



City University International Journal of Computational Analysis

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Aims and Objectives

The aim of the City University International Journal of Computational Analysis (CUIJCA) is to encourage scientists, academicians, and students to publish their experimental and theoretical research. CUIJCA provides an advanced knowledge platform for Science and Engineering professionals. CUIJCA, an international peer-reviewed online journal, presents original research articles and rapid communications, covering all areas of computations in mathematical sciences particularly, in engineering, and technology. The primary mission of the journal is to become the premier source of high-quality research from the whole of the world.

Focus and Scope

CUIJCA publishes articles in the field of applied and pure mathematics having applications in science and engineering such as (but not limited to the following):

Fluid Mechanics
Mathematical Biology
Mathematical Modeling
Nanofluids
Classical/Fractional Derivatives
Fuzzy Logic
Graph Theory
Algebra
Computational Analysis
Heat and Mass Transfer
Computational work in Engineering

Guidelines for Authors

GENERAL

The City University International Journal of Computational Analysis (CUIJCA) is published annually by City University of Science and Information Technology, Peshawar, Pakistan. It adheres to the guidelines established by the Committee on Publication Ethics (COPE), as outlined in the "Recommendations for the Conduct, Reporting, Editing, and Publication of Scholarly Work," which can be accessed here.

Submission of Manuscripts

Manuscripts containing original material are accepted only. Neither the article nor any part of its essential substance should be submitted for publication elsewhere before appearing in this journal.

Online Submission

The corresponding author has to create an account or login to an existing account on our website. Then he has to follow a 5-step easy submission process. The manuscript must be blinded, not showing authors details; names, designations, departments, institutions, cities etc. The details of authors are to be uploaded in metadata. The supplementary files, including data files, fee submission document etc. may be added, if desired.

Language

CUIJCA is published in English. Try to follow the British English but do not hesitate to use American English where convenient.

Writing style & Format

Please use Times New Roman, size 12, justified with 1.5 line spacing. Put tables and illustrations (figure/ chart/ image) where stated, not at the end of the document.

Title of the manuscript

Conciseness: Ensure titles are brief yet informative, capturing the essence of the research succinctly.

Clarity: Use clear and understandable language to convey the main topic and purpose of the study.

Relevance: Ensure titles directly relate to the content of the manuscript, reflecting its scope and focus accurately.

Specificity: Be specific in the title, highlighting key aspects or findings of the research without ambiguity.

Accuracy: Ensure titles accurately represent the content and avoid misleading or exaggerated claims.

Language: Titles must be in English, with the first letter of each word capitalized. Avoid abbreviations, except for the most common ones when necessary.

Keywords: Consider incorporating relevant keywords to enhance searchability and visibility of the manuscript.

Originality: Strive for originality in title creation to distinguish the research and attract readers' interest.

Consistency: Maintain consistency in title formatting and style throughout the manuscript.

Review: Review and revise titles carefully to ensure they effectively convey the significance of the research.

Key words

Select concise, relevant keywords representing applied mathematics and computational methods. Ensure diversity by including terms covering mathematical models, algorithms, and computational simulations. Maintain consistency in terminology throughout the manuscript. Tailor keywords to the target audience, focusing on relevance to researchers and practitioners. Review keywords carefully for accuracy and enhance discoverability with five to ten well-chosen terms.

Abbreviations

Standard abbreviations should be used only. For every abbreviation the full word should be given at first with abbreviation in parenthesis. Well known and frequently used abbreviation may be used as such.

Tables and Illustrations

There is no limit on the number of tables and illustrations (graphs/ charts/ images). These should be as per rational demand of the manuscript.

Each table and illustration should stand by itself; showing all its contents/ meanings without going into the text.

Each table and illustration must have a serial number and a title; above the table and below the illustration. The title of table and illustration should be summary of the tile of the manuscript.

Illustrations should be of good quality.

Where required, table or illustration should have an accompanying legend.

If a table or an illustration has been reproduced from a published work the source must be given.

