Journal of Smart Technologies and Computational Systems

Submission Guidelines

Focus of the Journal

Journal of Smart Technologies and Computational Systems is an international, peer-reviewed, open-access journal dedicated to advancing research and innovation in intelligent technologies, computational engineering, data-driven systems, and next-generation digital infrastructures.

The journal publishes high-quality, original studies that explore theoretical foundations, computational methods, smart system architectures, intelligent automation, and applied technological solutions across diverse domains such as artificial intelligence, cyber-physical systems, smart manufacturing, digital education technologies, data science, cloud computing, and advanced cybersecurity.

We welcome a broad range of contributions — from computational modeling and algorithmic development to interdisciplinary studies that integrate computer science, engineering, data analytics, robotics, IoT, system design, and applied sciences.

Our editorial policy emphasizes scientific rigor, methodological transparency, and technological relevance. Manuscripts are assessed not only for originality and research significance but also for computational soundness, reproducibility, and their contribution to the advancement of smart and autonomous systems.

Authors are strongly encouraged to provide source code, datasets, simulation models, algorithmic frameworks, or supplementary materials to enhance transparency, replicability, and open scientific exchange.

All submissions undergo a double-blind peer review conducted by experts from relevant computational and engineering disciplines.

In addition to full research articles, the journal publishes review papers, short communications, and conceptual or technical essays that highlight emerging trends, methodological innovations, and future directions in intelligent technologies and computational systems.

Collaborative and interdisciplinary works across institutions and sectors are particularly encouraged to promote global exchange and foster comparative insights into the development of smart digital ecosystems.

General Information

Open Access Policy

The journal operates under a full open-access model — all published articles are freely available online upon release, with no subscription or access restrictions.

Publication Fees

There are no article processing charges (APCs) or submission fees. Publication in this journal is completely free of charge.

Language

Manuscripts must be written in clear, academically appropriate English. Authors whose native language is not English are strongly encouraged to have their manuscripts reviewed by a language professional prior to submission.

Ethics Compliance

All submissions must adhere to international publication ethics, including guidelines set by the Committee on Publication Ethics (COPE). Integrity, transparency in computational methods, responsible data use, and ethical treatment of human or AI-generated data are essential principles for all published work.

Types of Manuscripts Accepted

Original Research Articles

Comprehensive studies presenting new theoretical models, computational methods, algorithmic innovations, or applied solutions in smart technologies and computational systems. Submissions should include a clear research problem, robust methodology, experimental validation or simulation results, and well-founded conclusions.

Review Articles

Scholarly overviews synthesizing current knowledge in fields such as artificial intelligence, automation, cyber-physical systems, smart cities, digital education technologies, cybersecurity, or data-driven engineering. Reviews should critically evaluate existing research and propose meaningful directions for future study.

Short Communications

Concise reports presenting preliminary findings, novel algorithms, prototype demonstrations, or methodological insights relevant to intelligent systems or computational engineering. These papers are suitable for rapid publication of impactful results.

Initial Submission and Review Process

All manuscripts submitted to the *Journal of Smart Technologies and Computational Systems* undergo an initial editorial screening to ensure alignment with the journal's thematic focus, ethical standards, and formatting requirements.

Only manuscripts meeting these criteria will proceed to double-blind peer review.

Authors must submit a cover letter briefly addressing the following:

- A concise explanation of the scientific significance, originality, or technological relevance of the study.
- Confirmation that all necessary approvals (e.g., computational data licenses, software ethics compliance, human/AI data usage permissions) have been obtained.
- For ongoing research, an anticipated timeline for completion if relevant.
- A statement regarding data transparency, indicating willingness to share datasets, code, simulation files, or supplementary materials — or explaining any limitations due to confidentiality, intellectual property, or security considerations.

Pre-submission inquiries are welcome for authors uncertain about the suitability of their manuscript. However, a complete manuscript must be submitted for the peer review process to begin.

Manuscript Preparation

1. Formatting and Structure

Manuscripts should be prepared in Microsoft Word or LaTeX format and written in clear, academically appropriate English. Authors must ensure that the manuscript is logically organized, technically accurate, and formatted according to the journal's style guidelines.

To maintain consistency and readability, submissions should follow the standardized structure described below:

Title Page

Title

The title must be concise, specific, and informative — clearly reflecting the core focus of the study (e.g., intelligent systems, computational modeling, automation, data analytics, smart

technologies, AI-based methods, or cyber-physical system design). Avoid vague expressions, unexplained abbreviations, or overly general titles.

