



# TANN<sup>25</sup>

## PROCEEDINGS OF THE 9TH INTERNATIONAL CONFERENCE ON THEORETICAL AND APPLIED NANOSCIENCE AND NANOTECHNOLOGY (TANN 2025)

June 10, 2025 - June 12, 2025 | Chestnut Conference Centre  
University of Toronto, Toronto, Canada

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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 9<sup>th</sup> International Conference on Theoretical and Applied Nanoscience and Nanotechnology (TANN 2025).**

TANN 2025 is aimed to become one of the leading international annual conferences in the fields related to nanoscience and nanotechnology. 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.

TANN is a series of international conferences held yearly. These conferences focus on all aspects of Theoretical and Applied Nanoscience and Nanotechnology.

At the ninth edition of this conference, three plenary speakers, three keynote speakers and ten invited 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 27 papers will be presented from professors, students, and researchers across the world.

We thank you for your participation and contribution to the 9<sup>th</sup> International Conference of Theoretical and Applied Nanoscience and Nanotechnology (TANN 2025). We wish you a very successful and enjoyable experience.

**Prof. Jin Zhang**

University of Western Ontario, Canada

*Conference Chair*

*TANN 2025*

**Assoc. Prof. Amirkianoosh Kiani**

Ontario Tech University, Canada

*Conference Chair*

*TANN 2025*

**Prof. Mohsen Rahmani**

Nottingham Trent University, UK

*Conference Co-Chair*

*TANN 2025*

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# ABOUT TANN 2025

**The 9<sup>th</sup> International Conference of Theoretical and Applied Nanoscience and Nanotechnology (TANN 2025) aims to become the leading annual conference in fields related to nanoscience and nanotechnology.** The goal of TANN 2025 is to gather scholars from all over the world to present advances in the fields related to nanoscience and nanotechnology 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.

TANN is a series of international conferences held yearly. These conferences focus on all aspects of Theoretical and Applied Nanoscience and Nanotechnology. After successfully holding TANN'17 to TANN'24 in Canada, TANN 2025 is hosted in Imperial College London Conference Center London, United Kingdom as well this year. TANN 2025 is going to be held in a hybrid format, i.e. in person as well as online.

**TANN** is an acronym for **T**heoretical, **A**ppplied, **N**anoscience, and **N**anotechnology.

All papers were peer-reviewed

The congress 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)

Google Scholar

Scopus

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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 TANN 2025 Conference:



**Prof. Jin Zhang**  
University of Western  
Ontario, Canada  
Conference Chair



**Assoc. Prof. Amirkianoosh Kiani**  
Ontario Tech University,  
Canada  
Conference Chair



**Prof. Mohsen Rahmani**  
Nottingham Trent University, UK  
Conference Co-Chair

## Scientific Committee Members

- **Dr. Daolun Chen**, Toronto Metropolitan University (formerly Ryerson University), Canada
- **Dr. Jinju Chen**, Newcastle University, UK
- **Dr. Byoung-Chul Choi**, University of Victoria, Canada
- **Dr. Erik Díaz Cervantes**, Universidad de Guanajuato, Mexico
- **Dr. Tohid Didar**, McMaster University, Canada
- **Dr. Bernadeta Dobosz**, Adam Mickiewicz University, Poland

# SCIENTIFIC COMMITTEE

## Scientific Committee Members

- **Dr. Matiar Howlader**, McMaster University, Canada
- **Dr. Shahram Karimi**, Lambton College of Applied Arts and Technology, Canada
- **Dr. Ghada I. Koleilat**, Dalhousie University, Canada
- **Dr. Harri Lipsanen**, Aalto University, Finland
- **Dr. Kuldeep Mahato**, University of California, San Diego, USA
- **Dr. Hande Yöndemli**, Selcuk University, Turkey
- **Dr. Dejian Zhou**, Leeds University, UK

# PLENARY & KEYNOTE SPEAKERS

The Plenary & keynote information for the 9th International Conference of Theoretical and Applied Nanoscience and Nanotechnology (TANN 2025) is as follows:

