



**PROCEEDINGS OF THE 5TH
INTERNATIONAL CONFERENCE ON CIVIL,
STRUCTURAL AND TRANSPORTATION
ENGINEERING (ICCSTE'20)**

November 12, 2020 - November 14, 2020 | ~~Niagara Falls, Canada~~ | 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 5th International Conference on Civil, Structural and Transportation Engineering (ICCSTE'20).

ICCSTE'20 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 which are held yearly. These conferences focus on all aspects of civil, structural, and transportation engineering. After the success of the third conference in Canada, ICCSTE will remain in Canada and will host the fourth international conference.

In the fourth meeting of this conference, two 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 25 papers will be presented from professors, students, and researchers across the world.

We thank you for your participation and contribution to the 5th International Conference of Civil, Structural and Transportation Engineering (ICCSTE'20). We wish you a very successful and enjoyable experience.

Dr. Khaled Sennah

*Conference Chair and Proceedings Editor
ICCSTE'20*

ABOUT ICCSTE'20

The 5th International Conference on Civil, Structural and Transportation Engineering (ICCSTE'20) aims to become the leading annual conference in fields related to civil, structural and transportation engineering. The goal of ICCSTE'20 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 yearly. These conferences focus on all aspects of civil, structural and transportation engineering. After successfully holding ICCSTE'16 to ICCSTE'18 in Canada, ICCSTE'20 is hosted in Canada as well this year.

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

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)

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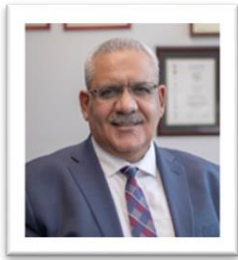

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SCIENTIFIC COMMITTEE

We would like to thank the following for accepting to act as a member of the Scientific Committee for the ICCSTE'20 Congress:

Scientific Committee Chairs



Dr. Khaled Sennah
Ryerson University, Canada
Conference Chair

Scientific Committee Members

- **Dr. Francis Au**, University of Hong Kong, Hong Kong
- **Dr. Ashutosh Bagchi**, Concordia University, Canada
- **Dr. Susan A. Bernal**, University of Leeds, UK
- **Dr. Muntasir Billah**, Lakehead University, Canada
- **Dr. Mohamed Boulfiza**, University of Saskatchewan, Canada
- **Dr. Rifat Bulut**, Oklahoma State University, USA
- **Dr. Sunanda Dissanayake**, Kansas State University, USA
- **Dr. Massimo Fragiaco**, University of L'Aquila, Italy
- **Dr. Christoph Gehlen**, Technische Universität München, Germany

SCIENTIFIC COMMITTEE

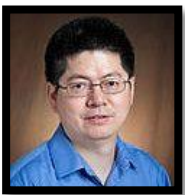
We would like to thank the following for accepting to act as a member of the Scientific Committee for the ICCSTE'20 Congress:

Scientific Committee Members

- **Dr. Rajeshwar Goodary**, Université des Mascareignes, Mauritius
- **Dr. Sean He**, Rensselaer Polytechnic Institute, USA
- **Dr. Jianwei Huang**, Southern Illinois University Edwardsville, USA
- **Dr. Ying Huang**, University of North Dakota, United States
- **Dr. Reza Kianoush**, Ryerson University, Canada
- **Dr. Mohamed Lachemi**, Ryerson University, Canada
- **Dr. Elżbieta Macioszek**, Silesian University of Technology, Poland
- **Dr. Fadi Oudah**, Dalhousie University, Canada
- **Dr. Seunghee Park**, Sungkyunkwan University, South Korea
- **Dr. Bhuwani Paudel**, University of Ottawa, Canada
- **Dr. Gianluca Ranzi**, University of Sydney, Australia
- **Dr. Aleksandar Stevanovic**, University of Pittsburgh, USA
- **Dr. Thanos Tzempelikos**, Purdue University, USA
- **Dr. Sai Vanapalli**, University of Ottawa, Canada
- **Dr. Maged A. Youssef**, University of Western Ontario, Canada

KEYNOTE SPEAKERS

The keynote information for the 5th International Conference on Civil, Structural and Transportation Engineering (ICCSTE'20) is as follows:



[Dr. Mijia Yang](#)
University of North Dakota,
USA



[Dr. Khaled Sennah](#)
Ryerson University, Canada

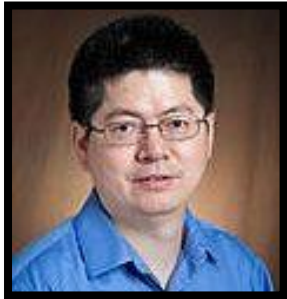


[Dr. Adil Al-Mayah](#)
University of Waterloo,
Canada



[Dr. Maged A. Youssef](#)
University of Western
Ontario, Canada

ICCSTE'20 KEYNOTE SPEAKER



Titles: An Innovative Bridge Inspection Technique through Drive-by Vehicles – A Special Application on Prestress Loss Identification

