



Write Your Article Title Here Using Title Case: Maximum 15 Words, Clear and Descriptive

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Abstract

Write your abstract as a single, self-contained paragraph of 150–250 words. The abstract must clearly convey the research problem and its significance, the methodological approach employed, the principal findings, and the implications of those findings. As the most-read part of your submission, the abstract should be written with precision and independence from the body text. Avoid citations, undefined abbreviations, and excessive methodological detail. Write in the past tense for what was done and in the present tense for conclusions that hold.

Keywords: software engineering; keyword two; keyword three; keyword four; keyword five

1. Introduction

The introduction situates your work within the broader landscape of software engineering research and establishes the intellectual motivation for your study. Begin by describing the domain and the practical or theoretical problem that prompted this research. As you build context, draw on recent and seminal literature to demonstrate your familiarity with the field and to identify the gap your work addresses [1]. Tekinfo Transactions on Software Engineering (InfoSE) welcomes research that advances knowledge across the full spectrum of software engineering, including but not limited to software architecture and design patterns, secure software development, AI-assisted engineering, human-computer interaction, software quality assurance, and emerging paradigms such as cloud-native and IoT-embedded systems.

After establishing context, articulate the specific problem or research question with precision. State why the problem is significant and why existing solutions are insufficient. Close the introduction with a paragraph that defines the objectives of the study and briefly describes how the remainder of the paper is organised. The introduction should be approximately one to two pages in length and must not include detailed results or conclusions.

2. Related Work

The related work section contextualises your contribution relative to the existing body of knowledge. Synthesise prior research thematically rather than as a chronological catalogue of individual papers. Organise the literature around the core concepts, methods, or challenges most relevant to your study, identifying both areas of consensus and open questions that your work addresses [2]. Where prior approaches differ in assumption, scope, or methodology, make those distinctions explicit so the reader understands the specific niche your research occupies. Conclude the section with a brief summary of the gap in the literature that motivates your work and that will be addressed in the subsequent sections.

3. Methods

The methodology section provides a complete and replicable account of how the study was conducted. Describe your research design, the rationale for choosing it, and the data or systems on which the work is based. Explain data collection or experimental procedures in sufficient detail that an independent researcher could reproduce your work. Identify all tools, frameworks, programming languages, and evaluation environments used, specifying version numbers where relevant. If your methodology involves novel techniques, explain them thoroughly; for well-established approaches, a concise description with appropriate references is acceptable [3].

3.1 Research Design

Describe the overarching design of your study. Clarify whether your approach is experimental, observational, design-science based, or a systematic review, and justify the choice in the context of your research question. Discuss how the design controls for confounding factors and how validity and reliability are ensured.

3.2 Implementation and Tools

Detail the software, hardware, datasets, and frameworks used in the implementation or evaluation. If a custom artefact was developed, describe its architecture concisely and include a reference to a publicly accessible repository where applicable. Specify evaluation metrics and explain why they are appropriate for your objectives.

$$\text{Accuracy} = (TP + TN) / (TP + TN + FP + FN) \quad (1)$$

Equations are numbered sequentially using Arabic numerals in parentheses, right-aligned. Refer to equations in the text as Equation (1).

Table 1. Experimental Environment Configuration

Component	Specification	Version / Detail
Operating System	Ubuntu / Windows Server	22.04 LTS / 2022
Programming Language	Python / Java	3.11 / 17 LTS
Framework / Library	Framework Name	X.X.X
Hardware	CPU, RAM, GPU	Specify configuration
Dataset	Dataset Name or Source	N = X samples

Tables are numbered consecutively with captions placed above. All tables must be referenced in the text (e.g., as shown in Table 1).

[Insert Figure Here — minimum 300 dpi, width ≤ 14 cm]

Figure 1. Caption describing the figure content and its key message

Figures are numbered consecutively with captions placed below. All figures must be cited in the text (e.g., as illustrated in Figure 1). Ensure sufficient resolution for print reproduction.

4. Results and Discussion

The results and discussion section constitutes the intellectual core of your paper. Present your findings in a logical order that mirrors the structure established in the methodology section, and integrate your interpretation of those findings directly rather than separating raw results from their analysis. For each principal result, explain what was observed, why it is significant, and how it compares with related work reported in the literature [4]. Use tables and figures to present complex quantitative data efficiently, but ensure that the accompanying narrative conveys the essential message independently of the visual elements.

