**JURNAL OPTIMASI SISTEM INDUSTRI (JOSI)**

**THE MANUSCRIPTS TEMPLATE (FORMAT AND STRUCTURE)**

**(Updated: January 2025)**

Before using the JOSI template on page 2, authors should **carefully read** the instruction below before preparing the manuscript. **This instruction must be strictly followed**, as non-compliance may lead to **delays in the editorial process** or the **immediate rejection** of the manuscript upon submission.

**GENERAL INSTRUCTION:**

1. The Manuscript language is **English**. Make sure to **proofread the manuscript** writing before submission.
2. The Indonesian language **is only acceptable at the time of submission**. However, this may cause a delay in the manuscript editorial process since the majority of the journal’s reviewers are non-Indonesian national.
3. The manuscript must be submitted as a **Microsoft Word file**. Other formats (LaTeX, PDF, etc.) are **not acceptable** and will **result in immediate rejection**.
4. The **main body** of the manuscript should be strictly divided into **4 (four) mandatory sections**, i.e., **INTRODUCTION, METHODS, RESULTS AND DISCUSSION, and CONCLUSION**;
5. The length of manuscript can be any number of pages, but **the main body**, as indicated under point d) above, should be **at least 5000 words length**, **excluding** words in abstract and keywords, tables, references, acknowledgement, Appendix, etc.;
6. The manuscript should refer to **a minimum of 25 references**; using the **most recent primary references** i.e., the publication from **internationally reputable journals** and/or **international conference proceedings** published **in the last 10 years**; For Research on **Literature Review Category**, **a minimum of 50 references is mandatory.**
7. The equations, tables and Figures should be placed **at the nearest possible place** to the text when it is first mentioned in the manuscript;
8. Equations should be written using **equation editor**, NOT as plain text **or** in image format;
9. Tables should be created using **tabular /table design** (see the table format in page 4-5); NOT as picture/image format;
10. Figures should be **minimized in size**, as long as **the information they present is clear and readable**;
11. Figures created in MS Word, MS PowerPoint and/or MS Excel **should be supplied in their native formats**;
* **Do not remove /delete any information of** **this** **page;**
* Write the manuscriptaccording to the exact format/structure **below**;
* **All information in bold letter must be written as it is**.

*Your manuscript starts below …..*

**Article type/category:** [*See “Author Guidelines” on JOSI website to determine a correct article category*]

…

**Title:**

…

**Authors:**

Author 1, Author 2, ……., Author n

**Affiliation:**

1. Affiliation of Author 1
2. Affiliation of Author 2
3. …….

**Corresponding Author:**

Name : ………… Email : ………… Phone : …………

**ABSTRACT**

Guidelines: (*delete the guidelines below when submitting the manuscript*)

* Abstract is a single paragraph of **250 – 300 words**;
* Write the abstract **as a cohesive tale**, beginning with broad facts of **research background** (no more than two lines) followed by the **research problem**, and then adding more about **the purpose**, **methods applied**, **results**, and **research implications**;
* **Highlight and emphasize** **more on** the main conclusion and the implication of the proposed research, rather than detailed numerical results.

In general, the abstract provides a pertinent overview of the work consisting of background (20%); purpose (15%); method (30%); and result/findings (25%) and implication (10%).

**Keywords:**

Guidelines:

Write **4-5 keywords** that are most describe the research, each of which **must be explicitly written** in the abstract.

**INTRODUCTION [12 pt]** (*delete the guidelines below when submitting the manuscript*)

Guidelines:

***This Section is MANDATORY – not less than 1200 words length***

It should include the following **key elements**:

* *Research Context*: A broader domain or field under which the proposed research topic is situated, including its significance.
* *Key Developments*: A significant progress, breakthroughs, or the latest technological advancements in the topic relevant to the proposed research.
* *Prior Works and Approaches*: A synthesis (review and discussion) of the methods/approached, frameworks, models and/or findings of prior research (refer to the most recent ones) that have informed or influenced the proposed research.
* *Gaps/Problem*: The limitations, inconsistencies, or lack of previous research that the proposed research intends to address.
* *Novelty*: A description of how the proposed research is novel and interesting, and its unique contributions.
* *Objectives*: Outline the purpose(s) of the proposed research.
* *Significance of the Research*: The argument why the proposed research matters; how it will contribute to  advancing current understanding, address existing knowledge gaps, and/or improve performance particular system.

Note:

* Refer to at least **25 primary references**, prioritizing recent publications from internationally reputable journals and conference proceedings, published mainly from **the last 5 years**.
* For Research of **Literature Review Category**, refer to **at least** **50 primary references**.
* **Avoid** extensive details of the basic theoretical foundations of a particular knowledge.
* For research focused on a specific industrial case problem, **avoid detailing the problem description of the case problem** in the Introduction section. Instead, provide this explanation in the Method section or in the Results and Discussion section, whichever is more appropriate.