Dr. Mijia Yang, University of North Dakota, US

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Dr. Yang has practiced teaching and research broadly in structural and transportation engineering. He has taught Steel Design, Dynamic of Structures, and several others for the last 5 years. His research concentrates on impact and blast protection with advanced engineering materials, multi-scale modeling of composite and concrete materials, smart health monitoring in Civil Infrastructure, and self-healing concrete. His representative work included developing a systematic design method for impact barriers, a unified fatigue criterion for uniaxial Polyurethane E-Glass composite laminates, damage detection through guided wave, and a creep design methodology for Epoxy bonded anchor systems. Dr. Yang has participated in several state and national projects during his career, including “Effect of intermediate diaphragms on prestressed concrete bridge girders for over-height truck impacts” and “Testing of window connections specially designed for blast loading”. Dr. Yang also won several national and international awards, including the Philip E. Rollhaus, Jr. Roadway Safety Essay Contest held by Quixote in 2005, the faculty research award at the University of Texas at San Antonio in 2007, the ASCE travel award in 2005, and the ASCE Journal of Aerospace Engineering Outstanding Reviewer award in 2012 and 2018. Dr. Yang is currently serving as the associate editor of Journal of Materials in Civil Engineering, ASCE, and has more than 100 publications, including journal papers, conference papers, and reports in the field of composites, structural testing and characterization.

ICCSTE'20 KEYNOTE LECTURE



Titles: Recent Advances in Accelerated Bridge Replacement
Dr. Khaled Sennah, Ryerson University, Canada

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Dr. Khaled Sennah is a Professor of Structural Engineering and Chair of the Civil Engineering Department at Ryerson University, Toronto, Canada. He obtained his B.Sc. and M.Sc. degrees in civil engineering from Alexandria University of Egypt in 1985 and 1990, respectively, and his Ph.D. in structural engineering from University of Windsor in 1998. Dr. Sennah, core area of expertise includes design, evaluation and rehabilitation of bridges on which he has more than 260 publications and supervised over 75 graduate students. He has demonstrated numerous evidences of impact and contribution to economical design and sustainable construction that led to field applications and standards. In collaboration with Ontario Ministry of Transportation (MTO) and industry partners in USA, Canada and Germany, his research team conducted innovative research including (i) the development of prefabricated bridge elements and connection technologies to accelerate bridge construction, (ii) development of crashworthy and cost-effective, bridge barrier and deck slabs reinforced with glass fibre reinforced polymer (GFRP) bars for sustainable construction and (iii) cost-effective and accelerated FRP repair strategy to bridge girders damaged by vehicle impact.

For more information please visit:

<https://iccste.com/program>

ICCSTE'20 KEYNOTE LECTURE



Titles: An Emerging Paradigm for the Integration of Mechanics and Imaging for Ma

terial Characterization

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

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Dr. Adil Al-Mayah has a unique blend of work experience in both the engineering and medical fields, resulting in the licensing of ground-breaking innovations in both areas. Professor Al-Mayah's expertise includes material characterizations, composite materials mechanics, image registration, biomechanical characterization of soft tissues, and cancer mechanics. He is the director of the Imaging-Mechanics Integration laboratory (IMI Lab) at the University of Waterloo that serves researchers from a wide range of fields including civil and mechanical engineering, environmental, earth science, and building science.

ICCSTE'20 KEYNOTE LECTURE



Titles: Objective and Performance-Based Design in Structural Fire Engineering
[Dr. Maged A. Youssef, University of Western Ontario, Canada](#)

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Dr. Maged A. Youssef is a Professor of Civil and Environmental Engineering at the University of Western Ontario. He received his PhD from McMaster University, Canada, in 2000, and then joined Murray Engineering P.C., New York City, as senior structural engineer. Dr. Youssef joined Western in August of 2002. He was promoted to the rank of Associate Professor in 2009 and to the rank of Professor in 2015. He also acted as the Associate Chair for Undergraduate Affairs from 2012 to 2015. Dr. Youssef received the 2007 R. Mohan Mathur Award for Excellence in Teaching. In addition to university teaching, he is actively involved in professional development of practicing engineers. Dr. Youssef's research focus on improving safety of our civil structures to natural and man-made disasters. His research covers areas in Earthquake Engineering, Structural Fire Engineering, and Smart Materials and Systems. He shared in publishing three standards. He also published 2 book chapters, 57 journal articles, 55 conference papers, and several technical reports. He presented his research as a keynote/expert speaker in national and international conferences. He was also invited to present his research at Tohoku University (Japan), Kyoto University (Japan), and South China University of Technology (China). Dr. Youssef supervised 12 PhD students, and 8 Master students to graduation. He is currently supervising 3 PhD students and 2 Master Students. He is an active member of the professional Committees of the Canadian Society of Civil Engineers and the American Concrete Institute. He is licenced professional engineer and is actively involved in structural engineering consulting activities.