The author must submit the permission from the author/ publisher to reproduce the previously published illustration.

References

In-Text Citations:

In-text citations should be used to acknowledge sources within the manuscript.

Each in-text citation should be numbered consecutively in square brackets, such as [1], [2], etc.

The numbers assigned to citations should correspond to the order in which the sources are cited in the manuscript.

Reference List:

A reference list should be included at the end of the manuscript, listing all sources cited in numerical order.

References should be formatted according to the IEEE citation style.

Each reference should include the author(s)' name(s), title of the work, title of the publication (if applicable), publication year, volume (if applicable), issue (if applicable), page numbers, and DOI (if available).

Formatting Examples:

Journal Article:

[1] A. Author et al., "Title of the Article," Title of the Journal, vol. x, no. x, pp. xx-xx, Month Year.

Book:

[2] B. Author, Title of the Book, Edition (if applicable). Publisher, Year.

Conference Paper:

[3] C. Author, "Title of the Paper," in Proceedings of the Conference Name, Year, pp. xx-xx.

Website:

[4] D. Author, "Title of the Web Page," Title of the Website, Month Day, Year. [Online]. Available: URL. [Accessed: Month Day, Year].

DOI Usage:

Whenever possible, include the Digital Object Identifier (DOI) for each reference.

DOIs provide a persistent link to the source and facilitate easy access for readers.

Accuracy and Consistency:

Ensure accuracy and consistency in formatting references throughout the manuscript.

Double-check all details, including author names, publication titles, and publication years, to avoid errors.

Units of Measurements:

Please use Systems International (SI) units, where possible.

Guidelines for Reviewers

Timeliness:

Complete reviews promptly within the specified timeline.

Objectivity:

Provide impartial and constructive feedback.

Expertise:

Assess manuscripts within your area of expertise.

Confidentiality:

Maintain confidentiality throughout the review process.

Clarity:

Clearly articulate strengths and weaknesses of the manuscript.

Constructive Criticism:

Offer suggestions for improvement to enhance manuscript quality.

Adherence:

Ensure compliance with journal guidelines and ethical standards.

Communication:

Communicate any conflicts of interest or concerns to the editorial team.

Professionalism:

Conduct reviews with professionalism and respect for authors' work.

Contribution:

Contribute to the advancement of scholarly knowledge by providing valuable insights.

Your contributions as a reviewer play a crucial role in maintaining the quality and integrity of CUIJCA.

Review Policy**Peer Review:**

CUIJCA employs a double-blind, peer-reviewed process.

Each manuscript undergoes evaluation by two experts, one from Pakistan and one from a developed country.

Reviewers' comments are conveyed to authors for revisions.

Editorial Evaluation:

Manuscripts are further evaluated by respective editors and the Chief Editor.

Assessment considers adherence to journal standards and contribution to computational analysis.

Decision Notification:

Authors are promptly notified of acceptance or rejection.

Accepted manuscripts are queued for publication.

Publication and Archiving:

Accepted manuscripts are published, while rejected ones are archived.

CUIJCA's publication process ensures rigorous review, integrity, and dissemination of quality research in computational analysis.

Publication Ethics

The City University International Journal of Computational Analysis (CUIJCA) is dedicated to maintaining the highest standards of publication ethics and integrity. Authors, reviewers, editors, and the editorial team are expected to adhere to the following ethical principles throughout the publication process:

Authorship and Contributorship

Authorship eligibility is contingent upon substantial contributions to the conception, design, data acquisition, analysis, or interpretation of the study, in accordance with guidelines established by the Committee on Publication Ethics (COPE).

All individuals listed as authors must have made significant intellectual contributions to the study and must have actively participated in the drafting or revising of the manuscript.

Contributors who do not meet the criteria for authorship but have provided valuable assistance should be acknowledged appropriately in the manuscript.

Avoidance of Plagiarism and Fraud

Authors must ensure that their work is original and has not been previously published elsewhere.

Plagiarism, fabrication, falsification, and other forms of academic misconduct are strictly prohibited and will result in rejection of the manuscript and potential sanctions against the responsible parties.