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| ***This is for Research Category of LITERATURE REVIEW..!!***The INTRODUCTION section should include the following **key elements**:* *Research Context*: A domain or field under which the proposed research topic is situated.
* *Key Developments*: The latest significant progress, breakthroughs, or technological advancements in the review topic.
* *Gaps/Problem:* The limitations, inconsistencies, or gaps in previous studies that the research intends to address.
* *Research Questions*: The context of the problem, followed by the specific questions or issue that the Literature Review aims to answer.
* *Objectives and Scope*: Statements of Review objectives, with the scope of the Literature Review is well-defined, avoiding ambiguity or excessive breadth.
* *Significance*: Description about why the proposed Literature Review matters, what unique contribution of the proposed Literature Review to advancing current understanding, and/or address existing knowledge gaps.
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**In-text-citations:**

Use IEEE citation style **consistently** throughout the manuscript.

For Example:

At the beginning of the sentence:

“Smith [4] and Brown and Jones [5] explained ….“

“Several recent studies [3], [4], [15], [22] suggested that ….”

Use “et al.” when three or more names are given for a reference cited in the text.

“Wood et al. [7] investigated ….“

At the end of the sentence:

“ …. increase the efficiency of the supply chain system [13], [14], [17]-[20].”

“ …., as in [8].”

**METHODS [12 pt]** (*delete the guidelines below when submitting the manuscript*)

Guidelines:

* Provide **structured** and **sufficient** details of methods/approaches used in the proposed study.
	+ For novel methods and approaches, describe it in detail.
	+ For well-established methods and approaches, provide a clear and concise description of how the methods used is tailored to suit the specific needs and context of the proposed research.
	+ If quoting directly from a previously published methods, use quotation marks and cite the source. If any modifications to existing methods, describe it in detail.
* For research involving participants/respondents, indicate the participants observed, including demographic selection requirements, number of respondents, the rationale of respondent selection, etc.
* For research on the design of the experiment, describe it in detail, including the experiment procedures, surveys, interviews, observation characteristics, etc.

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| ***This is for Research Category of LITERATURE REVIEW...!!***The METHODS section should include the following **key elements**:*Protocol and Framework:** A recognized framework (e.g., Engineering Village, IEEE Xplore Digital Library, Open Science Framework, etc.) is referenced and adhered to.
* The protocol, either as a pre-registered plan (e.g., Open Science Framework) or detailed in the manuscript.
* Inclusion and exclusion criteria.

*Search Strategy:** Databases and sources (e.g., Scopus, grey literature, etc.).
* Search terms and/or Boolean operators.
* The search strategy.

*Study Selection Process:** The screening process, including tools or software used (e.g., Covidence, EndNote).
* A flow diagram (e.g., PRISMA) or equivalent to visualize the selection process.
* Measures to minimize bias, such as independent reviewers and conflict resolution procedures

*Data Extraction and Synthesis:** A clear, structured data extraction form or table.
* Key variables extracted (e.g., study design, population, outcomes)
* The synthesis method (e.g., meta-analysis, thematic analysis)
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**Additional Headings:**

When necessary, additional headings can be created using the format below:

**Second-level Heading [**12 pt**, bold]**

….

***Third-level Heading*** [11 pt, **bold** and *italic*]

….

*Fourth-level Heading* [11 pt, *italic*]

….

For additional lower-level headings, use an **itemized format** with **bullets and/or numbering**.

* …..
* …..
* …..
* …..

**Tables:**

* The Table uses **no vertical lines**.
* All text in the table is **top-left alignment.**

Use the following table format (**DO NOT change** spaces, cell margin and other setting, **except** the number of column and column width)

Table 1. First Example (**Basic format, using first-level column head**)

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Title 1** | **Column Title 2** | **……** | **Column Title *n*** |
| The description; in single line | ….. | ….. | ….. |
| The description - For long single description, **design more-left indentation** starting for line 2. | ……….. ……… …….. ……… ……….. ……. …….. | ….. | ….. |
| ….. | ….. | ….. | ….. |
| ….. | ….. | ….. | ….. |

Table 2. Second Example (**Using second-level column head**)

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Title 1** | **Column Title *2*** | **……** | **Column Title *n*** |
| **Sub-title 1** | **Sub-title 2** | **Sub-title *n*** |
| ….. | ….. | ….. | ….. | ….. | ….. |
| ….. | ….. | ….. | ….. | ….. | ….. |
| ….. | ….. | ….. | ….. | ….. | ….. |

Table 3. Third Example (**with third-level column head**)

|  |  |  |
| --- | --- | --- |
| **Column Title 1** | **Column Title 2** | **Column Title 3** |
| **Sub-title 1** | **….** | **Sub-title *n*** | **Sub-title …** | **…..** | **Sub-title** |
| **2nd Sub-title 1** | **2nd Sub-title …** |
| ….. | ….. | ….. | ….. | ….. | ….. | ….. | ….. |
| ….. | ….. | ….. | ….. | ….. | ….. | ….. | ….. |

**Figure:**

The figure should be kept **as small as possible** while ensuring that **all required information is properly presented**, with **clear-resolution** and **readability**. The figure, along with its caption, should be **center-aligned**.