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Earthquake and Structural Engineering

Title: Rate-Dependent Cyclic Lateral Load Test on a Single Pile in Sand

Authors: Naba Raj Shrestha, Masato Saitoh, Alok Kumer Saha, Chandra Shekhar Goit

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Title: Spectral Element Method for Damage Localization in Non-Uniform Structures with Parametric Uncertainty

Authors: Purushottam Kumar Chaudhary, Kumar Anjneya, Koushik Roy

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Title: A Model-Based Method for Damage Localization and Qualification in a Cable-Stayed Bridge

Authors: Mohammad Alikhani Dehaghi, Maryam Montazeri, Gholamreza Ghodrati Amiri, Ali Zare Hosseinzadeh

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Title: Simulation of Spatially Varying Ground Motions at Site with Stochastic Soil Layers: A Case Study in Nw Algeria

Authors: Karim Afif Chaouch

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Title: Seismic Indicators Based Earthquake Magnitude Prediction for Bangladesh Using Machine Learning Algorithms

Authors: Md Nafizul Islam, Md Abu Sufian Khan, Muhaimin Bin Munir, Md Abul Kalam Azad, Tanvir Mustafy

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Title: Evacuation Planning In Natural Disaster Using Multi Objective Optimization Approach: The Rohingya Refugee Crisis in Bangladesh

Authors: Md. Ridwanur Rahman, Samia Zakir Sarothi, Tanvir Mustafy

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Geotechnical Engineering

Title: Earthquake Induced Liquefaction Potential of Paste Tailings: Shaking Table Results

Authors: Fahad Alshawmar, Mamadou Fall

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Title: Mechanical Properties and Behavior of Early-Age Fiber-Reinforced Cemented Paste Backfill

Authors: Iarley Loan Sampaio Libos, Liang Cui

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Title: Performance of Pile Cap Foundation with Respect to Cap Thickness

Authors: Soukayna El Hammouli, Adel Hanna, Lan Lin, Mahmoud Khalifa

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Title: Vibration Induced By Rapid Impact Compaction on Granular Soils

Authors: Omar El Khaled, Emmanouil Spyropoulos, Omar Maalej

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Title: Challenges of Railway Embankments Remediation

Authors: Mario Bačić, Antun Juzbašić

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Advanced Structural Materials

Title: Fresh and Hardened Properties of Engineered Geopolymer Composite with MgO

Authors: M. A. Hossain, K. M. A. Hossain, T. Manzur, M. J. Hasan, D. Sood

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Title: Properties of Lightweight Self-consolidating Fibre Reinforced Concrete

Authors: K.M. A. Hossain, I. N. Celasun, K.M. Y. Julkarnine, M.A. Hossain

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Title: Mechanical Properties Of Geopolymer Concrete: Statistical Analysis And Prediction Models

Authors: Ahmed Hassan, M Talha Junaid, Samer Baraka

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Title: Finite Element Analysis of Built-Up T Stub under Blast Loading

Authors: Sanjida Akter, Abdullah Al Azad Mamun, Samia Zakir Sarothi, Tanvir Mustafy

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Title: Partial Parameter Analysis of the Stability of Small and Medium Span Steel-concrete Composite Bridges

Authors: Haoqi Li

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Title: Non-Conventional Building Technologies as a Panacea Against the Covid-19 Pandemic

Authors: Bruno Tayo, Jeffrey Mahachi, Benson Wekesa

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New Technologies, Methods and Techniques in Civil Engineering

Title: Performance of Steel I-Beams Strengthened by Fastening Hybrid FRP Strips

Authors: Omnia AbouEl-Hamd, Amr Sweedan, Bilal El-Ariss

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Title: Application of Collaborative Management NEC and DAB to Improve Communication and Integration in Multi-Family Building Projects

Authors: Mario Aragon Gonzales, Jair Mamani Zevallos, Jorge de la Torre

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Title: Numerical Studies on the Effects of Mooring Configuration and line Diameter on the Restoring Behaviour of a Turret- Moored FPSO

Authors: Idris Ahmed Ja'e, Montasir Osman Ahmed Ali and Anurag Yenduri

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Title: Restoration modelling of Water Network under seismic hazard: Role of Electrical and Power Network

