

# Title: Paper Template for Writing Journal ELKHA (Times News Roman, 21pt)

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**Keywords:** Automation, control, power systems, renewable energy. (some examples can be seen in IEEE taxonomy)

## I. INTRODUCTION

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The paper title should be written in uppercase and lowercase letters. If it is possible, avoid unfamiliar symbol/notation and/or long formula in the title. Title should be two rows with maximum 24 words. Only first and surname /family name are written completely. For the middle name(s), first letter should be written without full stop.

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have at least two sentences.

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The structure of the paper after Abstract and before References should contain main four parts based on IMRAD scientific writing structure: Introduction, Research Methodology, Results and Discussion, and Conclusions. These four sections will be the main intention in review process to make sure your paper will be interested to the ELKHA’s readers. The style of the writing in MS Word for contents these four sections using “Text” or (Font: Times News Roman, 10 Pt, First Line 0.36 cm, line spacing single) in this template. Use this template by modifying it directly is our recommendation to avoid the problem in editing in the future.

The Introduction/Pendahuluan should be effective, clear, and well organized. It must introduce and put perspective about the state-of-the-art of the topic discussed in the paper, the problem statement, and the objective. It should present why was the study undertaken, what was the research question/problem statement, and what was the hypothesis and purpose/objective of the research. Example of state-of-the-art is as the following. Recently, many researches especially in control engineering, give more attention for system that have non-linear and inexact mathematics model [1]. Conventional controller such as PID controller also has an important role to play because of owned advantages i.e. simple structure, more accurate at system operation region [2]-[4]. However, it is not easy to get optimal value of this controller parameter (proportional gain, integral time and derivative time). Therefore many researches have been developed to calibrate PID controller parameter [2,4]. State-of-the art/literature study/review of the research should be written in the first section. In the above example, citation must be in order according to the appearance. Single citation should be written with one number like [5]. Two or more citations with continue order is represented as [6]-[7] or [8]-[10], while the ones with discontinue order are represented in [6], [8], [10].

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## II. METHODOLOGY

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### A. Methodology Contents (Style: Heading 2)

This section should describe the research design or the methodology related to the result and discussion that will be explained in the next section. The methodology should give explanation how the research activities /experiments have been done and make reader understand how to reproduce the experiments and get the same outcome, so there is a higher possibility that other authors will cite your paper as their reference. The methodology should also show when, where, how was the study done, what materials were used or who was included in the study. The description of a new methodology should be complete and accurate. Authors should make sure to include proper references that published a method used in this paper. Authors also need to make sure that data and/or sample size large enough and selected properly according to the accepted practice.

### B. Figure Style (Style: Heading 2)

Figure 1 shows how to present a figure. The title should be located under the figure. The Figure must be easy to read and have a good resolution/quality. It should be considered that most reader may read the paper in black/white although the online version is presented with the original colors set in the final manuscript.

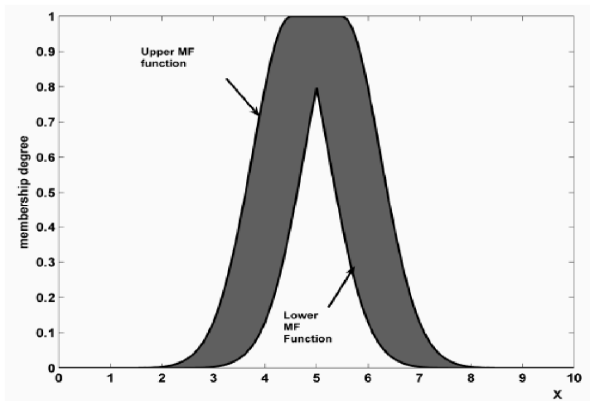


Figure 1. Interval type-2 membership function

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Citation of a figure in a sentence can be written as Figure 1 or in bracket (For example: See Figure 1). For more figures, it can be written as for example Figure 1 and 2. The figure should be put after the paragraph contains the sentence that explains it.

## III. RESULTS AND DISCUSSION

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This section presents the results and the explanation. Any result has to improve the understanding of the

readers on how superiority of the proposed approach/ method with a measurable indicators. If a standard is considered, it should be explained in this section regarding the results. This section should present what might the answer implied regarding the research question/problem statement, and why does it matter, how does it fit in with what other researchers have found.

Furthermore, Table 1 shows how to present a Table. The title should be located on the top. The Table must be easy to read. The authors should make sure that Figures and Tables are following the ELKHA's format. The Figures should easily read, therefore it is better to avoid transparent colors. For Tables, Authors should make sure that a table should appear in one page.

Table 1. Performance of Hybrid Fuzzy-PI Controller

	Ke	Kde	K	MF (e,de)	IAE
Data 1	-	-	-	-	1.117
Data 2	1.3	0.6	80	7,7	0.936
Data 3	1.3	0.6	80	3,3	1.003

The equation is described as in Equation (1). For instance, the intersection of two fuzzy sets A and B is specified in general by a function  $T:[0,1] \times [0,1] \rightarrow [0,1]$ , which aggregates two membership grades as follows:

$$\mu_{A \cap B}(x) = T(\mu_A(x), \mu_B(x)) = \mu_A(x) * \mu_B(x)$$

..... ☞ ☐ ☞

## IV. CONCLUSION

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This section contains the conclusion of the presented results regarding the topic or problem that have been explained previously. The conclusions should show its importance and validity based on the previous discussion. Authors are highly recommended to avoid unjustified and general claims. The conclusions and Abstract are not similar, where Abstract is the short summary of the whole paper, while conclusions present the summary on discussions section. The Conclusions should concise and easy to understand so the reader can understand the contribution of this paper. The paper should be written at least in 6 pages with **maximum 8 pages**. The paper, which is less than 6 pages or more than 8 pages, may be returned immediately for initial revision.

## ACKNOWLEDGEMENT

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