Figure 2. Example of Figure

**Equation:**

The **equation expression** should beleft-alignment with **equation number is of** right-alignment.

For **short** (single line) equation:

$A=πr^{2}$ (1)

For **long equation**, design more-left indentation starting for line 2:

$A=πr^{2}+πr^{2}+πr^{2}+πr^{2}+πr^{2}+πr^{2}+πr^{2}+πr^{2}+πr^{2}+πr^{2}+πr^{2}+πr^{2}+πr^{2}πr^{2}$ (2)

$+ πr^{2}+πr^{2}+πr^{2}$

**RESULT AND DISCUSSION [12 pt]** (*delete the guidelines below when submitting the manuscript*)

Guidelines:

* This section is a mixed results-discussion; DO NOT present the Result and Discussion in different sub-sections.
* Emphasize more on presenting and **discussing the main result**.
* **Adhere** to the following guidelines carefully:
	+ DO NOT present an excessive amount of raw (input) data. Carefully select which raw data should be presented. If either raw (input) data or those detailed results are to be presented, put it in the Appendix section. A maximum of four-page appendix is allowed.
	+ DO NOT present detailed step-by-step computation **results** in multiple tables or figures. Instead, summarize these results in a single concise and meaningful table or figure, and draw conclusions from it.
* The discussion should **focus on** **interpreting the main results**, NOT only repeat mentioning those numerical results already shown in tables and/or figures.
* For research involving hypothesis testing, explain how the results relate to the hypothesis and provide a succinct discussion of the implications of the findings, especially in relation to previous studies.
* Include the name and version of any software used and clarify whether the computer code is available.

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| ***This is for Research Category of LITERATURE REVIEW...!!***The RESULTS AND DICUSSION section should include the following **key elements**:* Identified key themes, patterns, and gaps in the literature; Findings are categorized or synthesized logically.
* Evaluation on the quality and limitations of the included studies, including potential biases (e.g., publication bias, selection bias)
* The discussion on the limitations of the review itself and strategies to address them.
* The discussion that links results to the research question and identified implications for theory, practice, or policy.
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**CONCLUSION [12 pt]** (*delete the guidelines below when submitting the manuscript*)

Guidelines:

* The conclusions should clearly answer the research objectives**.**
* Highlight the main findings, NOT the detailed numerical results; Elaborate the impact of the research implications.
* Suggest future studies, especially if the findings is preliminary.

**ACKNOWLEDGMENTS**

Guidelines: (*delete the guidelines below when submitting the manuscript*)

Those who contribute but do not meet all criteria for authorship should not be listed as authors (see the explanation in Authors Guidelines in JOSI website), but should be acknowledged in this section. Only the names of the persons (not their roles) should be written.

**FUNDING**

Guidelines: (*delete the guidelines below when submitting the manuscript*)

All manuscript should include a statement of funding in the form of sentences under a separate heading entitled “Funding” right before References section. The funding agency should be written out in full, followed by the grant name, and grant number in square brackets, as in the following example:

“The author(s) disclosed receipt of the following financial support for the research, authorship, and/or publication of this article: This work was supported by the [Name of Organization/Agency], [Name/title of Grant], (Grant number: XXX).”

In case where no specific funding has been provided for the research, the funding statement is written as follows:

“The author(s) received no financial support for the research, authorship, and/or publication of this article.”

**References** [*Please see “Author Guidelines” on JOSI website on how to style the reference information*]

Guidelines: (*delete the guidelines below when submitting the manuscript*)

* Author(s) should **strictly follow** the **IEEE reference style consistently** throughout the manuscript. The style should be carefully checked for completeness, and accuracy;
* **Include DOI** (whichever apply);
* The total number of references should be **at least 25 references (50 references for Literature Review Research Category)**;
* The use of the most recent primary references **should be at least 60%** of the total number of references;
* The use of [Mendeley as a tool in referencing is preferable and encouraged](https://josi.ft.unand.ac.id/index.php/josi/refman).

**APPENDIX** [*if any*]

**A.1 Caption 1**

……………………….

**A.2 Caption 2**

……………………….

**A.2 Caption *n***

……………………….

**AUTHOR(S) BIOGRAPHY**

Guidelines: (*delete the guidelines below when submitting the manuscript*)

The biographical statement should include the author(s) full name. In addition, it is also appropriate to discuss a personal history, academic program and/or field placement, and research interests**.** The biographical statement may **not exceed 75 words** for each named author.