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Article Title (title case, max. 15 words, times new roman, 14pt, bold, and centered)

Author One*1, Author Two2, Author Three3, Author Four4 (10pt, bold, and centered, asterisk for corresponding author)

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ABSTRACT

The abstract must be written in English and placed in this section. It should provide a concise and comprehensive overview of the manuscript, including the background, research problem, objectives, methods, results, and conclusions. The abstract must be written in Times New Roman, 10 pt, using a single-column format with single line spacing (1.0). The maximum length of the abstract is 250 words. Citations, references, figures, and tables are not permitted in the abstract. The abstract should be written clearly, concisely, and objectively to reflect the main contribution and findings of the study.

Keyword: Times New Roman 10pt. Keywords should clearly represent the content of the manuscript and consist of a maximum of five words or phrases. Keywords must be written in lowercase letters, except for abbreviations or proper nouns, arranged in alphabetical order, and separated by semicolons (;). The keywords should be written in Times New Roman, 10 pt

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1. INTRODUCTION (uppercase, times new roman, 10pt, bold)

The Introduction section should provide a clear, logical, and concise explanation of the research context and significance. This section is intended to introduce the problem being studied, explain its importance, review relevant previous studies, identify research gaps, and clearly state the objectives and contributions of the study.

The Introduction must be written in Times New Roman, 10 pt, using a single-column format with single line spacing (1.0) and justified alignment. The section title must be written in uppercase letters and bold style. The content of the Introduction generally covers approximately 10–20% of the total manuscript length.

The Introduction should be written in a structured and coherent flow, beginning with a broad explanation of the research topic and progressively narrowing toward the specific problem addressed in the study.

The Introduction section must contain the following components:

1. **Research Background**
   Explain the context, significance, and motivation of the study. Authors should describe the practical problem, scientific issue, or technological challenge that motivates the research.
2. **Related Work / Previous Studies**
   Provide a concise review of relevant prior studies related to the research topic. The discussion should highlight previous approaches, methods, findings, strengths, and limitations. Avoid excessive theoretical explanations, textbook-style definitions, or unrelated discussions.
3. **Research Gap Analysis**
   Clearly identify unresolved problems, limitations, inconsistencies, or challenges found in previous studies. Authors should explain why existing approaches remain insufficient and why further research is necessary.
4. **State-of-the-Art**
   Present recent developments, current trends, or advanced methods relevant to the research topic. This section should position the study within the existing body of knowledge.

5. **Novelty and Contribution**
   Clearly explain the originality and scientific contribution of the proposed study. Authors should emphasize what differentiates the proposed framework, model, method, or approach from previous research.
6. **Research Objectives**
   Clearly state the objectives, scope, or research questions addressed in the study. The objectives should align with the identified research problem and gap.

Authors are encouraged to maintain a logical and coherent flow of discussion, ensuring smooth transitions between paragraphs and avoiding overly broad explanations. The Introduction should focus on the research problem and should not be dominated by lengthy theoretical definitions or excessive literature reviews.

Citations in the Introduction section must follow the IEEE citation style, written in sequential numbering format such as [1], [2]–[5], according to the order in which references appear in the manuscript.

To improve clarity and readability, authors are encouraged to conclude the Introduction with a brief paragraph summarizing the research objectives, novelty, and contribution of the study.

Recommended Structure of the Introduction
1. Paragraph 1–2: Background and problem context
2. Paragraph 3–4: Previous studies and related work
3. Paragraph 5: Research gap and limitations of prior studies
4. Paragraph 6: Novelty and contribution of the proposed study
5. Final Paragraph: Research objectives and paper organization (optional)

2. RESEARCH METHODS (uppercase, times new roman, 10pt, bold)

The Research Method section explains the procedures, techniques, models, algorithms, experimental design, datasets, and analytical approaches used to address the research problem. This section should provide sufficient detail to allow other researchers to understand, reproduce, or validate the study.

The Research Method must be written in Times New Roman, 10 pt, using a single-column format, single line spacing (1.0), and justified alignment. The section title must be written in uppercase letters and bold style.

The content of the Research Method generally covers approximately 20–30% of the total manuscript length and should focus on explaining how the research was conducted rather than presenting results.

Authors are encouraged to formulate the research problem in a clear, systematic, and mathematical manner whenever possible. Mathematical equations, formulas, system architectures, workflows, or algorithmic explanations may be included to strengthen methodological clarity.

The Research Method section should generally contain the following components, depending on the nature of the study:

1. **Research Design / Framework**
   Describe the overall research framework, workflow, or experimental design used in the study.
2. **Dataset / Data Collection**
   Explain the source of the dataset, sampling methods, data acquisition process, inclusion criteria, and preprocessing techniques if applicable.
3. **Proposed Method / Algorithm**
   Clearly explain the proposed method, algorithm, framework, or model used in the study. If an algorithm or computational approach is used, authors should explain the workflow, equations, parameters, and implementation details. Comparisons with state-of-the-art methods may also be included.
4. **System Architecture / Model Design (if applicable)**
   Describe the system architecture, model structure, feature extraction process, computational framework, or network architecture used.
5. **Evaluation Metrics**
   Explain the performance evaluation metrics used in the study, such as accuracy, precision, recall, F1-score, AUC, IoU, Dice Coefficient, or other relevant measures.
6. **Experimental Setup (if applicable)**
   Describe the software, hardware, parameter settings, training configurations, validation techniques, and implementation environment used in the experiment.

