



ICFFTS
2023

**4th International Conference On Fluid
Flow And Thermal Science (ICFFTS 2023)**

December 7 - 9, 2023 | Lisbon, Portugal

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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 4th International Conference on Fluid Flow and Thermal Science (ICFFTS 2023).

The goal of ICFFTS 2023 is to provide a space for scholars from all over the world to present advances in the relevant fields 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.

In the third meeting of this conference, two plenary speakers and three 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 19 papers will be presented from professors, students, and researchers across the world.

We thank you for your participation and contribution to the 4th International Conference on Fluid Flow and Thermal Science (ICFFTS 2023). We wish you a very successful and enjoyable experience.

Dr. Boguslaw Kruczek
University of Ottawa, Canada
Conference Chair
ICFFTS 2023

Dr. Wael H. Ahmed
University of Guelph, Canada
Conference Chair
ICFFTS 2023

Dr. Sohel Murshed
University of Lisbon, Portugal
Conference Local Chair
ICFFTS 2023

ABOUT ICFFTS 2023

The 4th International Conference on Fluid Flow and Thermal Science (ICFFTS 2023) aims to become the leading conference in fields related to fluid flow and heat transfer. The goal of ICFFTS 2023 is to gather scholars from all over the world to present advances in the relevant fields 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.

ICFFTS 2023 is an international conference will be held yearly. This conference focus on all aspects Fluid Flow and Thermal Science. ICFFTS 2023 Will be held this year as a virtual conference

ICFFTS 2023 is an acronym for International Conference, on Fluid Flow and Heat Transfer.

- The proceedings are published in Ottawa, Canada.
- All papers were peer-reviewed
- The conference 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 [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 ICFFTS 2023 Conference:



Dr. Boguslaw Kruczek

University of Ottawa, Canada
Conference Chair



Dr. Wael H. Ahmed

University of Guelph, Canada
Conference Chair



Dr. Sohel Murshed

University of Lisbon, Portugal
Conference Local Chair

Scientific Committee Members

- **Dr. Chamil Abeykoon**, The University of Manchester, UK
- **Dr. Qasem Al-Mdallal**, UAE University, UAE
- **Dr. Maryam Ghodrat**, University of New South Wales, Australia
- **Dr. Hector Gomez**, Purdue University, USA
- **Dr. Faik Hamad**, Teesside University, UK
- **Dr. Wei-Xi Huang**, Tsinghua University, China
- **Dr. Saud A. Khashan**, Jordan University of Science and Technology, Jordan
- **Dr. Yasser Mahmoudi Larimi**, University of Manchester, UK
- **Dr. Ming-Chang Lu**, National Taiwan University, Taiwan
- **Dr. Zhenyu Liu**, Shanghai Jiao Tong University, China
- **Dr. Sendhil Kumar Natarajan**, National Institute of Technology Puducherry, India
- **Dr. Gerardo Maria Mauro**, Università degli studi del Sannio, Italy
- **Dr. Amir Hossein Mohammadi**, University of KwaZulu-Natal, South Africa
- **Dr. Sébastien Poncet**, Sherbrooke University, Canada
- **Dr. Subrata Roy**, University of Florida, USA
- **Dr. Ziad Saghir**, Toronto Metropolitan University (formerly Ryerson University), Canada
- **Dr. Mostafa Safdari Shadloo**, INSA Rouen Normandie - CORIA, France
- **Dr. Sergei Sazhin**, University of Brighton, UK

KEYNOTE SPEAKERS

The keynote information for the 4th International Conference on Fluid Flow and Thermal Science (ICFFTS 2023) is as follows:

Plenary Speakers

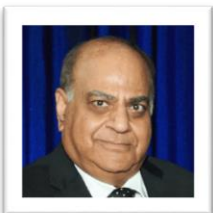


Dr. Sanjeev Chandra
University of Toronto , Canada



Dr. Tassos Karayiannis
Brunel University London, UK

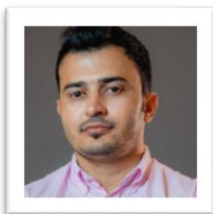
Keynote Speakers



Dr. Yogesh Jaluria
The State University of
New Jersey, USA



**Dr. Gerardo Maria
Mauro**
Università degli Studi
del Sannio, Italy



Dr. Zafar Said
University of Sharjah, UAE

KEYNOTE LECTURE



Title: Design, Fabrication And Testing Of Topologically Optimized Heat Sinks For Electronic Cooling