A well-formulated title should immediately communicate the technical essence and scientific relevance of the work.

Author Names and Affiliations

Provide full names, institutional affiliations, department names, and postal addresses for all authors. Superscript numerals may be used to link each author with their respective affiliation.

Corresponding Author

Designate one author who will be responsible for communication during submission, peer review, and publication. Include an active and reliable email address.

ORCID IDs

Authors are encouraged to include ORCID identifiers to ensure accurate indexing, citation tracking, and author identity verification across scholarly databases.

Abstract

The abstract should provide a clear, concise, and comprehensive summary of the study (maximum 300 words). It must briefly describe:

- Background and context
- Research objectives and problem statement
- Methods or computational techniques used
- Key results, findings, or system performance outcomes
- Main conclusions and scientific contributions

The abstract should be understandable without reference to the full text. Avoid in-text citations, undefined abbreviations, or excessive technical details.

Keywords

Provide 4–6 specific keywords that accurately represent the core themes of the work. Keywords should reflect standard terminology used in computational sciences and smart technology research — such as machine learning, cyber-physical systems, smart automation,

deep learning, IoT, big data analytics, or intelligent control systems — to support indexing and discoverability.

Main Text

Introduction

The Introduction should clearly:

- Describe the research problem and scientific significance
- Define the gap in existing knowledge or technological limitations
- Outline the main objectives and contributions of the study
- Provide a brief but relevant literature review to contextualize the research within computational systems, intelligent technologies, automation, or data-driven engineering

Once submitted, the Introduction and any predefined hypotheses should not be modified unless recommended during the editorial review process.

Materials and Methods / Methodology

Describe the study design, experimental setup, computational models, algorithms, datasets, simulations, hardware platforms, or analytical procedures in sufficient detail to allow replication by other researchers.

For computational and engineering research, this section should include (as applicable):

- Description of datasets, benchmarks, or simulation environments
- Algorithmic frameworks, model architectures, or computational pipelines
- Hardware specifications (e.g., GPU/CPU, embedded systems, IoT devices)
- Experimental settings, hyperparameters, and evaluation metrics
- Software tools, libraries, and programming languages used
- Statistical or analytical methods applied
- Reproducibility notes and access to code or data, when possible

If previously published methods are used, they must be properly cited, and any modifications must be clearly described.

Ethical considerations should be addressed where relevant (e.g., use of human–computer interaction data, privacy-sensitive datasets, AI ethics compliance, or cybersecurity testing protocols).

Results

The Results section should present findings clearly and logically, using tables, figures, graphs, and visualizations where appropriate.

- Do not repeat the same data in both the text and visual elements.
- Results should highlight model performance, computational efficiency, statistical significance, comparative analyses, or system behavior depending on the nature of the study.
- If the study includes supplementary or exploratory analyses (e.g., additional datasets, extended simulations, ablation studies, sensitivity analyses), these should be placed in a dedicated “Exploratory Analyses” subsection.
- Such material should not overshadow the primary results (generally maintaining a 1:1 balance with the main findings).
- Authors must notify the editors before adding new experimental content during the revision stage.

All statistical or computational evaluation results must include:

- Exact p-values (where applicable)
- Confidence intervals or uncertainty estimates
- Effect sizes or relevant performance metrics (e.g., accuracy, F1-score, RMSE, convergence rates, latency, throughput)

The number of tables and figures in the main text should not exceed five. Additional visual elements must be provided in the Online Supplemental Material section.

Discussion

The Discussion section should interpret the results within the context of existing research in smart technologies, computational modeling, artificial intelligence, or system engineering.

Authors should:

- Explain the theoretical, technical, or practical significance of the findings

- Highlight methodological innovations, system improvements, or new insights
- Discuss implications for real-world applications such as intelligent automation, smart city platforms, CPS monitoring, digital education systems, or data-driven decision-making
- Address limitations transparently and propose directions for future research

The Discussion should extend beyond simply restating the Results; it should provide meaningful interpretation and demonstrate how the study advances the field.

Conclusion

Provide a concise synthesis of the main findings and emphasize their broader significance for smart systems, computational engineering, or intelligent digital infrastructures.

The Conclusion may also:

- Suggest areas for future investigation
- Highlight potential interdisciplinary applications
- Identify opportunities for technological innovation, system integration, or algorithmic enhancement

Acknowledgments

Authors should acknowledge individuals, institutions, or organizations that contributed to the research but do not meet authorship criteria.

