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 **C**ivil, **S**tructural, and **E**nvironmental **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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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

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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

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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

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PLENARY/KEYNOTE SPEAKERS

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

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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

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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 Geo-technology. 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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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

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Geochemical Effects of Hydrogen Storage in Unlined Rock Caverns: A Modelling Study Using Limestone as the Host Rock
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Underground Hydrogen Storage for Cleaner and Sustainable Future
Authors: Chatura Dodangoda, Ranjith PG, Asadul Haque

Assessment of rutting and resilient behaviour in unbound material depending on initial state
Authors: Hoang Hai Huynh, Liuxin Chen, Jayantha Kodikara

Optimizing In-Situ Mineral Recovery: Sustainable Rock Preconditioning with Slow-Releasing Energy Material Agents
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Towards a greener future: Geopolymers in sustainable construction and building climate management
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Development and Validation of a Python-Based Trilinear Analysis Software for RC Beams with CFRP Strengthening
Authors: SALMAN ALSHAMRANI

Influence of CFRP Thickness, Concrete Strength, and Reinforcement Detailing on the Cyclic Performance of RC Beams
Authors: Salman Alshamrani, Ali Alqani

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International ASET Inc. would like to thank the following sponsors for their support of CSEE'25:

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JOURNAL PUBLICATION

Selected articles from the congress will be published in one of the following journals after a secondary review process:

IJCI - International Journal of Civil Infrastructureg
IJEPR - Journal of Environmental Pollution and Remediation

The publication fee will be waived for papers that win the best paper award.

These journals have 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 and IJEPR will be submitted to Google Scholar, Semantic Scholar and Mendeley for 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.

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CSEE 2026

The 11th World Congress on Civil, Structural, and Environmental Engineering (CSEE 2026) will be held on 16-18 April, 2026 in Paris, France

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For inquiries and to obtain further information on the congress, please visit the website

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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.

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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.

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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.

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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.

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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.

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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.

Dual Submissions

Submitting a manuscript to more than one venue (conference, journal, etc) simultaneously is not allowed. Presenting previously published work to be considered as a new submission, without a significant new interpretation or analysis, is prohibited.

Conflicts of Interest

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.

Hazardous Material

It should clearly be identified in the manuscripts if the works have involved hazardous chemicals and material, or devices that can be harmful.

Reporting of Mistakes, Errata, and Retractions

If an author identifies a major error in a published paper, he/she must immediately inform 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.

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