Conflicts of Interest

Authors are required to disclose any conflicts of interest that could influence the interpretation or perception of their work.

Conflicts of interest may include financial interests, affiliations, or personal relationships that could bias the research or its outcomes.

Peer Review Process

The peer review process is conducted with integrity, fairness, and confidentiality.

Reviewers are expected to provide objective and constructive feedback on the quality and validity of the research.

Editors ensure that the peer review process is transparent and free from bias, avoiding conflicts of interest and maintaining confidentiality throughout.

Editorial Integrity

Editors are responsible for making editorial decisions based on the merit and validity of the research, regardless of any personal or professional affiliations.

Editorial decisions are guided by the journal's policies, ethical guidelines, and the principles of academic integrity.

Transparency and Corrections

Authors are encouraged to promptly report errors or inaccuracies in their published work and cooperate with the editorial team to issue corrections or retractions when necessary.

Corrections, retractions, and expressions of concern are handled transparently and promptly, with due consideration for the integrity of the scholarly record.

Compliance with Guidelines

Authors, reviewers, editors, and the editorial team are expected to comply with all relevant ethical guidelines, including those established by COPE and other relevant organizations.

Violation of any of these ethical principles may result in sanctions, including rejection of manuscripts, retraction of published articles, and exclusion from future involvement in the journal. The editorial team of CUIJCA is committed to upholding the highest standards of publication ethics and fostering a culture of integrity and accountability in scholarly publishing.

Publication Malpractice

The City University International Journal of Computational Analysis (CUIJCA) is dedicated to maintaining the highest standards of ethical conduct and integrity in scholarly publishing. As such, we have established the following publication malpractice statement to address any instances of misconduct and ensure the integrity of the journal's content:

Plagiarism and Academic Misconduct

Plagiarism, including the reproduction of others' work without proper citation or attribution, is strictly prohibited.

Authors are expected to ensure the originality of their submissions and properly cite sources when using the work of others.

Plagiarism, defined as the presentation of another author's language, text, thoughts, ideas, or expressions as one's own original work, is strictly prohibited by the City University International Journal of Computational Analysis (CUIJCA). This includes instances of self-plagiarism, such as duplicate or redundant publication, text recycling, and salami slicing. CUIJCA adheres to the

guidelines, standards, and policies established by COPE (Committee on Publication Ethics) and the Higher Education Commission (HEC), Pakistan, regarding plagiarism.

To ensure the authenticity of submitted manuscripts, CUIJCA employs TURNITIN to check the similarity index of each submission. Manuscripts with a similarity index up to 50% are reviewed by the editorial team, and the similarity reports are conveyed to the authors. However, manuscripts exceeding a similarity index of 50% are rejected without further review or processing. According to the guidelines set forth by the Higher Education Commission (HEC), Pakistan, a similarity index of less than 20% is required for the authenticity of the work. If the report has a minimum similarity index of less than or equal to 19%, the benefit of the doubt may be given to the author. However, if any single source has a similarity index greater than or equal to 5%, it needs to be checked as a potential basis of plagiarism. In cases where the similarity is due to drawing upon the author(s) own work(s), these instances may be considered acceptable and not used to penalize the author(s), as long as it does not result in duplicate publication. Additionally, levels of EDS (Electronic Detection System) may be considered for further interpretation as per the EDS Manual.

Authors also have the option to submit their own similarity report as a supplementary file if they have already checked the manuscript using TURNITIN or a similar software. Any attempt of plagiarism is considered academic dishonesty and will be dealt with accordingly.

If plagiarism is discovered after the publication of an article, it will be retracted, and the authors may face permanent or temporary debarring from submitting to the journal. The parent institution of the authors may also be notified for further departmental proceedings against the author. In cases where plagiarism is detected prior to publication, the current article will be rejected, and the authors may be barred from submitting to the journal for one or more years.

