deep Learning](#)

Authors: Nicholas V. Scott and Virgil O. Barnard

[Comparing Traffic Laws and Impacts in Bangladesh and Developed Countries: Insights and Recommendations for Improving Road Safety](#)

Authors: Talha Jubair, Ashkar Rahman Aquib

[Impact of Accidents Involving Autonomous Vehicles on the Perceived Benefits and Concerns](#)

Authors: Kareem Othman

[Proposal of New Star Rating Bands for iRAP on Two-lane Rural Roads in Ecuador](#)

Authors: Yasmany García-Ramírez

[Safety Impacts of Converting Stop-Controlled Intersections in Ottawa to Roundabouts](#)

Authors: Milad Abolhassani, Yasser Hassan, Ali Kassim

[Impact of Red-Light Cameras on Traffic Collisions in the City of Ottawa](#)

Authors: Sorousha Saffarzadeh, Yasser Hassan, Ali Kassim

[Weather Impact On Pipeline Temperature Distribution](#)

Authors: Ying Huang, Xingyu Wang, Shuomang Shi, and Nita Yodo

LIST OF PAPERS

Transportation and Traffic Engineering

[Investigating the Influence of Temperature on the Weight-InMotion Measurements Using In-Pavement Strain Sensors](#)

Authors: Xinyi Yang, Ying Huang, Pan Lu

[Dynamics and Outcomes of Accidents along the Triangle of Death in Cameroon](#)

Authors: Nnecdem Padison

[Enhancing the Performance of Railway Trackbed with Vibro Stone Column Technique](#)

Authors: Koohyar Faizi, John Allsop, Paul Beetham, and Rolands Kromanis

[A Vulnerability Assessment Approach For Internet Of Things Enabled Transportation Networks Subjected To CyberPhysical Attacks](#)

Authors: Konstantinos Ntafloukas, Liliana Pasquale, Beatriz Martinez-Pastor, Daniel P. McCrum

[Maritime Transport Infrastructure Effects on the Territory Development](#)

Authors: Hanan Kaffoura, Ossama Khalil

LIST OF PAPERS

Water Resources, Pollution and Treatment

[Analysing Changes in Land Use and Land Cover \(LULC\) For C81 Catchment of the Free State, South Africa](#)

Authors: Dineo Mollo, George Ndlhovu, Samuel Tetsoane

[Bayesian Belief Network and Optimal Learning Analysis of Historical Flood Level Data for the Mississippi Watershed Under Data Paucity Conditions](#)

Authors: Nicholas V. Scott and Dietrick Lawrence

New Technology in Civil Engineering

[Utility Industry as a Complex Adaptive System: A Strategic Analysis](#)

Authors: Amit Kumar, Kumar Neeraj Jha, Geetam Tiwari

[Performance of FRP-Steel Joints and FRP-Steel Beams Fastened by FRP Anchors](#)

Authors: Omnia R. AbouEl-Hamd, Amr M.I. Sweedan, Bilal El-Ariss, Khaled M. El-Sawy

[Schedule Optimization for Cash Flow Management of Owner Portfolios](#)

Authors: Ali Fares , Ashraf Elazouni, Sameh Al-Shihabi, Mubarak Al-Alawi

[Development of Digital Twin Concept for Real-Time Detection of Abnormal Changes in Structural Behaviour](#)

Authors: Shady Adib, Vladimir Vinogradov, Peter Gosling

[Experimental Load Carrying Capacity of Fiber-Reinforced Concrete \(FRC\) TL-5 Concrete Barriers Subjected to Equivalent Vehicle Impact Loading at End Location](#)

Authors: Morteza Fadaee, Khaled Sennah

LIST OF PAPERS

Geotechnical Engineering & Construction Management

[Enhancing Fire Resistance of Piloti Structures using Insulated CFRP Reinforced RC Column](#)

Authors: Hansol Lee, Jinwon Shin, Min Jeong-ki , In-Rak Choi, Sung-Mo Choi

[Optimization of CWP-BFS Blended Geopolymer Concrete Using BWM based Taguchi Method](#)

Authors: Ponalagappan Chokkalingam, Abdulkader El-Mir, Hilal El-Hassan, Amr El-Dieb

[Chloride Diffusion In Concrete Under Temperature Gradient Condition In Arid Climates](#)

Authors: Remilekun Shittu, Akram AlFantazi, Tae-Yeon Kim

[Insulation Properties of Rice-Based Materials in Hot and Moderate Climates](#)

Authors: Maatouk Khoukhi, Abeer Dar Saleh

[DEM Modelling Of Rock Masses Affected By Permafrost Degradation](#)

Authors: William Boffelli, Francesco Calvetti

[Coconut Shell as Substitute of Natural Aggregate in Concrete for Developing Regions – A Short Review](#)

Authors: Gildardo Gómez-Hernández, Marco Antonio Sánchez Medina, Marco Antonio Maldonado-García

[Toward Enhancing Program Risk Management to Deliver Mega Construction Projects](#)

Authors: Roozbeh Panahi, Katia Rizkallah, Ahmed Abbas

[Examining the Assessment of Facility Management \(FM\) In Educational Buildings](#)