Dr. Sanjeev Chandra, University of Toronto , Canada

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Sanjeev Chandra is a Professor in the Department of Mechanical and Industrial Engineering (MIE) at the University of Toronto, which he joined in 1990 after receiving his Ph.D. from Cornell University. Prof. Chandra is known internationally for his research on the dynamics of droplets and sprays and is one of the founders of the Centre for Advanced Coating Technologies at the University of Toronto. His research spans the areas of fluid mechanics, heat transfer and materials science and has also been applied in spray coating, spray cooling, spray painting, ink-jet printing, electronic cooling and waste heat recovery. Prof. Chandra has published over 300 papers in referred journals and international conference proceedings. He was awarded the The Brockhouse Canada Prize for Interdisciplinary Research in 2010 by the Natural Sciences and Engineering Research Council of Canada to recognize outstanding collaborative research. He received the Jules Stachiewicz Medal for heat transfer in 2015 and the Robert W. Angus Medal for the management and practice of mechanical engineering in 2020, both awarded by the Canadian Society for Mechanical Engineering. He received the Classic Paper Award from the American Society of Mechanical Engineers in 2019. Professor Chandra was a Fellow of the Centre of Smart Interfaces at the University of Darmstadt in 2011 and the Tan Chin Tuan Exchange Fellow at Nanyang Technological University in 2018. He is a Fellow of the Canadian Academy of Engineering, the American Society of Mechanical Engineers, the Canadian Society for Mechanical Engineering and the American Association for the Advancement of Science.

KEYNOTE LECTURE



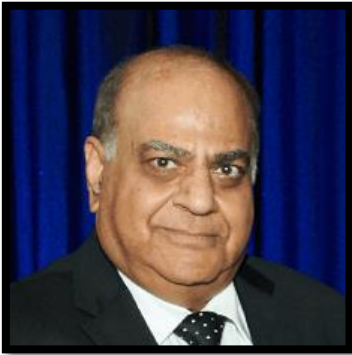
Title: Research in Flow Boiling in Small to Microscale Heat Exchangers
[Dr. Tassos Karayiannis, Brunel University London, UK](#)

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Tassos Karayiannis studied at the City University London and the University of Western Ontario. He started his career as a researcher at Southampton University and later as a British Technology Group Researcher at City University. Subsequently he worked at London South Bank University and joined Brunel University London in 2005 where he is now Professor of Thermal Engineering, Leader of the Two-Phase and Heat Transfer Group and Director of the Energy Efficient and Sustainable Technologies Research Centre of Brunel. Professor Karayiannis has carried out fundamental and applied research in a number of single-and two-phase heat transfer areas. He has been involved with two-phase flow and heat transfer for over 35 years. Initially he worked on the enhancement of pool boiling and condensation processes using high intensity electric fields (Electrohydrodynamic enhancement of Heat Transfer). In parallel, he carried out extensive experimental work in pool boiling heat transfer with plane and enhanced surfaces. Professor Karayiannis has also been very actively involved with research in flow boiling in small to micro tubes and micro-multi-channels. This work involves fundamental studies as well as research leading to the design of high heat flux integrated thermal management systems. His research has been funded by the UK Engineering and Physical Sciences Research Council, Innovate UK and Industry. He has published more than 250 chapters in books, papers and industrial reports. He is a Fellow of the EI and the IMechE, Member of the Assembly for International Heat Transfer Conferences and the Chairman of the UK National Heat Transfer Committee.

KEYNOTE LECTURE



Title: Transport Processes in the Fabrication of Thin Films by Chemical Vapor Deposition
Dr. Yogesh Jaluria, The State University of New Jersey, USA

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Dr. Yogesh Jaluria is Board of Governors Professor and Distinguished Professor at Rutgers, the State University of New Jersey. His research work is in the field of thermal science and engineering, covering areas like convection, fires, materials processing, thermal management of electronics, energy, and environment. He is the author/co-author of 10 books, including 4 extensively expanded revised versions. He is also the editor/coeditor of 15 conference proceedings, 14 books, and 16 special issues of archival journals. He has contributed over 600 technical articles, including over 230 in archival journals and 22 book chapters. He has 3 patents and 7 copyrighted software. He has received several awards and honors for his work, such as the prestigious 2020 Holley Medal from ASME for pioneering achievements in optical fiber drawing, the 2020 Thermal and Fluids Engineering Award from ASTFE, the 2010 A.V. Luikov Award from the International Center for Heat and Mass Transfer (ICHMT) in recognition of outstanding work done over his career, the 2007 Kern Award from AIChE, the 2003 Robert Henry Thurston Lecture Award from ASME, and the 2002 Max Jakob Memorial Award, the highest international recognition in heat transfer, from ASME and the AIChE. He also received the 2000 Freeman Scholar Award and the 1995 Heat Transfer Memorial Award from ASME. He has served as Department Chairman and as Interim Dean of Engineering. He served as Editor-in-Chief of the Journal of Heat Transfer and as Editor of Computational Mechanics. He is presently an Editor of Annual Review of Heat Transfer. He served as the Chair of the Executive Committee of the ASME Heat Transfer Division and of ICHMT. He has served as conference Chair/co-Chair for several international conferences. He has served on the advisory boards of many universities and centers. He is an Honorary Member of ASME and a Fellow of AAAS, ASTFE, APS, and ICHMT. He served as the founding President of the American Society of Thermal and Fluids Engineers (ASTFE) from 2014 to 2019.