## Plenary Speakers



[Prof. Rupert Oulton](#)  
Imperial College London,  
UK



[Prof. Carole Perry](#)  
Nottingham Trent University,  
UK



[Prof. Ian White](#)  
University of Bath, UK

## Keynote Speakers



[Prof. Igor Aharonivich](#)  
University of Technology  
Sydney, Australia



[Prof. Mohsen Rahmani](#)  
Nottingham Trent  
University, UK



[Dr. Rachel Won](#)  
Nature Photonics, UK

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## PLENARY SPEAKER



**Titles:** Exploiting Nanoscale Optics Fields to Control Light-Matter Interactions with Applications Spanning Quantum Optics to Photo-Catalysis

Prof. Rupert Oulton, Imperial College London, UK

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Rupert Oulton is a Professor of Physics at Imperial College London, and Deputy Head of the Department of Physics. Having studied for a PhD in Physics at Imperial, he moved to UC Berkeley to research Nanophotonics in the group of Xiang Zhang. Here, he demonstrated some of the first lasers smaller than the diffraction limit of light using plasmonics to create tightly localized optical fields. Returning to Imperial after 5 years in California, Prof Oulton won a prestigious EPSRC Fellowship and Leverhulme Lectureship. Prof Oulton's research now focusses on the physics and engineering of light matter interactions using nanophotonics with applications in quantum optics, photo catalysis and nonlinear optics.



## PLENARY SPEAKER



**Titles:** Biology as Inspiration for Nanoscale Materials Property Tuning

Prof. Carole Perry, Nottingham Trent University, UK

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Carole Perry obtained her undergraduate and DPhil research degrees in chemistry from the University of Oxford, UK where she also held an independent junior research fellowship. She has held permanent academic positions at Brunel University and Nottingham Trent University where she is currently a distinguished research professor. She has held fellowships/ visiting professorships in Israel (Weizmann Institute), France (Université Pierre et Marie Curie), Germany (KIT) and USA (Suny, Buffalo and Radcliffe Institute, Harvard). Her research interests lie at the interface between biology, chemistry and physics.

## PLENARY SPEAKER



**Titles:** Trends in Quantum Networking  
using Continuous Variable Modulation  
Techniques  
Prof. Ian White, University of Bath, UK

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an White was educated at the Belfast Royal Academy and Jesus College, Cambridge, where he gained his BA and PhD degrees in 1980 and 1984.[6] He was then appointed a research fellow and assistant lecturer at the University of Cambridge before becoming professor of physics at the University of Bath in 1990. In 1996 he moved to the University of Bristol and became head of the Department of Electrical and Electronic Engineering in 1998, before returning to the University of Cambridge in October 2001.

While in Cambridge he served in the roles of master of Jesus College, head of the School of Technology, and pro-vice-chancellor for institutional affairs. He was a key member of the UK-China Global Issues Dialogue Centre at Cambridge, which was funded by Huawei and active in the 2010s. Critics attributed White's involvement with the centre as a contributing factor to Cambridge's silence over the Chinese government's increasing encroachment on academic freedom in the late 2010s.[7][8]

In 2018, White retired from the mastership of Jesus College to become vice-chancellor of the University of Bath. He accepted a salary that was about half of his predecessor's, a move praised by student and staff unions as a positive development in tackling excessive pay gaps in academia.[9]

## KEYNOTE SPEAKER



**Titles:** Hexagonal Boron Nitride - An Intriguing Platform For On Chip Quantum Technologies

Prof. Igor Aharonovich, University of Technology Sydney, Australia

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Professor Igor Aharonovich received his PhD in 2010 from the University of Melbourne and spent two years in Harvard as a postdoctoral researcher in the group of Prof Evelyn Hu. In 2013 Igor returned to Australia and joined the University of Technology Sydney (UTS) where is currently a full Professor and the UTS node director of the ARC Centre of Excellence for Transformative Meta-Optical Systems.

Igor's group is focusing on exploring single emitters in wide band gap semiconductors, such as diamond and more recently hexagonal boron nitride. His group is also interested in innovative approaches for nanofabrication of nanophotonics devices for quantum circuitry. But most importantly – Igor's group has members from 11 different countries which forms a vibrant and a dynamic environment.