Authors: Ghazanfar Ali Anwar, You Dong

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Title: Railway Tracks Detection of Railways Based On Computer Vision Technique and Gnss Data

Authors: Adham, Mahmoud, Mohamed, Mohamed G. , El Shazly, Adel

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Title: Early-Age Strength and Workability of Basalt Fiber Reinforced Concrete Made with Recycled Aggregates – A Pilot Study

Authors: Shahrukh Shoaib, Hilal El-Hassan, Bilal El-Ariss, Tamer El Maaddawy

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Title: Development of a Life Cycle Inventory Dataset for Recycled Concrete Aggregates in the City of Abu Dhabi

Authors: Mohammed Alzard, Hilal El-Hassan, Tamer El Maaddawy

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Title: Probabilistic Inference Approach for Predicting Concrete Compressive Strength - A Bayesian Network Algorithm

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

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Title: Simulation of Water Supply in The City of Lima For the Period 2020-2050 Using the WEAP Platform

Authors: José Reynaga, Jorge Cornelio, Manuel Collas

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Title: Evaluating the Economic Benefits of Non-Motorized Transport Infrastructure (NMT) for Sustainable Development Case Study: Non-Motorized Transport Pilot Scheme for Kampala City

Authors: Joseph Kigozi

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Title: Study of Delays to Evaluate the Sustainability over Time of Solutions for Urban Intersections

Authors: F. Medina, A. Burga, A. Bravo

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Bridge Engineering

Title: Development of Graphical Computer Software for the Design of Composite Steel I-Girder Bridges per the Canadian Highway Bridge Design Code

Authors: Ahmed Diab, Khaled Sennah

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Title: Simplified Equations for Moment and Shear in Bridge Girders Resulting from AASHTO Truck Loading

Authors: Seyedshayan Barary, Ahmed Diab, Khaled Sennah

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JOURNAL SPECIAL ISSUES

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

The publication fee will be waived for papers that win the best paper award. Other attendees will receive a 25% discount towards the publication fee of the journal.

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.

Users are allowed to read, download, copy, distribute, print, search, or link to the full texts of the articles in this journal without asking prior permission from the publisher or the author. This is in accordance with the BOAI definition of open access.

All published papers of IJCI will be submitted to Google Scholar, Microsoft Academic Search, Open J-Gate, Mendeley, Index Copernicus International, Academic Index, Mendeley, Primo Central, and Genomics JournalSeek for possible indexing. 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.

ICCSTE'21

The 6th International Conference on Civil, Structural and Transportation Engineering (ICCSTE'21) will be held on May 17 - 19, 2021 in Niagara Falls, Canada.



For inquiries and to obtain further information on the congress, please visit the [website](http://www.2021.iccste.com) or call us at:

+1-613-834-9999

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ETHICS & MALPRACTICE

Publication Ethics and Publication Malpractice Statement

The following statement is mainly based on the [Code of Conduct and Best-Practice Guidelines for Journal Editors](#) (Committee on Publication Ethics, 2011).

Scientific Committee

Scientific Committee

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 below.

[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.

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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.

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.

Thoroughness

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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

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.

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.

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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.

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ETHICS & MALPRACTICE

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Authors must notify the chair(s) at the time of submission, if any factor outside the scope of the research has influenced any step of the work and manuscript writing. Examples of such factors include but are not limited to funding, grants, advisory and consultancy, stock ownership, current or past employment, and memberships, among others. All funding sources should be disclosed in the manuscript.

Animal and Human Subjects

Works involving human and/or animal subjects must ensure that the work has abided by institutional guidelines, and pre-approved by required bodies. Moreover, consent must be acquired from participants, and privacy of subjects must be ensured. All of the above must be specified with clear statements in the manuscript.

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If an author identifies a major error in a published paper, he/she must immediately identify the publisher. Regardless of whether a significant error is reported by the authors of the work or other readers, authors are obligated to take the necessary steps to correct the issue. It is decided on a case-by-case basis whether an erratum will be submitted to notify future readers of the error and correction, or whether the paper will be retracted.

Unethical/plagiarism issues mostly result in a retraction, while unintended mistakes will mostly result in the publication of an erratum.

ETHICS & MALPRACTICE

Publisher

Errata and Retractions

The publisher takes the necessary steps to prevent mistakes, academic and scientific misconduct, and unethical behavior, both intended and unintended. When mistakes are reported, the publisher works with chair(s) and authors to publish an erratum clarifying the issue. In cases where the mistakes are severe and significant, the paper might be retracted. If unethical behavior, plagiarism, academic and scientific misconduct, or other such activities are proven to have taken place by an author or authors, the publisher will retract the paper.

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Schedule

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