Authors: Ghasan Alfalah and Abobakr Al-Sakkaf

LIST OF PAPERS

Building Material

[Performance of Hybrid Glass Fiber-Reinforced Slag-Fly ash Blended Geopolymer Concrete](#)

Authors: Mohammad Zuaiter, Hilal El-Hassan, Tamer El-Maaddawy¹, Bilal El-Ariss

[Tensile Strength of High Performance Concrete](#)

Authors: Sofía Rodríguez, María Guarín, Andrés Restrepo, César Echavarría

[Effect of Type of Sand on the Flowability and Compressive Strength of Slag-Fly Ash Blended Geopolymer Mortar](#)

Authors: Joud Hwalla, Hilal El-Hassan, Joseph J. Assaad, Tamer ElMaaddawy, Jad Bawab

[Use of Taguchi Method to Optimize the Mix Design of Pervious Geopolymer Concrete](#)

Authors: Faiz Habib Anwar, Abdulkader El-Mir, Hilal El-Hassan, Mohamed Hamouda, Kim Hung Mo

[Investigation of the Permeability of Fibre-Modified Water Permeable Asphalt with Methods of Asphalt Petrology](#)

Authors: Leandro Harries, Maximilian Schütz, David Kempf, Jia Liu

LIST OF PAPERS

Building Material

[Insulated Wood Walls Using Coconut Fiber](#)

Authors: Andrés Restrepo, César Echavarría

[Compressed Recycled Asphalt Blocks As An Alternative To Capillary Moisture](#)

Authors: Hernan Dario Cañola, Andres Fernando Urrego

[Sustainability Cement Block Selection Based On IntervalValued Hesitant Fuzzy Group Analysis For Construction Industry Problems](#)

Authors: Arash Behzadipour, Mohsen Akbarpour Shirazi

Water & Waste Water Management & Treatment

[Quantitative Hydrological Analysis Of West Banas River Basin, India](#)

Authors: Gyaniram Kumawat, Rohit Goyal, Sumit Khandelwal

LIST OF PAPERS

Bridge Engineering

[Development of Accurate Bridge Structure Strain Response Function Due to Temperature Changes Effect](#)

Authors: Mohammed El-Diasty, Maryam Al Mazrouai, Mosbeh Kaloop

[Evidencing the Need for Consistency in Long Term Investment to Secure the Safety of Road Bridges](#)

Authors: Nicola-Ann Stevens, Myra Lydon, Adele H Marshall

[Aging Concrete Slab on Steel Girder Bridges in Changing Climate](#)

Authors: Istemi F. Ozkan, Husham Almansour, and Shahroz W. Shaikh

[Temperature Effects on Concrete Slab on Steel Girder Bridges with Malfunctioning Expansion Joints](#)

Authors: Istemi F. Ozkan and Husham Almansour

[Design Of Punching Shear Of R.C. Footings Using American And European Codes: A Comparative Study](#)

Authors: Amr El-said, Ahmed F. Deifalla, Nehal M. Ayash and Maged Tawfik

LIST OF PAPERS

Geotechnical & Structural Engineering

[Seismic Behavior of Rigid Inclusion Foundation System](#)

Authors: Yaseen Shayah

[The Position of Bitumen Emulsions on Different Bases](#)

Authors: Moritz Middendorf, Cristin Umbach, Stefan Böhm, Jia Liu, Bernhard Middendorf

[Novel Dissipative Technologies for Earthquake Resistance of Structures with Tensegrity Structure and Super Elastic Characteristics](#)

Authors: Narinder Singh, Ada Amendola

[Multi-objective Performance Based Control of Building Frames during Wind and Earthquake Events for Multi-Hazard Mitigation using a New Hybrid Passive Energy Dissipation Device](#)

Authors: Suresh Bhalla, Alok Madan, Mahesh B. Adala

[Comparative Study on Design Results of a Multi-storied Building using SAP2000 and ETABS](#)

Authors: Ashfaq Khan, Amjad Ali, Taimur Malik, Adil Khan, Amjad Khan

[Non-loading Test of FRP Panel Reinforced Piloti Column exposed to Standard Fire after 1 hour](#)

Authors: Seulgi Han, Dashdemberel Norovbadam, Junyoung Gwak, Jinwon Shin2, Sungmo Choi

LIST OF PAPERS

Geotechnical & Structural Engineering

[Damages Identification Methodology of Unseen Reinforced Concrete Foundations Using Error Analysis of Transfer Resistance](#)

Authors: Ronald Alvarez and Shigeki Unjoh

[Compartment Fire Test on Steel Columns with Various FireResistant Methods](#)

Authors: In-Rak Choi, Ji-Hye Park, Jun-Kyu Kim, Jin-Won Shin, SungMo Choi

[Hill Slope Erosion due to River Meandering and its Retrofitting- A Case Study](#)

Authors: Satyendra Mittal, Sonam Ladol, Nehul Tyagi, Sangeeta Singh

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[Return to Top](#)

JOURNAL PUBLICATION

Selected articles from the conference will be published in the [International Journal of Civil Infrastructure \(IJCI\)](#) after a secondary review process.

