AUTHOR MANUSCRIPT TEMPLATE

Insert a concise and informative manuscript title in sentence case

First Author[1], Second Author[2] and Corresponding Author[1],*
[1] Department, Institution, City, Postal Code, Country
[2] Department, Institution, City, Postal Code, Country
* Correspondence: institutional.email@domain.org; ORCID: 0000-0000-0000-0000

Abstract: Background: State the problem and objective. Methods: Describe the design, data, materials, and analysis. Results: Report the principal quantitative findings and uncertainty. Conclusions: State the main conclusion and engineering significance. Use 180-250 words and do not cite references.
Keywords: keyword 1; keyword 2; keyword 3; keyword 4; keyword 5

Highlights
- State the principal technical contribution in no more than 85 characters.
- State the most important quantitative or practical finding.
- State the principal implication for engineering research or practice.

Author note: Replace every placeholder and delete all instructional text before submission.

1. Introduction

Establish the engineering problem, synthesize the relevant literature, identify the unresolved gap, and state the objective, research questions, or hypotheses. End with a concise statement of the contribution and how it differs from prior work. Cite sources using the mandatory JAILT Numeric Reference Style, for example [1], [2,3], or [4-7].

Contribution statement. *In two to four sentences, explain precisely what is new, why it matters, and what evidence supports the claim.*

2. Materials and Methods

Provide sufficient detail to allow an independent researcher to understand and reproduce the work. State software versions, hardware, datasets, protocols, parameter settings, units, assumptions, and access conditions.

2.1. Study design or system architecture

Describe the overall design, experimental plan, simulation environment, physical system, control architecture, or analytical framework.

2.2. Data, materials, and preprocessing

Describe sources, sampling, inclusion criteria, preprocessing, missing-data handling, transformations, and quality-control procedures.

2.3. Model, algorithm, or experimental procedure

Define the method and all symbols before use. Distinguish fixed design choices from tuned hyperparameters. Give enough information for reproduction.

$$y_i = f(x_i; \theta) + \varepsilon_i, \quad i = 1, \ldots, n \tag{1}$$

Define every symbol immediately before or after the equation. Use SI units and number only equations cited in the text.

2.4. Evaluation and statistical analysis

Define outcomes, baselines, metrics, validation strategy, statistical tests, uncertainty intervals, multiple-comparison adjustments, and decision thresholds.

2.5. Reproducibility record

Item	Required information
Code and scripts	Repository URL / DOI / access conditions
Data	Repository URL / DOI / license / restrictions
Software	Name, version, operating system, principal packages
Hardware	Processor/GPU, memory, instrumentation, calibration

Item	Required information
Randomness	Seeds, repeated runs, initialization, stochastic controls
Protocol	Preregistration, standard, or full experimental protocol

Note: Complete every applicable row. Use “Not applicable” only when justified.

3. Results

Present findings without repeating every value in both text and tables. Report effect sizes, uncertainty, variability, sample sizes, and practical significance where applicable.

3.1. Primary findings

Table 1. Comparative performance of the proposed method and reference baselines.

Method	RMSE	MAE	R^2	Runtime (s)
Proposed method	0.124	0.091	0.947	12.4
Baseline A	0.151	0.113	0.921	8.7
Baseline B	0.168	0.128	0.903	5.9

Note: Report units in column headings, use consistent decimal places, define all abbreviations, and place significance or source notes below the table. Do not use vertical rules.

Refer to each table in numerical order and summarize the pattern rather than restating all values.

Table 2. Accuracy, interval coverage, and runtime across evaluation settings.

Evaluation setting	RMSE	MAE	95% CI coverage (%)	Runtime (min)
Setting 1	0.124	0.091	94.8	2.6
Setting 2	0.132	0.097	95.1	3.1
Setting 3	0.141	0.103	94.5	3.9

Note: 95% CI coverage is the empirical percentage of intervals containing the target quantity. Runtime is wall-clock time in minutes. Values are illustrative.

Insert editable figure at the intended location

Figure 1. Provide a self-contained caption that defines all symbols, panels, abbreviations, uncertainty displays, and sample sizes. Add alternative text to the figure in Word.

4. Discussion

Interpret the findings in relation to the objectives and literature. Explain mechanisms, uncertainty, engineering relevance, generalizability, and alternative interpretations. Do not simply repeat the Results.

4.1. Comparison with previous work

Compare findings with the most relevant studies and explain agreements or discrepancies.

4.2. Engineering and practical implications

Explain what engineers, managers, policy makers, or system designers can do differently because of the results.

4.3. Limitations and threats to validity

Discuss internal, external, construct, and statistical validity where relevant. State how limitations affect interpretation.

5. Conclusions

State the principal conclusion, its scope, the most important practical or theoretical implication, and the next research step. Avoid unsupported claims and do not introduce new results.

Declarations

Author contributions

Use the CRediT taxonomy. Example: Conceptualization, A.A. and B.B.; Methodology, A.A.; Software, C.C.; Validation, B.B.; Formal analysis, A.A.; Writing - original draft, A.A.; Writing - review and editing, all authors.

Funding

State the funder and grant number, or: “This research received no external funding.”

Institutional review board statement
Provide approval details, protocol number, and date, or state “Not applicable.”

Informed consent statement
Provide the statement required for the study, or state “Not applicable.”

Data availability
State where the data can be found, including DOI/URL, license, embargo, and access conditions. Avoid “available on request” unless restrictions are justified.

Code availability
State where source code, scripts, models, or executable artifacts can be accessed and identify the version used in the article.

Use of generative artificial intelligence
Disclose any generative-AI assistance in drafting, translation, coding, figure generation, or analysis. Authors remain responsible for accuracy, originality, and confidentiality.

Conflicts of interest
Declare all relevant financial and non-financial interests, or: “The authors declare no conflicts of interest.”

Acknowledgments
Recognize non-author contributions. Remove this section from the blinded manuscript when it could reveal identity.

References

JAILT NUMERIC REFERENCE STYLE - MANDATORY
Use square-bracket citations in first-appearance order: [1], [2,3], [4-6], and [1,3-5,8]. Place citations before final punctuation. The reference list is never alphabetized. Use journal abbreviations and DOI links in the form https://doi.org/... .

[1] A.A. Author, B.B. Author, Article title in sentence case, Abbrev. J. Title 18 (2026) 101-115. https://doi.org/10.xxxx/jailt.2026.00101.

[2] C.C. Author, D.D. Author, Article title with an article number, Eng. Syst. Res. 9 (2026) 104321. https://doi.org/10.1234/esr.2026.104321.

[3] E.E. Author, Book Title in Title Case, second ed., Publisher, City, 2025.

[4] F.F. Author, Chapter title in sentence case, in: G.G. Editor, H.H. Editor (Eds.), Book Title in Title Case, Publisher, City, 2025, pp. 85-110. https://doi.org/10.1234/book.2025.ch4.

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[7] L.L. Author, Software title, version 3.4.1, Software Repository, 2026. https://doi.org/10.1234/software.2026.341.

[8] Organization Name, Title of the web page, https://www.example.org/page (accessed 17 July 2026).

Appendix A. Supplementary derivations or implementation details

Use appendices for substantial material required to understand or reproduce the work but not central to the main narrative.