This may include:

- Technical assistance or laboratory support
- Code contributions or access to computational resources
- Dataset provision or platform access
- Valuable feedback on algorithms, simulations, or system design

Written consent must be obtained from all individuals mentioned in the Acknowledgments section.

Funding Information

All funding sources that supported the research must be fully disclosed. Please list:

- Funding organization(s)
- Grant numbers
- Project titles (if applicable)
- Institutional support

If no specific funding was received, include the statement: "This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors."

Authors may also mention institutional computing grants, GPU/cluster access, or software licenses provided through research labs or innovation centers.

Conflict of Interest Statement

Authors must declare any financial, professional, or personal conflicts of interest that could influence the interpretation or presentation of results.

If no conflicts exist, the following statement must be included: "The authors declare that there are no conflicts of interest regarding this publication."

This policy ensures transparency and protects the integrity of research involving intelligent systems, computational models, cybersecurity, and data-driven technologies.

References

All works cited in the manuscript must appear in the Reference List and be formatted consistently and accurately.

Completeness and Accuracy

Each reference must include full bibliographic details, including:

- Author(s)
- Publication year
- Article or book title
- Journal or publisher

- Volume and issue (if applicable)
- Page numbers
- DOI or URL (when available)

Citation Style

The journal follows APA 7th Edition referencing standards. In-text citations must correspond exactly to entries in the reference list.

Balance and Relevance

Authors should cite recent, high-quality, peer-reviewed sources relevant to computational systems, artificial intelligence, machine learning, smart technologies, cyber-physical systems, data science, cloud computing, IoT, automation, cybersecurity, or other related fields.

Avoid citing:

- Unpublished material
- Non-indexed documents
- Inaccessible reports unless essential for methodological or theoretical justification.

Tools

To ensure accuracy, authors are encouraged to use reference management software such as Mendeley, Zotero, EndNote, or similar tools.

Figures and Tables

Figures and tables should visually support and clarify the text, particularly when presenting computational models, system architectures, performance metrics, simulation outputs, data visualizations, or algorithmic comparisons.

Figures

Submit high-resolution files (minimum 300 dpi) in JPEG, PNG, TIFF, or EPS formats.

Each figure must include:

- A clear and descriptive caption

- Consecutive numbering (Figure 1, Figure 2, …)
- Readable labels, legends, axes, and symbols

Figures presenting system architectures, neural network diagrams, flowcharts, software pipelines, or experimental setups must include:

- Model/component labels
- Framework references
- Dataset sources (if applicable)
- Hardware or simulation environment details

Figures using third-party data, screenshots, or visualization tools must respect licensing and ethical use standards and include appropriate attribution.

Tables

Prepare tables in editable formats (Word, Excel, or LaTeX) rather than images.

Each table must include:

- A concise and informative title
- Clearly labeled columns and rows
- Footnotes where necessary (e.g., abbreviations, dataset descriptions, metric definitions)

Large datasets should be summarized, with full tabular data uploaded as Online Supplementary Materials.

Guidelines for Registered Reports (RR) Using Existing Data

The Journal of Smart Technologies and Computational Systems welcomes Registered Reports (RR) based on secondary analysis of publicly available or pre-existing datasets relevant to computational science, AI, CPS, IoT, cybersecurity, smart cities, digital learning analytics, or related fields.

Eligible datasets may include:

- Public machine learning repositories (e.g., Kaggle, UCI Machine Learning Repository)
- Open-source IoT or sensor datasets

- Simulation logs or benchmark datasets used in AI and robotics
- Public cloud computing datasets
- National or institutional archives for digital systems research
- Open data for smart cities, mobility, or digital governance (e.g., Open Data Portal, EU Open Data, US Data.gov)

If authors wish to use proprietary datasets

They should consult the editorial board before submission to confirm eligibility and ensure compliance with ethical, legal, and licensing requirements.

Key Requirements for Data Analysis and Reporting

1. Publicly Accessible Data

All datasets used in RR submissions must be accessible through credible repositories such as:

- Zenodo, Figshare, Dryad, OSF
- Institutional or national open data platforms
- GitHub/GitLab (for code + data), provided long-term availability is ensured

Authors must include:

- Metadata
- Data documentation (data dictionary or README)
- Permanent repository link (DOI preferred)

2. Analytical Rigor

Since Registered Reports utilize pre-existing datasets, reviewers will apply a high standard of analytical and computational rigor.