Igor received numerous international awards and recognitions including the 2017 Pawsey medal from the Australian Academy of Science, 2019 CN Yang Award – honors young researchers with prominent research achievements in physics in the Asia Pacific region and the 2020 Kavli foundation early career lectureship in materials science. He was also elected as a fellow of OPTICA (class 2021) and SPIE (2023).

## KEYNOTE SPEAKER



**Titles:** Engineered Nanoscale Particles:  
Building Blocks of Tomorrow's Optical  
Technologies

Prof. Mohsen Rahmani, Nottingham Trent  
University, UK

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Mohsen Rahmani is a professor of optics and photonics and the leader of the advanced optics and Photonics laboratory at Nottingham Trent University (NTU), in the UK. He obtained his PhD from the National University of Singapore in 2013, followed by a postdoc fellowship at Imperial College London and the Australian Research Council Early Career Fellowship at the Australian National University. In 2020, he joined NTU via the prestigious Royal Society Wolfson Fellowship. Shortly after moving to the UK, he was also awarded the UK Research and Innovation Future Leaders Fellowship. Recently, he has secured an ERC Consolidator Grant. His research activities span over light-matter interactions with nanometre-scale particles for applications in flat optics, near-infrared imaging, bio-sensing, and reconfigurable optics. He is the recipient of several prestigious awards and prizes, including the Australian Eureka Prize (Australian Oscar of Science), the Early Career Medal from the International Union of Pure and Applied Physics, and the Australian Optical Society Geoff Opat Award. Professor Rahmani has delivered 40+ invited talks, seminars and keynotes at international conferences and has published more than 80 peer-reviewed journal papers (H-index=43). He is the past chair of the IEEE Nanotechnology Chapter across the UK and Ireland section and a distinguished lecturer for IEEE Nanotechnology Council 2024.

## KEYNOTE SPEAKER



**Titles:** Publishing in Nature Journals

Dr. Rachel Won, Nature Photonics, UK

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Rachel Won is an International Editor of Nature Photonics. She joined the journal in June 2006 as one of the four Founding Editors. Before that, Rachel worked for Aston University's Business Partnership Unit in Birmingham, UK, as a Medici Fellow, commercializing the research output of the university, particularly that of photonics research. She obtained her PhD in microwave photonics and nonlinear optics as a member of Aston's Photonics Research Group. She worked for Philips Optical Storage in Singapore as an Optics Engineer after completing her Master's degree study in Nanyang Technological University of Singapore doing research in optical fibre sensing. She holds a Bachelor's degree from the National University of Malaysia. She is a Fellow of OPTICA and SPIE (the International Society of Optics and Photonics).

# LIST OF PAPERS

The following papers were presented at the 9th International Conference on Theoretical and Applied Nanoscience and Nanotechnology (TANN 2025)

## Plenary, Keynote and Invited Speakers

### [Engineered Nanoscale Particles: Building Blocks of Tomorrow's Optical Technologies](#)

Authors: Prof. Mohsen Rahmani

### [Metasurfaces for Infrared Imaging Applications](#)

Authors: Assoc. Prof. Lei Xu

### [Tumor Transparency Imaging of Nanotherapeutic Agents in Tumor Microenvironment](#)

Authors: Prof. Joon Myoung Song

### [Flexible Carbon Nanotube Based Sensing Applications](#)

Authors: Assoc. Prof. Gaurav Sapra

# LIST OF PAPERS

## Nanomaterials & Nanodevices: Characterization and Application

### [Study of Electric Field Enhancement in Arrow-Pentagonal HfO<sub>2</sub>/GaN/Au Multilayer Nanoantenna for Thermal Energy Harvesting](#)

Authors: Chayanika Baishya, Amarnath Kumar, Sisir Kumar Nayak, Harshal B. Nemade

### [Scientific Mapping of Nanobiotechnology and Nanomedicine: A Bibliometric Approach](#)

Authors: S. Jonathan R.-F., Santiago M. Benites, Magaly De La Cruz-Noriega, Renny Nazario-Naveda, Daniel Delfin Narciso

