Insert a concise specific system-oriented title of no more than 20 words

Abstract

Write a single abstract of 150–250 words. Clearly state the background and problem context, study objective, methodology, key findings, and main contribution. Avoid citations and undefined abbreviations. Replace this guidance with the abstract.

Keywords

Keyword 1; Keyword 2; Keyword 3; Keyword 4; Keyword 5; Keyword 6

Provide 3–6 keywords. Avoid repeating words already used in the title.

1. Introduction

Define the research problem and establish its relevance to civil infrastructure systems. Present the literature gap, state the research objective, and highlight the novelty. Clearly state the contribution at the end of this section.

2. Literature Review (if applicable)

Summarize relevant state-of-the-art research, identify theoretical or methodological gaps, and justify the need for this study. Provide a critical synthesis rather than a purely descriptive review. Omit this section if it is not applicable and renumber the subsequent sections consistently.

3. Methodology

Describe the theoretical framework, modeling approach or experimental design, and data collection procedures. State the assumptions, boundary conditions, parameters, and variables. Provide sufficient detail to enable reproducibility. Use the Word equation editor for equations, SI units, and defined symbols and abbreviations.

4. Results

Present findings in a logical order and provide quantitative analysis. Number tables and figures sequentially and cite each one in the text. Use editable text for tables and clear, readable figures. Avoid repeating the content of tables in the narrative.

5. Discussion

Interpret the results by comparing them with previous studies, explaining their system-level implications, identifying limitations, and addressing uncertainty or sensitivity where relevant. The discussion must go beyond description.

6. Conclusions

Provide concise, structured conclusions that summarize the key findings, highlight the scientific contribution, emphasize practical implications, and suggest future research directions. Avoid repeating the abstract.

Funding

State the funding source, if applicable. For the anonymized review manuscript, withhold identifying funding details and provide them separately as required by the journal.

Conflict of Interest

Declare any conflicts of interest. If none exist, use: “The authors declare no conflict of interest.”

Data Availability Statement

State where the supporting data can be accessed and provide a repository link where available. If the data are available on request, state this accurately. If the data cannot be shared, explain the reason, such as confidentiality.

Acknowledgements (Optional)

Include acknowledgements only when appropriate. Omit acknowledgements and author-identifying information from the anonymized manuscript submitted for double-blind review; provide them separately.

References

Insert all references cited in the manuscript and ensure that every listed reference is cited in the text. Use one consistent citation and reference style, include DOIs where available, prioritize recent and relevant international literature, and avoid excessive self-citation.

Formatting Requirements

Delete these instructions and replace all bracketed guidance before submission. Write the manuscript in clear academic English. Submit author names, affiliations, and corresponding-author details separately from the anonymized main manuscript.

File format: DOCX.

Page size: A4.

Line spacing: 1.15–1.5; this template uses 1.5.

Font: Standard academic font; this template uses Times New Roman 12 pt for body text.

Equations: Use the Word equation editor.

Units and notation: Use SI units and define all symbols and abbreviations.

Tables and figures: Number sequentially, cite in the text, and use editable tables.