CUIJCA is committed to upholding the highest standards of publication ethics and integrity, and we take a zero-tolerance approach towards plagiarism. We urge all authors, reviewers, and stakeholders to adhere to these ethical principles to maintain the credibility and reputation of scholarly publishing.

Data Fabrication and Falsification

Authors must accurately represent their research findings and avoid the fabrication or falsification of data.

Manipulating or altering data to misrepresent research outcomes is considered unethical and unacceptable.

Authorship and Contributorship

Authorship eligibility is contingent upon substantial contributions to the conception, design, data acquisition, analysis, or interpretation of the study.

All individuals listed as authors must have made significant intellectual contributions to the study and actively participated in drafting or revising the manuscript.

Conflict of Interest Disclosure

City University International Journal of Computational Analysis (CUIJCA) adheres to strict conflict of interest guidelines to ensure the integrity and transparency of the publication process. Authors, reviewers, editors, and members of the editorial team are expected to disclose any potential conflicts of interest that could influence their objectivity or compromise the credibility of the research.

Failure to disclose conflicts of interest may result in rejection of manuscripts, removal from the review process, or other sanctions as deemed appropriate by the editorial team.

CUIJCA is committed to upholding the highest standards of transparency and integrity in scholarly publishing and encourages all stakeholders to adhere to these conflict of interest guidelines.

Funding Disclosure

All sources of grants received and their spending should be disclosed in accordance with transparency standards. Authors are required to declare this information on the submission statement form and at the end of the manuscript, just before the references section. If no funding sources were received, authors should explicitly state "none to declare."

Authors

Authors are required to disclose any financial interests, affiliations, or relationships that may have influenced the research or its outcomes.

Disclosure should be made at the time of manuscript submission and updated if any conflicts arise during the review process.

Authors must also declare any sources of funding or support for the research.

If authors have no conflicts of interest to declare, they should explicitly state: "The authors declare no conflict of interest."

Peer Review Process

The peer review process is conducted with integrity, fairness, and confidentiality.

Reviewers are expected to provide unbiased and constructive feedback on the quality and validity of the research.

Editorial Integrity

Editors are responsible for making editorial decisions based on the merit and validity of the research, regardless of any personal or professional affiliations.

Editorial decisions are guided by the journal's policies, ethical guidelines, and academic standards.

Transparency and Corrections

Authors are encouraged to promptly report errors or inaccuracies in their published work and cooperate with the editorial team to issue corrections or retractions when necessary.

Corrections, retractions, and expressions of concern are handled transparently and promptly, with due consideration for the integrity of the scholarly record.

Compliance with Guidelines

Authors, reviewers, editors, and the editorial team are expected to comply with all relevant ethical guidelines, including those established by the Committee on Publication Ethics (COPE) and other relevant organizations.

Any instances of publication malpractice or ethical misconduct will be thoroughly investigated by the editorial team in accordance with established guidelines and procedures. Appropriate actions will be taken to address and rectify any identified misconduct, including retraction of published articles, sanctions against responsible parties, and notification of relevant stakeholders.

The editorial team of CUIJCA is committed to upholding the highest standards of publication ethics and integrity, and we encourage all stakeholders to adhere to these principles in their scholarly activities.

Artificial Intelligence (AI) Disclosure Policy

Introduction

City University International Journal of Computational Analysis (CUIJCA) recognizes the growing influence of artificial intelligence (AI) in research and manuscript creation. This policy outlines the guidelines for authors concerning the disclosure and responsible utilization of AI in submitted work.

AI-Assisted Technologies Disclosure

Authors must disclose the use of AI-assisted technologies, such as Large Language Models (LLMs), chatbots, image generators, or similar tools, during the production of their submissions.

Author Responsibility

Authors utilizing AI technologies are accountable for ensuring the accuracy, integrity, and originality of their work. AI tools, including chatbots like ChatGPT, cannot be credited as authors as they lack the capacity to assume responsibility for these essential aspects of authorship.

Submission Requirements

Authors employing AI technologies should provide a detailed description of their utilization of such technology in both the cover letter and within the submitted manuscript. This disclosure should clarify the specific role of AI in the research and manuscript creation processes.