The Research Method section should emphasize the reproducibility and clarity of the proposed approach. Avoid unnecessary theoretical explanations or literature discussions that are more appropriate for the Introduction section.

Heading and Numbering Format

Subsections in the Research Method section should follow a clear hierarchical numbering system:

Primary Subsection (Level 2)
Use numbered headings, written in bold, for example:

2.1. Dataset
2.2. Proposed Method
2.3. Experimental Setup

Secondary Subsection (Level 3)
If additional explanation is required within a subsection, authors may use:

a. Data Preprocessing
b. Feature Extraction
or
1. Training Process
2. Validation Process

depending on the structure and readability of the discussion.

Subsection titles should be written in bold style using Times New Roman, 10 pt, while maintaining consistent numbering throughout the manuscript.

Recommended Structure of the Research Method

2.1. Research Framework / Dataset
2.2. Proposed Method / Algorithm
2.3. System Architecture or Experimental Design
2.4. Evaluation Metrics
2.5. Experimental Setup

3. RESULTS AND DISCUSSION (uppercase, times new roman, 10pt, bold)

The Results and Discussion section presents the findings of the research, experimental results, testing outcomes, and their interpretation. This section should not only describe the obtained results but also provide a comprehensive discussion, analysis, comparison, and explanation of their significance.

The Results and Discussion must be written in Times New Roman, 10 pt, using a single-column format, single line spacing (1.0), and justified alignment. The section title must be written in uppercase letters and bold style.

The Results and Discussion section is generally the largest portion of the manuscript, covering approximately 40–60% of the total manuscript length. Authors are encouraged to focus on result interpretation and critical discussion, rather than merely presenting numerical outputs or experimental values.

The Results and Discussion section should generally contain the following components:

1. **Experimental Results**
   Present the results of experiments, simulations, system implementation, observations, or testing procedures. Results may be presented in the form of tables, figures, graphs, confusion matrices, performance metrics, or other relevant visualizations.
2. **Result Analysis and Interpretation**
   Explain the meaning of the obtained results. Authors should interpret findings scientifically and explain their implications in relation to the research objectives.
3. **Comparison with Previous Studies or Baseline Methods (if applicable)**
   Compare the obtained results with previous studies, baseline models, or state-of-the-art approaches to demonstrate performance improvements or methodological advantages.
4. **Discussion of Strengths and Limitations**

Discuss the strengths, weaknesses, limitations, challenges, or constraints of the proposed method or system.

5. **Practical or Scientific Implications (if applicable)**
   Explain the contribution, usefulness, or potential application of the research findings in academic, industrial, or practical contexts.

Authors should avoid simply restating the results without interpretation. Each finding should be critically analyzed and linked to the research objectives and problem statement presented in the Introduction section.

Heading and Numbering Format

Subsections in the Results and Discussion section should follow a hierarchical numbering format.

Primary Subsection (Level 2)
Subsection titles should be written in bold, using Times New Roman, 10 pt, with capitalization at the beginning of each major word, for example:

3.1. Performance Evaluation
3.2. Experimental Results
3.3. Comparative Analysis

Subsections are allowed in all sections of the manuscript except the Conclusion section.

In this section, the results of the research and tests that have been carried out can be described. In addition, a discussion of the research and testing that has been done is also presented. Results and discussion should be the most content chapter in a paper. The content of Results and Discussion can reach 40-60% of the entire paper.

Secondary Subsection (Level 3)
If additional explanation is required within a subsection, authors may use:

a. Classification Results
b. Model Comparison
or
1. Training Phase
2. Testing Phase

depending on the clarity and organization of the discussion.

Equation (1) is an example of writing an equation to find the baud rate frequency of mode two in 8051 microcontroller serial communication.
In equation (1), fbaud is the baud rate frequency. SMOD is the control bit in PCON (Power Mode Control Special Function Register), while fOSC is the oscillator/crystal frequency used in the microcontroller circuit.

$$f_{baud} = \frac{2^{SMOD}}{64} x f_{osc} \qquad (1)$$

TABLES AND FIGURES

All tables and figures should be clear/not blurry. The font size of tables and figures should be readable by normal eyes with ease. The position of tables or figures on a page should be located at the top or bottom of the page in each column. Examples can be seen in table 1, table 2 or figure 1. Putting tables or figures in the middle of a page or paragraph should be avoided. Tables and figures should be placed in the center of each column (center alignment). Each table and figure must be referred to in a sentence. Each table and figure must also be given an explanation, at least 1 paragraph, in order to equalize the interpretation between the author and the reader of the paper.

