
**Title is in english max 14 words center alignment bold times new
roman (14pt) sentence case**

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Abstract

The abstract must be written in English as a single paragraph with a length of 200–250 words. It should provide a concise and comprehensive summary of the research, enabling readers to understand the purpose, methodology, major findings, and significance of the study without referring to the full manuscript.

The abstract should clearly include the following components:

1. **Background:** Briefly describe the research context, problem statement, or motivation.
2. **Objective:** Clearly state the purpose or research objective.
3. **Methods:** Summarize the research methodology, algorithm, framework, dataset, experimental design, or analytical approach employed.
4. **Results:** Present the most significant findings using quantitative results whenever possible. Avoid vague statements such as "the proposed method performs better" without supporting evidence.
5. **Conclusion:** State the main conclusion, contribution, and practical or scientific significance of the research.

The abstract must be written in an objective and academic style, without citations, equations, figures, tables, footnotes, or unexplained abbreviations. References to previous studies should not be included. The use of quantitative performance indicators (e.g., accuracy, precision, recall, F1-score, RMSE, MAE, response time, or other relevant evaluation metrics) is strongly encouraged whenever applicable.

Keywords: Keyword_1; Keyword_2; Keyword_3; Keyword_4; Keyword_5.

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1. INTRODUCTION (HEADING 2)

The Introduction provides the foundation of the research by explaining the background, significance, and motivation of the study. This section should establish the context of the research problem, describe its practical or theoretical importance, and demonstrate why the study is necessary. Authors are expected to present a clear and logical narrative supported by recent and relevant literature, primarily from reputable journals published within the last five years, to reflect the current state of knowledge in the field.

A well-written Introduction should include: (1) a comprehensive description of the **research background** and the real-world problem or scientific phenomenon being addressed; (2) a critical review of related studies to identify the current state of the art and highlight limitations or unresolved issues in **previous research**; (3) a clear statement of the **research gap** that justifies the need for further investigation; (4) the novelty or originality of the proposed research, explaining how the study differs from and improves upon existing work; (5) the **research objectives** formulated to address the identified gap; and (6) the expected scientific and practical **contributions** of the study. The final paragraph of the Introduction should briefly describe the organization of the remainder of the paper.

The Introduction should be written in a concise, coherent, and academic style, with all arguments supported by appropriate citations. Excessive theoretical discussion unrelated to the research objectives should be avoided. The recommended length of this section is 600–1,000 words, using Times New Roman 10-point, 1.15-line spacing, and justified alignment. This structured approach improves manuscript quality, facilitates peer review, and ensures consistency with the publication standards of high-quality Informatics journals.

2. RESEARCH METHOD

The Research Method section describes the research methodology and systematic procedures undertaken to achieve the research objectives. It should provide sufficient detail to enable other researchers to understand, reproduce, validate, or extend the proposed study. The methodology must be presented in a logical sequence and supported by relevant references whenever established methods, algorithms, models, or frameworks are adopted.

In general, this section should include the following components: (1) the research type and approach (e.g., quantitative, qualitative, experimental, research and development, case study, or mixed methods); (2) the research object, dataset, or study scope; (3) data sources and data collection techniques; (4) tools, software, programming languages, frameworks, hardware, or experimental environment used; (5) the research procedures, workflow, system architecture, algorithms, or development stages; and (6) data analysis or evaluation techniques, including appropriate performance metrics, statistical analysis, validation methods, or comparative experiments.

Authors are encouraged to illustrate the research workflow using flowcharts, architecture diagrams, algorithms, or pseudocode where appropriate. Every methodological step should be clearly explained to ensure transparency and reproducibility. The recommended length of this section is 500–900 words, using Times New Roman 10-point, 1.15-line spacing, and justified alignment.

2.1. Research Design and Approach

Describe the research type and methodology employed, such as quantitative, qualitative, experimental, research and development (R&D), design science, case study, or mixed-methods research. Explain why the selected approach is appropriate for achieving the research objectives.

2.2. Research Object, Dataset, or Study Scope

Describe the object of the study, dataset, application domain, or research environment. Clearly define the scope and limitations of the study. When applicable, specify the characteristics of the dataset, including its source, size, features, and preprocessing procedures.

2.3. Data Collection

Explain how the research data were obtained, including observation, interviews, questionnaires, documentation, sensors, publicly available datasets, or secondary sources. If applicable, describe the population, sampling method, inclusion criteria, and ethical considerations.

2.4. Tools, Materials, and Experimental Environment

Describe the software, programming languages, libraries, frameworks, hardware specifications, databases, cloud platforms, or simulation environments used during the research. Sufficient technical information should be provided to support reproducibility.

2.5. Research Procedure

Describe the research workflow in chronological order. This subsection may include system architecture, workflow diagrams, flowcharts, algorithms, pseudocode, or development models such as SDLC, GDLC, Agile, Waterfall, Scrum, Prototype, DevOps, CRISP-DM, or other relevant methodologies.

All procedures should be explained clearly and systematically.