KEYNOTE LECTURE



Title: Optimization of Thermal Systems, From Small Heat Sinks to Big Buildings: Which Way?
Dr. Gerardo Maria Mauro, Università degli Studi del Sannio, Italy

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Gerardo Maria Mauro was born in Benevento (Italy) on May 12, 1988. He is Associate Professor at “Università degli Studi del Sannio”, Department of Engineering. His main research topics concern: i) numerical simulation and optimization of building energy design or retrofit; ii) large-scale analysis of building stocks via machine/deep learning; iii) development and optimization of strategies for the model predictive control of energy systems; iv) investigation of innovative building components for 3d printing; iv) advanced modeling and optimization of heat transfer systems via numerical methods and machine/deep learning. He is author of more than 60 scientific publications at international level. Five of them have been “highly cited papers” according to ISI Web of Science. According to SCOPUS database (August 2022) he has H-Index equal to 22 and more than 1700 citations. He is Editorial Board Member of the MDPI Journals “Sustainability”, “Energies” and “Buildings”. He is Reviewer of around 30 international scientific Journals published by Elsevier, Taylor & Francis, MDPI and Springer. He participates to different national and European research projects.

KEYNOTE LECTURE



Title: Nanofluids: Stability and Thermophysical Properties for Heat Transfer

Dr. Gerardo Maria Mauro, Università degli Studi del Sannio, Italy

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Dr. Zafar Said is working as Associate Professor at the Department of Sustainable Renewable Energy Engineering, University of Sharjah. He is also working as Adjunct Faculty at the U.S.-Pakistan Center for Advanced Studies in Energy (USPCAS-E) National University of Science and Technology (NUST), Pakistan. He also serves as the coordinator of the Functional nanomaterials' synthesis lab. Dr. Zafar completed his Ph.D. at the University of Malaya, Malaysia. He has graduated with a B.S. in Mechanical Engineering (Hons.) from University Tenaga Nasional, Malaysia. He has a diploma in Artificial Intelligence from the University of Sharjah. He worked as a postdoctoral researcher in the iSmart group in the Department of Engineering Systems and Management, Masdar Institute, U.A.E. He also worked with industrial collaborative projects which were confidential with Masdar Institute. He works in the field of Renewable Energy, Energy and Exergy Analysis, Solar Energy (Solar Collectors, Energy Efficiency, Efficiency Improvement), Heat Transfer (Heat Transfer, Cooling, and Heating), AI, optimization, and Nanofluids (Thermophysical properties, optical properties, Application of nanofluids). He has published over 200+ papers as per Scopus, including one in Progress in Energy and Combustion (IF: 35.339), One in Physics Reports (IF: 30.105), One in Nano Energy (IF: 19.069), 6 in Renewable and Sustainable Energy Reviews (IF: 16.799), 2 books, 20 book chapters, 26 conference papers), with about 8545+ citations and an H-index of 55. He also edited and authored a book titled "Hybrid Nanofluids and applications" with Elsevier as the First Edition. He is currently working on two more books, one with Elsevier and the other with Springer. He is also ranked in World's Top 2% Scientists 2021 and 2020 by Elsevier BV and Stanford University) in the field of Energy. He is also ranked in the top 100 scientists in the United Arab Emirates, as per [adscientificindex:\(https://lnkd.in/eJ2QTB2e\)](https://lnkd.in/eJ2QTB2e). He secured more than 2 million AED in research grants.

LIST OF PAPERS

The following papers were presented at the 4th International Conference on Fluid Flow and Thermal Science (ICFFTS 2023)

CFD

The Influence of the Pin-Fin Wake Flow Structure on the Heat Transfer Characteristics of the Microchannels

Authors: Zhikun Sun, Tiantian Wang, Bosen Qian, Fangcheng Shi

Numerical Study on Slipstream-Induced Snow Drifting and Accumulation in the Bogie Region

Authors: Yu Wang, Tiantian Wang, Chen Jiang

Quantum Computing CFD Simulations for Aeronautical Heat Exchangers

Authors: Giulio Malinverno, Javier Blasco Alberto, Jon Lecumberri SanMartin

CFD Analysis of a Two-Phase Fluid Flow Compressor

Authors: Wenjing Lyu, Giovanni Luzi, Bernhard Gatterinig, Antonio Delgado

Asymptotic Modeling of Microstructured Optical Fibres Drawing Process

Authors: Giovanni Luzi, Bernhard Gatterinig, Antonio Delgado

Thermal and Hydraulic Performance of Finned Tube Heat Exchangers

Authors: Saksham Gupta, Dan Ewing, Chan Y. Ching

A Study Of Subcooled Pool Boiling Using Direct Numerical Simulations

Authors: Sara Youssoufi, Aaron Lentner, Amir Riaz, Elias Balaras

Experimental Validation of Global & Local CFD Analysis of Thermoacoustic Refrigerator