When your results confirm prior findings, discuss the consistency and what it adds to cumulative knowledge. When your results diverge from expectations or prior work, offer a thoughtful explanation grounded in the experimental conditions, dataset characteristics, or methodological differences. Do not overstate findings or draw conclusions that exceed the scope of your evidence. Acknowledge limitations transparently, and use them to motivate directions for future research. This section should demonstrate analytical depth and scholarly rigour throughout.

4.1 Quantitative Results

Present the quantitative outcomes of your evaluation here. Refer to tables and figures by their numbers and discuss the patterns, trends, and statistically significant differences that emerge. Where applicable, report confidence intervals, standard deviations, or effect sizes to contextualise the magnitude of observed differences.

4.2 Qualitative Analysis

If your study includes qualitative observations, case studies, or illustrative examples, present them here. Describe how the qualitative evidence complements or nuances the quantitative findings. Where user studies, expert evaluations, or system demonstrations were conducted, summarise the outcomes and their implications.

4.3 Comparison with Related Work

Situate your findings in relation to the studies reviewed in Section 2. Discuss similarities and differences in performance, methodology, or scope. Be precise about the conditions under which comparisons are valid, and qualify any claims that rely on indirect or approximate comparison.

5. Conclusion

The conclusion synthesises the principal contributions of your work and articulates their significance to the software engineering community. Begin by restating the research problem and summarising the key findings in your own words, without introducing new data or claims. Describe the original contribution your work makes — whether it is a novel method, an empirical evaluation, a design artefact, or a conceptual framework — and connect it to the gap identified in the introduction. Discuss the practical implications for software developers, architects, or system designers where relevant. Close with a forward-looking perspective that identifies the most promising directions for future research, noting the specific limitations of the current study that those directions would address. The conclusion should be approximately one paragraph of 150–200 words and should not contain citations.

Acknowledgments

The authors wish to thank [names of individuals or organisations] for [specific contribution, e.g., technical assistance, access to datasets, funding support]. This research was supported by [funding body] under grant number [XXXX]. [Remove this section if there are no acknowledgments to declare.]

References

InfoSE follows the IEEE citation style. In-text citations appear as numbered superscripts or bracketed numbers in order of first appearance [1]. The reference list is ordered by citation number, not alphabetically. Include the DOI for all references where available. Research articles must cite a minimum of 20 primary sources; review articles must cite at least 40. Use citation management software to ensure consistency.

- [1] A. Author and B. Author, "Title of journal article," Journal Abb, vol. X, no. X, pp. X–X, Month Year, doi: 10.XXXXX/XXXXXX.
- [2] C. Author, "Title of conference paper," in Proc. Int. Conf. Software Engineering (ICSE), City, Country, Year, pp. X–X, doi: 10.XXXXX/XXXXXX.
- [3] D. Author, Title of Book, Edition. Publisher City: Publisher Name, Year.
- [4] E. Author, "Title of thesis," Ph.D. dissertation, Dept. Computer Science, University Name, City, Country, Year.
- [5] F. Author, "Title of technical report," Organisation Name, Tech. Rep. TR-XXXX, Month Year. [Online]. Available: <https://example.org/report>.

Submission Checklist

Before submitting your manuscript to InfoSE, please confirm that all of the following conditions are satisfied. Manuscripts that do not meet these requirements will be returned without review. The manuscript is between 6 and 15 pages inclusive of all figures, tables, and references. The article title does not exceed 15 words and does not include acronyms that are undefined. All author names are listed without academic titles; affiliations include department, institution, city, and country. A corresponding author email address is provided. The abstract is a single paragraph of 150–250 words, followed by three to six keywords separated by semicolons. All sections follow the structure prescribed in this template. Figures are a minimum of 300 dpi in resolution, with captions placed below and numbered consecutively. Tables carry captions above and are numbered consecutively. All equations are centred and numbered sequentially in parentheses. References conform to IEEE style, with DOIs included where available, and the minimum number of primary sources is met. The manuscript has been proofread for grammatical and typographic accuracy. No supplementary or non-anonymised files are included in the initial submission if double-blind review is required.

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