### [Nanotechnology and Thermal Storage: A Bibliometric Study on the Impact of Nanoparticles on Energy Efficiency](#)

Authors: S. Jonathan R.-F.<sup>1\*</sup>, Santiago M. Benites, Magaly De La Cruz-Noriega, Renny Nazario-Naveda, Daniel DelfinNarciso

### [Nanotechnology in Agriculture: Technologies to Improve Agricultural Productivity and Address Environmental Challenges.](#)

Authors: S. Jonathan R.-F., Santiago M. Benites, Magaly De La Cruz-Noriega, Renny Nazario-Naveda, Daniel Delfin-Narciso

### [Scientific Mapping of Nanotechnology in Arsenic Mitigation in Agricultural Soils: A Bibliometric Analysis](#)

Authors: S. Jonathan R.-F., Santiago M. Benites, Magaly De La Cruz-Noriega, Renny Nazario-Naveda, Daniel Delfin-Narciso

### [Research Trends and Networks on Nanotechnology and Ethics: A Bibliometric Approach](#)

Authors: Santiago M. Benites, Magaly De La Cruz-Noriega, Renny Nazario-Naveda, S. Jonathan R.-F., Daniel Delfin-Narciso

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## Nanomaterials & Nanodevices: Characterization and Application

### [The Effects of Polymer-coated Gold Nanoparticles Containing Teriflunomide on Human Glioblastoma Cell-line](#)

Authors: Fargol Afzal, Reyhaneh Varshochian, Arash Mahboubi

### [Purcell Enhanced Perovskite Nanocrystals for Ionizing Radiation Detection](#)

Authors: Michal Makowski, Wenzheng Ye, Dominik Kowal, Francesco Maddalena, Somnath Mahato, Yudhistira T. Amrillah, Weronika Zajac, Marcin, E. Witkowski, Konrad J. Drozdowski, Nathaniel, Cuong Dang, Joanna Cybinska, Winicjusz Drozdowski, Ferry A. A. Nugroho, Christophe Dujardin, Liang Jie Wong, and Muhammad Danang Birowosuto

### [Evaluating Model-Free Methods in the Catalytic Pyrolysis of HDPE](#)

Authors: Abdulrahman Almithn, Ibrahim Dubdub

### [Synthesis and stabilization of ultra-narrow direct bandgap nanoparticles of a-Sn on Si through a CMOS compatible process](#)

Authors: Tiziano Bertoli, Elena Stellino, Francesco Minati, Camilla Belloni, Fabrizio Palma, Emanuele Bosco, Michele Back, Demetrio Logoteta, Silvano Battisti, Alessandro Nucara, Naurang Lal Saini, Pietro Riello, Fernanda Irrera

### [Industrial Wastewater Treatment by using Nanocrystalline Photo-catalysts](#)

Authors: Mohamed Ibrahim Mohamed AbdElwahab Kolkila, Wagih Abdel Alim Sayed Ahmed Sadik, Abdel Ghaffar Maghraby El-Demerdash

### [Magnesium, Sulphate and Chloride Ions Separation via Nanofiltration Membrane](#)

Authors: Rasha Amer Hajarat

### [Real-Time Subcellular Imaging of Plant Biomolecules by Near Infrared Nanosensors](#)

Authors: Juan Pablo Giraldo



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## Nanomaterials & Nanodevices: Characterization and Application

### [Exploring Nanostructured Complex Oxides Produced via Cluster-Assembling for Enhanced Dielectrics Applications](#)

Authors: Sidra Ibadat, Emilliano Bonera, Alessandro Caselli, Alessandro Podesta, Paolo Piseri

### [Novel CuO/ZnO/ZnAl Layered Double Hydroxide Synthesis and Its Preliminary Photocatalytic Test Toward Removal Of Methyl Orange Dye](#)

Authors: Zainab Hussaina Ibrahim, Zulkarnain Zainal, Lim Hong Ngee, Adila Mohamad Jaafar, Mohd Haniff Wahid

### [Nox Entrapping Onto Hybrid Ionic Liquid-Nanocrystalline Nay and Barium Oxide Decorated Carbon Nanotubes: Application to Nitrocellulose Stability](#)

Authors: Belkhiri Samir, Boulkadid Moulai Karim, Fertassi Amina Meriem, Toudjine Sabri, Tarchoun Ahmed Fouzi and Mekhalif Zineb