Analyses must employ robust statistical, algorithmic, or computational methods appropriate to the dataset, such as:

- Classical and modern statistical models
- Machine learning and deep learning approaches
- Signal processing techniques

- Simulation-based modeling
- Time-series analysis
- Network analysis
- Optimization algorithms
- Spatial or spatiotemporal analysis (for IoT, sensor or mobility data)

The selected analytical methods must be justified, reproducible, and suitable for the scale, complexity, and structure of the dataset.

3. Model Validation

To ensure reliability and to avoid overfitting or model bias:

- Datasets must be divided into appropriate training, validation, and testing subsets (e.g., 70/15/15, 80/20, or cross-validation schemes).
- Validation strategies (e.g., k-fold cross-validation, bootstrapping, Monte Carlo validation) must be described clearly.
- Performance metrics must be reported consistently (e.g., accuracy, F1-score, MAE, RMSE, precision/recall, AUC, latency, throughput).

Model assumptions, constraints, or hyperparameter-tuning procedures must also be transparently detailed.

4. Comparative or Integrative Analysis

Authors are strongly encouraged to compare different models, techniques, or computational approaches to justify the selection of the optimal analytical method.

Examples include:

- Comparing machine learning models (e.g., Random Forest vs. XGBoost vs. deep learning)
- Benchmarking neural architectures (e.g., CNN vs. Transformer-based models)
- Comparing optimization strategies (e.g., gradient-based vs. evolutionary algorithms)
- Evaluating algorithmic performance across datasets or computational environments
- Cross-system comparisons for CPS, IoT, or smart city data

The manuscript should clearly demonstrate why the chosen model or framework provides the most reliable and efficient solution.

5. Complementary Studies

When feasible, authors are encouraged to incorporate or preregister complementary validation efforts such as:

- Small-scale real-world tests
- Hardware-level verifications (embedded systems, IoT devices, CPS components)
- Controlled experiments
- Benchmarking on additional datasets
- User studies (for HCI or digital learning systems)

These can significantly strengthen the reliability and generalizability of findings derived from secondary data.

Final Manuscript Structure and Editorial Review

Submitted manuscripts must strictly follow the approved Stage 1 research plan. Any deviation should be minimal, well-justified, and approved by the editorial team.

Supplementary Materials

No appendices are allowed.
All extended materials — such as:

- Additional figures,
- Detailed tables,
- Raw datasets or logs,
- Source code, scripts, or configuration files,
- Model training details,
- Simulation outputs

must be uploaded in the Online Supplementary Material section.

Immutable Sections

The following sections cannot be altered (except for minor editorial improvements):

- Introduction
- Main hypotheses or research objectives

Methods Section

Must describe any small deviations from the preregistered protocol and justify them clearly, ensuring transparency and reproducibility.

Results Section

The Results must clearly distinguish:

- “Preregistered Findings” — the analysis approved at Stage 1
- “Exploratory Findings” — any additional analyses (if allowed)

Editorial Review Criteria

During the final editorial review, emphasis will be placed on:

1. Protocol adherence:

Ensuring all analyses were conducted exactly as pre-approved.

2. Data integrity:

All results must be authentic, reproducible, and derived from the provided datasets.

3. Conclusion justification:

Interpretations must logically follow from the reported data and computational results.

Importantly: editorial decisions are not based on the novelty, size, or direction of the results. If the approved protocol is followed faithfully, the article will be accepted regardless of outcome.

Protocol and Publication Requirements

1. Transparency

Upon final submission, authors must provide:

- Full datasets

- Code scripts (e.g., Python, R, MATLAB, C++, Java)
- Machine learning pipelines
- Simulation files
- Configuration details
- Documentation for reproducibility

These materials will be used for editorial verification.

2. Protocol Adherence

For studies that received In-Principle Acceptance (IPA), publication depends on strict compliance with the preregistered methodology.

Even minor deviations must be reported to the editorial board before completing analysis or running additional computational experiments.

3. Exploratory Analysis

Analyses not included in the preregistered plan are typically not permitted. Minor descriptive or interpretive additions may be accepted if they are:

- Clearly labeled as “Exploratory”
- Scientifically valid
- Not influencing preregistered outcome measures

Ethical and Legal Considerations

Originality

All submissions must represent original research and must not be under review or published elsewhere.
Simultaneous submission to multiple journals is strictly prohibited.