2.6. Data Analysis and Performance Evaluation

Explain the techniques used to analyze experimental results and evaluate system performance. Appropriate evaluation methods should be selected according to the research domain.

Examples include:

- Accuracy, Precision, Recall, and F1-score
- ROC-AUC
- Mean Absolute Error (MAE)
- Root Mean Square Error (RMSE)
- Mean Squared Error (MSE)
- Confusion Matrix
- Cross-validation
- Statistical significance tests (e.g., t-test, ANOVA)
- System response time
- Throughput
- Resource utilization
- User Acceptance Testing (UAT)
- System Usability Scale (SUS)

The selected evaluation metrics should be justified and aligned with the research objectives.

3. RESULT AND DISCUSSION

The Results and Discussion section presents the research findings and provides a critical interpretation of their significance. The results should directly address the research objectives and be presented in a clear, logical, and systematic manner. Authors are encouraged to organize this section according to the characteristics of their research while maintaining consistency with the methodology described in the previous section.

Research findings may be presented using tables, figures, graphs, screenshots, confusion matrices, performance charts, statistical summaries, or other appropriate visualizations. Every figure and table must be clearly numbered, captioned, and cited in the text before it appears. Visual elements should complement the explanation rather than replace it.

The presentation of results should emphasize factual observations supported by quantitative or qualitative evidence. Whenever possible, authors are encouraged to report measurable performance indicators, statistical values, or evaluation metrics relevant to the research domain. Repetition of identical information in both tables and figures should be avoided.

The discussion should critically explain the significance of the obtained results, their consistency or inconsistency with previous studies, the advantages and limitations of the proposed approach, and their scientific or practical implications. Authors are encouraged to demonstrate how the obtained findings support the novelty and contribution of the proposed research. Whenever applicable, the limitations of the proposed method should also be discussed to provide opportunities for future research.

The recommended length of this section is 700–1,200 words, using Times New Roman 10-point, 1.15-line spacing, and justified alignment.

3.1. Presentation of Research Results

Present the primary findings of the research clearly and objectively. Results should be organized according to the research objectives or experimental stages and supported by appropriate tables, figures, or other visual representations.

Depending on the research field, this subsection may include:

- Experimental results;
- Classification or prediction performance;

- System implementation results;
- Functional testing results;
- Comparative performance evaluation;
- Statistical summaries;
- User testing or usability evaluation;
- Screenshots of the developed system;
- Benchmark or simulation results.

All reported results should be accurate, complete, and directly derived from the conducted research.

3.2. Experimental Results

For studies involving algorithms, machine learning, artificial intelligence, optimization, computer vision, networking, cybersecurity, data science, or related fields, this subsection should describe the experimental outcomes.

Authors are encouraged to report appropriate evaluation metrics, such as:

- Accuracy
- Precision
- Recall
- F1-score
- ROC-AUC
- Mean Absolute Error (MAE)
- Root Mean Square Error (RMSE)
- Mean Squared Error (MSE)
- Processing time
- Computational complexity
- Memory usage
- Throughput
- Response time

Experimental settings should be consistent with the methodology described in the previous section.

3.3. Comparison of Results

Whenever applicable, compare the obtained results with:

- Baseline methods;
- Existing algorithms;
- Previous studies;
- Commercial or open-source systems;
- State-of-the-art approaches.

Comparative results should be presented objectively using tables or figures, highlighting similarities and differences without extensive discussion.

Figures, Tables, Algorithms, and Equations

Figures, tables, algorithms, and mathematical equations should be presented as close as possible to the first paragraph in which they are referenced. Every figure, table, algorithm, and equation must be cited and discussed within the main text.

1. Figures

- Figures should be centered and of high resolution (minimum **300 dpi**).
- Text contained within figures must remain clearly readable after publication.
- Figure captions shall be placed **below** the figure.
- Figures must be numbered consecutively using Arabic numerals (e.g., **Figure 1**, **Figure 2**).

- Multi-part figures should be labeled using lowercase letters, such as (a), (b), (c), and (d).
- Avoid screenshots with low resolution unless essential for explaining the proposed system.



Figure 1. The example of figures that can be seen clearly

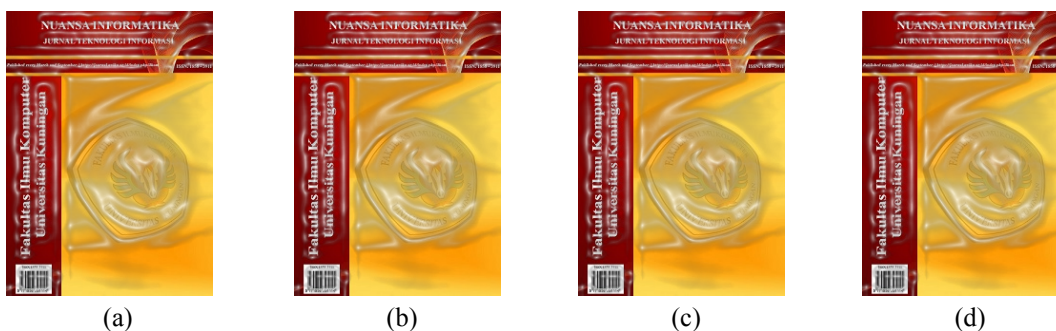


Figure 2. The example of figures that can be seen clearly, (a)..., (b)....