This journal has adopted to the open-access model, meaning all free access to the journal's articles and content with no need for subscription. This ensures larger audience and therefore higher citations.

All published papers of IJCI will be submitted to Google Scholar. Additionally, they will be permanently archived in Portico (one of the largest community-supported digital archives in the world) and will be assigned unique DOIs.

Please visit the following website for the respected journal:
IJCI: <https://ijci.avestia.com>

ICCSTE 2024

The 9th International Conference on Civil, Structural and Transportation Engineering (ICCSTE 2024) will be held on June, 2024 in Canada.



For inquiries and to obtain further information on the congress,
please visit the [website](#)

You can also email info@iccste.com or call us at: +1-613-834-9999

[Return to Top](#)

ETHICS & MALPRACTICE

At International ASET Inc., we take matters that relate to ethics in publishing very seriously. We believe that the peer-review publication process is a vital building block of academia, and its integrity must be maintained at all costs, which is why every article will be peer-reviewed by several experts in the field. Under peer-review, experts in the related fields are required to provide opinions and comments on the improvements of the submissions.

We are proud of our efforts towards abiding by the guidelines of ethics, integrity, and high standards in publishing.

Following are the ethics guidelines set by the organizers for the authors and the reviewers of the conference:

Scientific Committees

Scientific committees consisting of experts in the fields are established. The committees oversee the peer-review and publication process. To see the scientific committee members, please follow the link: [Scientific Committee](#)

Equality and Decisions

One or more reviewer, scientific committee member, or chair, (internal or external), are responsible for evaluating the relevance of the submitted manuscripts to the proceedings, technical and scientific merit, originally, and impact. These evaluations are to be carried out regardless of ethnicity, religion, gender, sexual orientation, political beliefs, and institutions. Successive to peer-review, the Chair has full authority and is solely responsible for the published content and the process thereof.

Confidentiality

Scientific committee member(s) and publishing staff may not disclose manuscripts or their content, directly or indirectly, to anyone other than individuals invited to review the manuscript (whether they accept or not), other reviewers of the same publications, and publishing staff.

Conflicts of Interest

Scientific committee member(s) and publishing staff may not utilize the contents of submitted manuscripts whether accepted or rejected, directly or indirectly for their own research purposes without prior written consent by the authors.

ETHICS & MALPRACTICE

Reviewers

Contribution to Decisions

In order for final decisions to be made regarding acceptance or rejection of papers, we rely on peer-review. Peer-review is the process of experts in the field reading, understanding, and objectively commenting on submitted papers. Through peer-review, scholars give back to the academic and scientific community by helping the chair(s) make decisions regarding manuscripts.

Promptness

Reviewers should promptly notify the chair(s) if they are unable or unqualified to carry out their reviewing duties. Reviewers should do their best to provide the reviews to the chair(s) as promptly as possible, and within the designated time-frame.

Acknowledgment of Source

The reviewer should notify the chair(s) if they find any similarities in the paper being reviewed and any other work that has been published previously.

Confidentiality

Reviewers must not share the contents of the manuscripts they receive for review, regardless of their decision to review or contents of the review, directly or indirectly, with anyone other than the person who has assigned the review.

Fairness

Reviewers should review manuscripts fairly and objectively, with supporting evidence or arguments, regardless of personal feelings or biases.

Conflicts of Interest:

Invited reviewers should immediately inform the chair(s) in case of a conflict of interest based on competitive, collaborative, personal, family, and other relationships with the authors or people involved in the work.

ETHICS & MALPRACTICE

Authors

Reporting Standards

The paper being submitted for the proceedings should be based on clear objective, discussion, and references. The findings, data, and the arguments being used in the paper should be accurate. It is author's responsibility to guarantee the authenticity of the data in the paper.

Authorship

Only persons who have significantly contributed to the work and the manuscript can be named authors on a paper. These contributions include the idea/concept, design, experiments, evaluation, analysis, drafting or revision of the manuscript, and others. Authors must all have agreed to be named as such and for the manuscript to be submitted. Anyone who has contributed based on the above, but the level of contribution is not significant, may appear in the acknowledgement section of the manuscript.

Acknowledgement of Source

Acknowledgement to other's work being used in the paper must be given at all times. Authors of the paper should give comprehensive credit where it is necessary, by citing the work, they use for supporting their own research.

Accuracy, Originality, and Plagiarism

Authors should describe their work and the results of their work accurately and in full. The level of provided accuracy and detail should be such that a reader can replicate the work independently. Inaccurate, incomplete, fraudulent, and misleading statements are considered unacceptable and unethical. Direct or indirect use of other people's work is not allowed, unless properly cited. Previous works that have influenced the current work should also be cited. Presenting someone else's work as one's own is strictly prohibited and is considered plagiarism.

Data and Material

Authors are encouraged to share their data, software, or other sharable material online, provided copyright and ownership laws surrounding that particular project permit. Authors may also be asked to share such material with the chair(s), and/or reviewers, and must be willing to do so if asked.

ETHICS & MALPRACTICE

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