Prohibition of AI as an Author

AI tools, chatbots, and AI-assisted technologies should not be listed as authors or co-authors. Authorship entails responsibility for ensuring accuracy, integrity, and originality, which AI lacks.

Review and Editing by Humans

Authors using AI are responsible for thoroughly reviewing and editing the content generated by AI. While AI technologies can produce authoritative content, it is essential for human authors to correct and refine the material, as it may contain inaccuracies, omissions, or biases.

Plagiarism Check and Attribution

Authors must confirm that their paper contains no instances of plagiarism, including text and images generated by AI. Human authors must ensure proper attribution of all quoted material, providing complete citations for any content generated with AI assistance.

Attribution in Submitted Material

All content, including text and images produced with AI assistance, must be appropriately attributed. Authors should ensure that readers can easily distinguish between human-generated content and content generated with AI assistance.

Compliance and Accountability

Authors are expected to adhere to this policy to uphold the ethical use of AI in research and manuscript creation. Failure to comply may result in editorial actions, such as rejection of the submission.

Review and Updates

This policy will undergo periodic review to remain consistent with evolving ethical standards and technological advancements. Updates will be communicated, and authors are encouraged to stay informed about the latest requirements.

Digital Archiving

Digital Archiving

This journal utilizes PKP PN, LOCKSS and CLOCKS systems to create a distributed archiving system among participating libraries and permits those libraries to create permanent archives of the journal for purposes of preservation and restoration.

Open Access Policy

This journal provides immediate open access to its content on the principle that making research freely available to the public supports a greater global exchange of knowledge.

Copyrights and Licensing

The authors will retain the copyrights of their submitted manuscripts for all purposes.



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Data Sharing Policy

Authors are encouraged to deposit their data in any public repository and share the information/link under the heading "Data Sharing" at the end of the submitted manuscript.

If data cannot be shared due to ethical or legal reasons, authors must provide a clear justification and alternative arrangements for data sharing, such as restricted access, may be considered.

Self-Archiving/Repository

Self Archiving

Authors are permitted to deposit all versions of their paper in an institutional or subject repository:

1. Preprint
2. Author’s Accepted Manuscript
3. Version of Record
4. No embargo is applied.

Repository

For CUIJCA, authors are permitted to self-archive and make their articles publicly accessible on their employer's internal website, institutional repositories, and/or funder repositories. We strongly encourage authors to deposit the Version of Record and provide the URL/DOI of their published article in any repository. This ensures that the definitive version is readily available and increases the likelihood of correct citation.

Here's a summary of how authors can share different versions of their article:

Submitted Version (Author's Original Manuscript):

Authors can share their submitted version (AOM) on social media, scholarly collaboration networks, personal websites, or preprint servers (e.g., arXiv, bioRxiv) for non-commercial use. Posting on a preprint server is not considered duplicate publication. Upon acceptance, authors should acknowledge acceptance by stating: "This article has been accepted for publication in CUIJCA."

Accepted Version (Author Accepted Manuscript):

Authors can share their accepted version (AM) after acceptance, including on platforms like Facebook, Google groups, LinkedIn, or Twitter. We recommend inserting a link from the posted AM to the published article with the following text, including the DOI: "This is an Accepted Manuscript of an article published in CUIJCA on [date of publication], [Article DOI]."

Published Version (Version of Record):

Upon publication, authors can link to the Version of Record (VOR) using the DOI or post the article PDF on non-commercial websites and repositories of their choice, ensuring the connection between different versions. Authors can add text such as: "This is an [title of Accepted Manuscript / Author's Original Manuscript] of an article published in CUIJCA on [date of publication], available at [Article DOI]."

By linking different versions of their article, authors enhance accessibility and facilitate proper citation of their work in CUIJCA.

Authorship Criteria

Authorship eligibility should be contingent upon substantial contributions to the conception, design, data acquisition, analysis, or interpretation of the study, in accordance with the guidelines established by the Committee on Publication Ethics (COPE).