Table 1. Example of Table with 1 Column (10pt, centered)

Var 1	Var 2	Var 3	Var 4	Var 5	Y
A	Xx	11	66	0	Ya
B	Yy	22	77	1	Tidak
C	Zz	33	88	0	Ya

D	Xy	44	99	1	Ya
E	Yz	55	10	0	Tidak

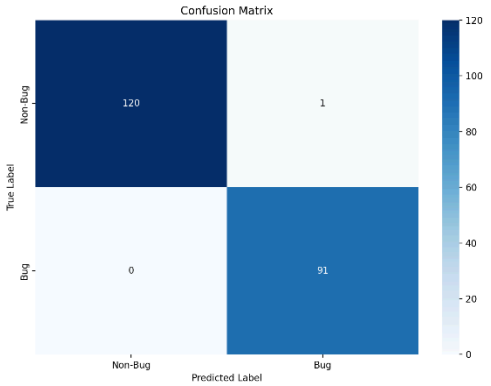

Figure 1. Example of Image

4. CONCLUSION (uppercase, times new roman, 10pt, bold)

The Conclusion section presents the main findings, contributions, and implications of the study. This section serves as the core summary of the entire manuscript, highlighting how the research objectives have been achieved and how the proposed method, framework, or approach addresses the identified problem.

The Conclusion must be written in Times New Roman, 10 pt, using a single-column format, single line spacing (1.0), and justified alignment. The section title must be written in uppercase letters and bold style.

The Conclusion must be written in paragraph form only and must not be presented in bullet points, numbering, or list format. Authors should provide a concise yet meaningful synthesis of the research findings rather than merely repeating statements from previous sections.

The Conclusion section should generally contain the following elements:

1. **Summary of Main Findings**
   Briefly summarize the most important research findings and outcomes.
2. **Achievement of Research Objectives**
   Explain how the objectives of the study have been successfully addressed or achieved.
3. **Scientific or Practical Contribution**
   Highlight the significance, novelty, usefulness, or contribution of the study to the relevant field.
4. **Limitations and Future Work (optional but recommended)**
   Authors may briefly mention research limitations and provide suggestions for future improvements or further studies.

Authors should ensure that the Conclusion is concise, clear, and directly related to the results and discussion presented in the manuscript. The Conclusion must not repeat sentences from the abstract, restate the Introduction extensively, or introduce new data, figures, tables, citations, or discussions that were not previously explained in the manuscript.

Subsections **(e.g., 4.1, 4.2)** are not allowed in the Conclusion section. The content should be written as a coherent closing discussion in one or more connected paragraphs.

Recommended Writing Structure of the Conclusion

1. **First paragraph: Summary of the main findings and achieved results.**
2. **Second paragraph: Research contribution and implications.**
3. **Final paragraph (optional): Limitations and future research directions.**

ACKNOWLEDGMENTS (Optional)

Acknowledgments can be given after the conclusion and before the bibliography. **Authors can write this section or delete it**. Acknowledgments are reserved for funders and research objects only. Writing acknowledgments outside of these 2 things is not allowed.

DECLARATIONS (uppercase, times new roman, 10pt, bold)
Author Contributions (Please choose one option below)
[option 1]
Author 1 [Full Name]: Conceptualization, Methodology, Software, Writing–original draft.
Author 2 [Full Name]: Data curation, Software. Ade Fajar Kurniawan: Data curation, Visualization.
Author 3 [Full Name]: Validation, Visualization.
Author 4 [Full Name]: Validation, Visualization.
Author 5 [Full Name]: Supervision, Methodology, Writing–review & editing.
Author 6 [Full Name]: Methodology, Writing–review & editing.

[option 2]
Author 1 [Initials]: Conceptualization, Methodology, Software, Writing–original draft.
Author 2 [Initials]: Data curation, Software. Ade Fajar Kurniawan: Data curation, Visualization.
Author 3 [Initials]: Validation, Visualization.
Author 4 [Initials]: Validation, Visualization.
Author 5 [Initials]: Supervision, Methodology, Writing–review & editing.
Author 6 [Initials]: Methodology, Writing–review & editing.

[option 2]
The author confirms sole responsibility for the study conception and design, data collection, analysis and interpretation of results, and manuscript preparation.

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[Option 2] This work was supported by [Name of Funding Agency/University] under Grant Number [Insert Contract/Grant Number].

Conflicts of Interest (Please choose one option below)
[Option 1] The authors declare that they have no competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

[Option 2] The authors declare no conflict of interest regarding the publication of this paper.

Data Availability (Please choose one option below)
[Option 1] The datasets and source code generated during the current study are available in the [Name of Repository, e.g., GitHub] repository at [Insert Link URL or DOI].

[Option 2] The data that support the findings of this study are available from the corresponding author upon reasonable request.

[Option 3] All data generated or analyzed during this study are included in this published article.

AI Use Statement (Please choose one option below)
[Option 1] During the preparation of this work, the authors used [Insert AI Tool Name, e.g., ChatGPT / Gemini] in order to improve the language and readability of the manuscript. After using this tool, the authors reviewed and edited the content as needed and take full responsibility for the final content of the published article.

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[Option 1] No additional information is available for this paper.
[Option 2] Supplementary material related to this article can be found in the online version.

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REFERENCES

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