2. Tables

- Tables should be editable and must **not** be inserted as images.
- Table captions shall be placed **above** the table.
- Tables should be numbered consecutively using Arabic numerals (e.g., **Table 1**, **Table 2**).
- Every table must be referenced in the manuscript before it appears.

Table 1. Table Style

Table Head	Table Column Head		
	<i>Table column subhead</i>	<i>Subhead</i>	<i>Subhead</i>
copy	More table copy		

3. Algorithms and Pseudocode

Algorithms or pseudocode should be written using a clear and consistent format. Each algorithm must include an appropriate title and be numbered consecutively.

When applicable, authors are encouraged to specify:

- Input
- Output
- Processing steps
- Computational complexity

Algorithm 1 : Algorithm Name

Output : return ...

```

1   i := 0
2   x := [[]]
3   for i := 0 to i > 10 do
4       .....
```

n

4. Mathematical Equations

Mathematical equations must be created using the built-in equation editor of Microsoft Word or compatible equation editing software. Equations must **not** be inserted as images.

- Equations should be centered.
- Equation numbers should be placed in parentheses and aligned to the right.
- Equations should be numbered consecutively (e.g., **(1)**, **(2)**).
- All variables and symbols must be defined immediately after the equation or in a dedicated notation section when necessary.
- SI (International System of Units) should be used consistently throughout the manuscript.

$$(x + a)^n = \sum_{k=0}^n \binom{n}{k} x^k a^{n-k} \quad (1)$$

4. CONCLUSION

The conclusion section summarizes the key findings, reflects on the research objectives, and highlights the significance of the study. It should be written concisely, without introducing new data or analysis. A good conclusion in Informatics research restates the problem, outlines how the research addressed it, and proposes future directions or practical implementations.

Acknowledgment

The preferred spelling of the word “acknowledgment” in America is without an “e” after the “g.” Avoid the stilted expression “one of us (R. B. G.) thanks ...”. Instead, try “R. B. G. thanks...”. Put sponsor acknowledgments in the unnumbered footnote on the first page.

Declarations

Author contribution. The contribution or credit of the author must be stated in this section.

Funding statement. The funding agency should be written in full, followed by the grant number in square brackets and year.

Conflict of interest. The authors declare no conflict of interest.

Additional information. No additional information is available for this paper.

Data and Software Availability Statements

Data and Software availability statements provide a statement about where data and software supporting the results reported in a published article can be found, including hyperlinks to publicly archived datasets and software analyzed and generated during the study/experiments.

REFERENCES

The **References** section should contain relevant, credible, and up-to-date literature that directly supports the research. Authors are encouraged to cite primary sources, particularly articles published in reputable international journals, national accredited journals, and international conference proceedings. References should demonstrate a comprehensive understanding of the current state of research and reflect recent developments in the field.

All references must be formatted using the **IEEE citation style** and managed using reference management software such as **Mendeley**, **Zotero**, **EndNote**, or other compatible applications. Every

reference listed in this section must be cited in the manuscript, and every in-text citation must appear in the reference list.

The following requirements should be observed:

- A minimum of **25 references** is required.
- At least **80%** of the references should be obtained from reputable journals or international conference proceedings.
- At least **80%** of the references should have been published within the last **five years**, except for seminal or foundational works that remain highly relevant.
- Authors are encouraged to cite recent articles published in **Nuansa Informatika** whenever they are relevant to the research topic.
- References should primarily consist of **primary research articles** rather than textbooks, websites, or secondary sources.
- Every reference should include a **DOI (Digital Object Identifier)** whenever available.
- References generated manually should be carefully checked to ensure consistency with the IEEE citation style.
- Authors should avoid excessive self-citation and unnecessary citations that are not directly related to the research.
- The use of blogs, Wikipedia, personal websites, unpublished student theses, or non-peer-reviewed sources should be avoided unless they are essential, authoritative, and publicly accessible.
- Articles that have been accepted but not yet published should be identified as **"in press"**.
- Unpublished manuscripts should be identified as **"unpublished"**.
- Titles of articles should follow the capitalization rules defined by the IEEE citation style.
- Translated works should cite the English title first, followed by the original title in brackets when applicable.

REFERENCE FORMAT

The reference list should be arranged **numerically** according to the order of citation in the manuscript, following the IEEE referencing style.

Examples:

- [1] A. B. Author and C. D. Author, "Article title," *Journal Name*, vol. 15, no. 2, pp. 120–130, 2025, doi: xx.xxxx/xxxxx.
- [2] E. F. Author, *Book Title*, 3rd ed. New York, NY, USA: Publisher, 2022.
- [3] G. H. Author *et al.*, "Conference paper title," in *Proceedings of ...*, 2024, pp. 45–52, doi: xx.xxxx/xxxxx.