All individuals listed as authors must have made significant intellectual contributions to the study and must have actively participated in the drafting or revising of the manuscript. Contributors who do not meet the criteria for authorship but have provided valuable assistance should be duly acknowledged in the acknowledgment section.

The practice of honorary or guest authorship, where individuals are included as authors without making meaningful contributions, is strongly discouraged. Any concerns or issues related to authorship or contributorship, including instances of ghost authorship, guest authorship, and other distortions, will be addressed in accordance with COPE Guidelines.

Corresponding authors bear the responsibility of ensuring that all co-authors have reviewed and approved the final version of the manuscript and are responsible for maintaining communication with the editorial team throughout the publication process.

Changes in authorship, including additions, deletions, or rearrangements, must be agreed upon by all affected authors and communicated to the editorial team with appropriate justifications. The City University International Journal of Computational Analysis (CUIJCA) does not support changes to the author list, including additions and deletions, after the editorial process has begun.

Authors are required to provide complete information on the contribution agreement form, including name, designation, affiliation, address, email, contact number, and ORCID ID. Any present addresses for individual authors that differ from the address(es) where the work was conducted should be clearly indicated in a note at the bottom of the first page. Failure to provide comprehensive information may result in the rejection of the manuscript.

Authors must disclose any conflicts of interest and financial disclosures within the manuscript.

Acknowledgement Policy

For CUIJCA, individuals who do not fulfill all four authorship criteria but have contributed to the study may be acknowledged. Examples include, but are not limited to:

Supervisors of the research group

Those offering administrative assistance

Colleagues aiding in study design

Reviewers of the manuscript

Individuals providing laboratory support

Withdrawal Policy

Submitting the same manuscript to multiple journals simultaneously is highly unethical. Should an author decide to withdraw their manuscript during processing, they must send an official email to the editor-in-chief requesting withdrawal. No manuscript will be considered officially "withdrawn" without such notification. It is important to note that a manuscript cannot be withdrawn after it has been accepted by the journal.

Correction Policy

In cases where a manuscript has a minor flaw that does not significantly impact its findings, the editor may choose to issue a correction rather than a retraction, for the benefit of the scientific community. Depending on the source of the mistake, either an ERRATUM or CORRIGENDUM will be issued.

An ERRATUM is issued if the mistake originated from the production process handled by the publisher.

A CORRIGENDUM is issued if the mistake is due to an author's miscalculation or oversight.

Appeal Process

The readers may submit a formal appeal regarding any problem, including but not limited to any conflict, delays in review or publishing or article processing charges or rejection of manuscripts to the Chief Editor (farhadali@cusit.edu.pk). He/She will refer it for investigation to the Appeals Committee to give recommendations to the Board for decision in the light of the Core Practices of COPE, COPE Guidelines and Council of Science Editors. The Committee is comprised of:

1. Dr. Ilyas Khan
2. Dr. Samiulhaq

Journal's Ombudsman

In case the appellant does not agree to the recommendations of the Appeals Committee and decision of the Editorial Board, he can put appeal to the Journal's Ombudsman as detailed below. His decision will be final and the appellant and the Editorial Board will have to abide by it.

Prof. Dr. Attaullah Shah, Vice Chancellor, Karakoram International University, Gilgit Baltistan, Pakistan.

Email: vc@kiu.edu.pk

Complaint Process

The readers may submit a formal complaint regarding any publication misconduct on the part of author, reviewer, or Editor/Editorial Board to the Chief Editor (farhadali@cusit.edu.pk). He will refer it for investigation to the Complaints Process Committee to give recommendations to the Board for decision in the light of the Core Practices of COPE, COPE Guidelines and Council of Science Editors. The Committee is comprised of:

1. Prof. Dr. Yeliz Karaca
2. Dr. Arshad Khan



Dr. Farhad Ali

Head of Mathematics Department, City University of Science and IT Peshawar

Chief Editor, CUIJCA

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