THIAGARAJAR JOURNAL OF ENGINEERING, SCIENCE, DESIGN AND TECHNOLOGY

Aim

Thiagarajar Journal of Engineering, Science, Design, and Technology (TJESDT) aims to serve as an interdisciplinary platform for the publication of cutting-edge research in the areas of engineering, applied sciences, technological innovation, and design in national level across all the Indian states. The journal seeks to foster collaboration between researchers, professionals, and practitioners from diverse fields, providing a venue for the exchange of ideas and dissemination of high-impact findings that drive technological advancements and scientific discovery.

Scope

TJESDT publishes original research articles, review papers, and technical reports that contribute to the understanding and development of engineering, science, design and technology. The journal covers a broad spectrum of topics, including but not limited to:

Engineering:

- Civil, Mechanical, Electrical Engineering
- Electronics and Communication Engineering
- Computer Science and Engineering
- Environmental and Sustainable Engineering
- Industrial Engineering and Manufacturing
- Materials Science and Nanotechnology
- Structural Engineering
- Robotics and Automation

Applied Science:

- Physics, Chemistry, and Mathematical Modeling
- Computational and Data Science
- Environmental Science and Green Technologies
- Artificial Intelligence and Machine Learning
- Quantum Computing and Simulation
- Cognitive Science
- Renewable Energy and Smart Grids

Design:

- Building Design and Urban Infrastructure
- Product Design and Development
- Engineering Design and Innovation
- Computer-Aided Design (CAD) and Simulation Tools
- Human-Computer Interaction (HCI) and User Experience (UX)
- Design Thinking and Creative Problem Solving

Technology:

- Internet of Things (IoT)
- Cyber-Physical Systems

- Smart Manufacturing and Industry 4.0
- Blockchain and Cyber security
- 3D Modeling and Printing
- Emerging Technologies and Digital Transformation
- Educational Technology

Interdisciplinary Focus

The journal encourages interdisciplinary research that bridges the gap between traditional engineering disciplines and the application of emerging technologies. Studies that integrate fields such as robotics, artificial intelligence, sustainability, and design principles to address contemporary challenges are highly encouraged.

Publication Frequency

- Twice in a year

Publication Types

- Original Research Articles
- Review Articles
- Case Studies/ Practices
- Special Issues on focused topics in engineering, science, design, and technology

EDITORIAL POLICIES

The **Editorial Policies** of the TJESDT are designed to ensure the integrity, transparency, and quality of the publication process. These policies guide authors, reviewers, and editors in maintaining the highest standards of academic and ethical conduct. The following is a proposed set of editorial policies:

1. Editorial Independence and Objectivity

The editorial team is committed to maintaining the independence and autonomy of the journal's academic content. All editorial decisions are based on the quality, originality, and relevance of the submission, without influence from external parties.Editors and reviewers will make decisions based solely on the merits of the manuscript, following the journal's focus and scope. Discriminatory practices based on nationality, gender, religion, or other personal characteristics are strictly prohibited.

2. Peer Review Process

- **Peer Review Type**: The journal uses a **double-blind peer review** process, where both authors and reviewers remain anonymous to each other to maintain objectivity and prevent bias.
- **Reviewers' Responsibilities**: Reviewers are expected to evaluate the manuscript for:
    - Originality and significance of the research
    - Novelty of the work
    - Methodological rigor
    - Convincing Results
    - Appropriateness of the conclusions
    - Recent references
    - Clarity and coherence of writing
    - Clear diagrams with labeling

    - Ethical compliance
- **Timeliness**: Reviewers are expected to complete their assessments within a specified time frame (usually 5-6 weeks), and editors will ensure that timely decisions are made on submitted manuscripts.
- **Conflict of Interest**: Reviewers must disclose any potential conflicts of interest and refuse themselves from reviewing manuscripts if necessary.

3. Authorship and Contribution

- **Authorship Criteria**: Only those who have significantly contributed to the conception, design, analysis, and interpretation of the research should be listed as authors. All authors must approve the final version of the manuscript and agree to its submission.
- **Acknowledgement of Contributors**: Contributors who have made other important contributions to the research but do not meet the criteria for authorship should be acknowledged in the manuscript's acknowledgment section.
- **Changes in Authorship**: Any changes in authorship (e.g., additions or deletions) after submission must be approved by all authors and justified to the editorial team.