### [Bibliometric Analysis of Nanotechnological Optical Sensors for the Detection of Environmental Pollutants](#)

Authors: Santiago M. Benites, Magaly De La Cruz-Noriega, Renny Nazario-Naveda, S. Jonathan R.-F., Daniel DelfinNarciso

### [Silver-Titania Nanocomposites As Raman Nanothermometer And Nanoheater For Photothermal Applications](#)

Authors: Leonardo Bottacin, Veronica Zani, Francesca Tajoli, Roberto Pilot, Silvia Gross, Raffaella Signorini

### [Exploration Of PV Potential Of \$Sb\_2\(Sxse1-X\)3/Znse\$ Hetero-Junction Solar Cells Via Absorber Layer Engineering](#)

Authors: Himanshu, D. Mewara, Harpreet kaur, A. Somvanshi, and M.S. Dhaka

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## Posters Session

### Fluorinated Electrolyte For High-Voltage Lithium-Ion/Sulfur Chemistry With High Energy Density

Authors: Gebregziabher Brhane Berhe, Wei-Nien Su, Bing Joe Hwang

### Low Iridium Deposition on Dendritic Gold for Enhanced Oxygen Evolution in Water Splitting

Authors: Ying-Huang Lai

### Study of Nano-Peptides or Peptide Combination Obtained From Soy Protein Hydrolysate with Anti-Inflammatory Activity in RAW 264.7 Macrophages

Authors: Wen-Dee Chiang, Zih-Yi You

### Sol-Gel Preparation and Photoluminescence Properties of Eu and Dy Co-Doped $Gd_2O_3$ Nanophosphors

Authors: Lay Gaik Teoh, Chien-Yu Ke

### Anti-Oxidative and Anti-Senescence Effects of Green Tea-Derived Exosome-Like Nanoparticles (Gtdens) In Skin by Inhibiting the Phosphorylation of MAPK14 (P38)

Authors: Wooram Choi, Jeong Hun Cho, Sang Hee Park, Dong Seon Kim, Hwa Pyoung Lee, Yong Deog Hong, Hyoung-June Kim, Jongsung Lee, Jae Youl Cho

### Laser-Induced Tuning of Hybrid Phase-change Silicon Metasurfaces for Effective Optical Modulation

Authors: Amin Zamani, Gabriel Sanderson, Ze Zheng, Sara Moujdi, Mohammadhossein Momtazpour, Christopher Mellor, Lu Zhang, Qiwei Miao, Wending Zhang, Zakaria Mansouri, Cuifeng Ying, Lei Xu, Mohsen Rahmani

### Realising Logic Gates for Binary Computing via Fractal Resonators Metasurfaces at Terahertz Band

Authors: Mohammadhossein Momtazpour, Lei Xu, Dou Feng, Anjali, Dominic Craske, Costas Tsakonas, Cuifeng Ying, Demosthenes Koutsogeorgis, Miguel Navarro-Cía, and Mohsen Rahmani

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## Nanomedical Drug Delivery and Tissue Engineering

[Development and Durability of PLA Composites with HAp Nanoparticles as an Additions for Improved Bone Fracture Fixation Rods and Screws](#)

**Authors: Zaid Abdulhamid Alhulaybi Albin Zaid**

# SPONSORS

International ASET Inc. would like to thank the following sponsors for their support of TANN 2025:



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# JOURNAL PUBLICATION

**Selected articles from the conference will be published in the International Journal of Theoretical and Applied Nanotechnology (IJTAN) 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 IJTAN 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:  
IJTAN: <https://ijtan.avestia.com>

# TANN 2025

The 10<sup>th</sup> International Conference of Theoretical and Applied Nanoscience and Nanotechnology (TANN 2025) will be held in June, 2026, The location will be announced soon.



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

You can also email [info@tannconference.com](mailto:info@tannconference.com) or call us  
at: +1-613-834-9999

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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.

# 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.

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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

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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.

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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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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.

# ETHICS & MALPRACTICE

## Publisher

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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:***

This conference proceeding accompanies the conference, meaning a new proceedings will be published every year for the corresponding annual conference of this series.

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