Plagiarism

All manuscripts are screened using advanced plagiarism-detection software. Submissions with more than 15% similarity (excluding references, code blocks, and appendices) may be returned without review.

Data Transparency

Authors must ensure that all computational, experimental, simulation-based, or digital-system data are accurately reported.
Datasets, code, and algorithmic workflows should be made available upon request for verification, unless restricted due to licensing, confidentiality, or cybersecurity constraints.

Human and Animal Research

Studies that involve human participants (e.g., user studies, HCI experiments, surveys, biometric datasets) or animal subjects (e.g., robotics interacting with biological systems) must include an appropriate institutional ethical approval statement.
Research involving user data must comply with relevant privacy laws (GDPR, etc.).

Conflict of Interest

Authors must declare any potential financial, institutional, personal, or collaborative conflicts of interest that may influence their study.
If no conflicts exist, include:
"The authors declare no conflict of interest."

Publication and Withdrawal Policies for Registered Reports

The journal maintains full transparency by listing all In-Principle Accepted (IPA) manuscripts in an Advanced Content Registry on the journal website.

Withdrawal of IPA Manuscripts

If authors withdraw a manuscript after receiving IPA (due to technical, computational, or methodological issues), the *entire* manuscript must be withdrawn.
Partial withdrawal (e.g., removing a dataset, component, or subsystem) is not permitted.

Withdrawn manuscripts will be publicly listed in a Withdrawn Registrations archive, including:

- Author names
- Original title and abstract
- Brief explanation for withdrawal

This ensures transparency and protects research integrity.

Incremental Registrations

Authors may submit Incremental Registrations to include additional datasets, extended simulations, new model variants, or follow-up analyses (e.g., upgraded architectures, later data versions, or expanded computational experiments).

These submissions undergo a fast-track Stage 1 review.
If not approved, authors retain the right to publish the previously accepted version of the research.

Replication Studies

The journal actively encourages Replication Studies, particularly those that:

- Validate computational results
- Verify AI/ML models on new datasets
- Test CPS or IoT systems under different conditions
- Examine reproducibility of digital or algorithmic methods

When possible, collaborative replication with original authors is recommended.

If collaboration is not feasible, original authors may be invited to:

- Write a commentary
- Submit their own preregistered replication protocol

Reference Examples

All references must follow APA 7th Edition accurately and consistently. Authors must ensure accessibility, correctness, DOIs where available, and proper formatting.

For sources in non-Latin scripts, include transliteration and English translation in brackets.

Below are updated examples relevant to smart technologies and computational systems:

Journal Article Example

Rahimli, U., & Huseynova, S. (2024). Deep learning–based optimization of cyber-physical monitoring systems in smart manufacturing. *Journal of Intelligent Systems Engineering, 12*(3), 221–235. https://doi.org/10.xxxx/jise.2024.1203

Book Example

Goodfellow, I., Bengio, Y., & Courville, A. (2016). *Deep learning*. MIT Press.

Chapter in an Edited Book Example

Zhang, L. (2022). Edge computing architectures for next-generation IoT ecosystems. In M. K. Suresh & A. Verma (Eds.), *Advances in smart systems and digital technologies* (pp. 45–70). Springer.

Conference Paper Example

Aliyev, T. (2024). A reinforcement learning framework for adaptive energy management in smart grids. In *Proceedings of the IEEE International Conference on Smart Computing*, 8(1), 120–127.

Website Example

European Union Open Data Portal. (2024). Smart mobility datasets for urban AI systems. https://data.europa.eu

Newspaper Article Example

Karimova, R. (2023, October 14). How AI is transforming cybersecurity in the digital age. *The Tech Times*, p. B4.

Dataset or Repository Example

UCI Machine Learning Repository. (2023). Real-time IoT device activity dataset (Version 2.0) [Data set]. https://archive.ics.uci.edu

Non-Latin Script Example

Rzayev, A. [Рзаев, A.] (2022). Süni intellekt əsasında ağıllı nəqliyyat sistemlərinin modelləşdirilməsi [Modeling intelligent transportation systems using AI]. *Rəqəmsal Texnologiyalar Jurnalı*, 5(1), 33–48.

Online Forum or Digital Discussion Example

Stack Overflow. (2024, June 15). Best practices for deploying large language models in production environments [Forum post]. https://stackoverflow.com