Authors: Omar Ahmed Al-Mufti, Isam Janajreh

LIST OF PAPERS

Two and Multiphase Flow and Heat Transfer

Transport Processes in the Fabrication of Thin Films by Chemical Vapor Deposition

Authors: Yogesh Jaluria, Sun Wong

Analysis of a New Design of Metal Directed Energy Deposition Nozzle

Authors: Shu-San Hsiau, Wang Bing-Zhi, Li-Tsung Sheng

Comparative Analysis of Machine Learning Approaches for Boiling ONB Prediction

Authors: Adrián Cabarcos, Concepción Paz, Miguel Concheiro, Marcos Conde-Fontenla, Eduardo Suárez

Interaction of Non-Isothermal Flow and Solidification

Authors: Yulii D. Shikhmurzaev

Investigations of stability and physical properties of BN-SiO₂ hybrid nanofluid

Authors: Filipa Almeida, Marco A. Marcos, S M Sohel Murshed

Hybrid Coupling Method for Microwave Drying Modelling

Authors: Henri Laccassagne, Wahbi Jomaa, Régis Pommier

Phase Change Material Simulation for Electronics Cooling: A Comprehensive Validation and Verification of the Lattice Boltzmann Method

Authors: Anas Ghannam, Anas AlAzzam, Eiyad Abu-Nada

Posters Session

Aerodynamic Noise Reduction of Pantograph by Small Rods

Authors: Masahiro Suzuki, Nobuyuki Okura, Tatsuya Murao

LIST OF PAPERS

Virtual Session

Passive Cooling Strategy for Reducing Load in a Building with an Integrated PCM on the Rooftop

Authors: Amirhossein Khayyaminejad, Amir Fartaj

Film Drainage and Coalescence of Droplets Containing Particles in Creeping Flow Through Cylindrical Tube

Authors: Masahiro Muraoka, Takahiro Nakanomiya

Feasibility study of using Machine Learning to accelerate CFD solvers

Authors: Sreerag E P, Balaji S

Curvature Effect on Fouling and Heat Transfer of a Thick Curved Plate

Authors: Li Hongying, MD Didarul Islam, Afshin Goharzadeh, Yap Yit Fatt

Performance of a Metal Foam Coated Airfoil Tube Cross-Flow Heat Exchanger

Authors: Raghad Ahmed Ali Alsereidi, Guan Qiangshun, Khloud Alseiari, Fatima Alzeyoudi, MD Didarul Islam, Afshin Goharzadeh, Yap Yit Fatt

Experimental Investigation of Averaged Heat Fluxes Densities of a Droplet

Authors: Kristina Biknienė, Linas Paukštaitis

Intelligent Thermal Management of Li-ion Batteries via Temperature-Responsive Coolant Flow Control

Authors: Aaditya Rahul Sakrikar, Jacob Thomas Sony, Pranav Singla, Aniruddh Baranwal

LIST OF PAPERS

Virtual Session

Exploring Chaotic Dynamics: Finding the Edge State in a Divergent Pipe Flow

Authors: Oussama Latrech, Gregoire Lemoult, Innocent Mutabazi

Investigating Airlift Pump Performance under Three-Phase Flow Conditions

Authors: Marwan Taha, Wael Ahmed, Soha Moussa

Variable PCM Density-based Numerical Model for Packed Bed Latent Heat Thermal Energy Storage

Authors: Akshay Kumar, Sandip K. Saha

SPONSORS

International ASET Inc. would like to thank the following sponsors for their support of ICFFTS 2023:



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ICFFTS 2024

The 5th International Conference on Fluid Flow and Thermal Science (ICFFTS 2024) will be held on November 21 - 23, 2024 in Lisbon, Portugal.



For inquiries and to obtain further information on the congress, please visit the [website](https://2024.icffts.com)

You can also email info@icffts.com or call us at:

+1-613-834-9999

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JOURNAL PUBLICATION

Selected articles from the conference will be published in the **Journal of Fluid Flow, Heat and Mass Transfer (JFFHMT)** after a secondary review process.

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

All published papers of JFFHMT will be submitted to Google Scholar and be indexed in Scopus. 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 websites for the respected journals: **JFFHMT:** <https://jffhmt.avestia.com>

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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.

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

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.

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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Ownership and Management:

This conference-proceedings is managed and operated by the International ASET (International Academy of Science, Engineering, and Technology) and Avestia Publishing (the publishing arm of ASET).

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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