4. Ethical Guidelines

- **Plagiarism**: The journal has a zero-tolerance policy toward plagiarism. All submitted manuscripts will be checked for plagiarism using reliable plagiarism detection software (e.g.Turnitin). Manuscripts found to contain plagiarized content greater than 10% similarity values will not be considered for reviewing, and the authors may face sanctions, including being banned from submitting to the journal.
- **Data Fabrication and Falsification**: Any form of data fabrication or falsification is strictly prohibited. Authors must ensure that their research data is accurate, verifiable, and not manipulated.
- **Duplicate Submission**: Manuscripts must be original and not under consideration elsewhere. Simultaneous submission of the same manuscript to multiple journals is prohibited. If a manuscript is found to be submitted elsewhere during the review process, it will be rejected.
- **Conflict of Interest**: Authors must disclose any potential conflicts of interest that could affect their research or interpretation of results. This includes financial, personal, or professional relationships that could influence the manuscript.
- **Research Ethics**: Authors must adhere to ethical guidelines in the conduct of their research, including obtaining informed consent, approval from ethics committees, and ensuring the welfare of animals and human subjects.

5. Manuscript Submission

- **Submission Method**: TJESDT Portal through author login
- **Submission Requirements**: Authors must adhere to the journal's formatting and submission guidelines, which include the manuscript's structure, reference style, and specific instructions on figures, tables, and supplementary materials.
- **Publication Processing Fees**: NIL

6. Revision and Resubmission

- **Decision Notification**: Authors will receive one of the following decisions after peer review: accepted, minor revisions, major revisions, or rejected. Each decision will be accompanied by detailed feedback from reviewers.

- **Revision Process**: Authors are expected to respond to reviewers' comments and submit a revised version of their manuscript within the stipulated timeframe. In case of major revisions, authors may be asked to submit a detailed response letter addressing each reviewer's comment.
- **Resubmission Guidelines**: When resubmitting revised manuscripts, authors must include a list of changes made in response to reviewers' comments. In cases where authors disagree with reviewer comments, they must provide a clear, reasoned explanation.

7. Publication Ethics

Authors should ensure that all citations and quotations are properly referenced. The journal commits to transparency in all stages of the publishing process, including peer review, decision making, and corrections to published articles.If an article is found to have significant errors after publication, TJESDT will issue corrections or retractions as necessary.

8. Copyright

Authors must agree to transfer the copyright of their work to TJESDT (or grant an appropriate license) upon acceptance of their manuscript for publication. The license should allow for the widespread distribution and reuse of their work in accordance with open-access under the terms of the chosen license (e.g., Creative Commons).

9. Editorial Board Responsibilities

The editorial board is responsible for overseeing the journal's policies and ensuring the integrity of the peer review process. Editors must act in a fair and impartial manner when making decisions regarding manuscript acceptance, revision, or rejection.Editors must maintain the confidentiality of all submissions and not use any information from manuscripts for personal gain or benefit. The details of submissions must not be shared outside of the peer review process without prior consent from the authors.

10. Complaints and Appeals

Any concerns or complaints related to the editorial process, review process, or publication decisions should be directed to the Editor-in-Chief. Complaints will be handled promptly and in a fair manner.

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- Need to invite people

Brief Standard Operating Procedure for TJESDT

Process No	Descriptions	Responsibility	Months in a Year
1	Call for announcements with specific theme, dates, accept article submission	Editors & Associate Editors	First two weeks of Jan/Jul
2	Do branding for inviting articles across nation under the themes	Branding Team	Last two weeks of Jan/Jul
3	Reviewer invitations and updates in reviewer profile database	Review board members	Feb/Aug
4	Close the submission, article consolidation, scope and template checking	Review board members	First two weeks of Mar/Sep
5	Get the verified list of articles from review board, send articles for the identified/selected reviewers and collect review comments from 2-3 members	Associate Editors	Last two weeks of Mar/Sep
6	Review comments need to be communicated to the authors (major/ minor level)	Editors & Associate Editors	Last two weeks of Apr/Oct
7	Editors decisions (accept/ major/ minor/ reject)	Editors & Associate Editors	May/Nov of every year
8	Consolidate the accepted articles for publication	Publication board members	May/Nov of every year
9	Publish the articles with volume, issue number in online with ISSN	Publication board members	Jun/Dec of every year