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# Author Guideline for International Journal of Applied Artificial Intelligence And Robotics (Left, Bold, 22 Pt)

First Author Name<sup>1</sup>, Second Author Name<sup>2\*</sup>, Third Author Name<sup>3</sup>, Fourth Author Name<sup>4</sup> (11 pt)

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## Abstract (14 pt)

An abstract is often presented separate from the article, so it must be able to stand alone. A well-prepared abstract enables the reader to identify the basic content of a document quickly and accurately, to determine its relevance to their interests, and thus to decide whether to read the document in its entirety. The abstract should be informative and completely self-explanatory, provide a clear statement of the problem, the proposed approach or solution, and point out major findings and conclusions. The Abstract should be 100 to 200 words in length. References should be avoided, but if essential, then cite the author(s) and year(s). Standard nomenclature should be used, and non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself. No literature should be cited. The keyword list provides the opportunity to add 5 to 7 keywords, used by the indexing and abstracting services, in addition to those already present in the title (10 pt).

**Keywords:** first, second, three, four, five

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## 1. Introduction (14 pt)

The main text format consists of a flat left-right columns on A4 paper (quarto). The margin text from the left, right, bottom and top are 2.5 cm, The manuscript is written in Microsoft Word, single space, Tw Cent MT with 10 pt, and maximum 12 pages for original research article, or maximum 16 pages for review/survey paper, which can be downloaded at the website: <https://e-jurnal.pnl.ac.id/TRIK>.

The title of an article should consist of the fewest possible words that accurately describe the content of the paper. The title should be succinct and informative and no more than about 12 words in length. Do not use acronyms or abbreviations in your title and do not mention the method you used, unless your paper reports on the development of a new method. Titles are often used in information-retrieval systems. Avoid writing long formulas with subscripts in the title. Omit all waste words such as "A study of ...", "Investigations of ...", "Implementation of ...", "Observations on ...", "Effect of.....", "Analysis of ...", "Design of...", etc.

A concise and factual abstract is required. The abstract should state briefly the purpose of the research, the principal results and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, References should be avoided, but if essential, then cite the author(s) and year(s). Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself. Immediately after the abstract, provide a maximum of 7 keywords, using American spelling and avoiding general and plural terms and multiple concepts (avoid, for example, 'and', 'of'). Be sparing with abbreviations: only abbreviations firmly established in the field may be eligible. These keywords will be used for indexing purposes.

Indexing and abstracting services depend on the accuracy of the title, extracting from it keywords useful in cross-referencing and computer searching. An improperly titled paper may never reach the audience for which it was intended, so be specific.

The Introduction section should provide: i) a clear background, ii) a clear statement of the problem, iii) the relevant literature on the subject, iv) the proposed approach or solution, and v) the new value of research which is innovation (within 3-6 paragraphs). It should be understandable to colleagues from a broad range of scientific disciplines. Organization and citation of the bibliography are made in Institute of Electrical and Electronics Engineers (IEEE) style in sign [1], [2] and so on. The terms in foreign languages are written italic (italic). The text should be divided into sections, each with a separate heading and numbered consecutively [3]. The section or subsection headings should be typed on a separate line, e.g., 1. INTRODUCTION. A full article usually follows a standard structure: 1. INTRODUCTION, 2. THE COMPREHENSIVE THEORETICAL BASIS AND/OR THE PROPOSED METHOD/ALGORITHM (optional), 3. METHOD, 4. RESULTS AND DISCUSSION, and 5. CONCLUSION. The structure is well-known as IMRaD style.

Literature review that has been done author used in the section "INTRODUCTION" to explain the difference of the manuscript with other papers, that it is innovative, it is used in the section "METHOD" to describe the step of research and used in the section "RESULTS AND DISCUSSION" to support the analysis of the results [2]. If the manuscript was written really have high originality, which proposed a new method or algorithm, the additional section after the "INTRODUCTION" section and before the "METHOD" section can be added to explain briefly the theory and/or the proposed method/algorithm [4].

## 2. Methods (14 pt)

Explaining the research chronologically, including the research design, research procedures (in the form of algorithms, Pseudocode, or other), how to test, and data acquisition [5] – [7]. The description of the course of research should be supported references, so the explanation can be accepted scientifically [2], [4]. Figures 1-2 and Table 1 are presented center, as shown below and cited in the manuscript [5], [8] – [13]. The effects of electrical discharges to acidity of HVNE and NELV has been illustrated in Figure 2(a) and the effects of breakdown voltage of NE and NELV has been illustrated in Figure 2(b).

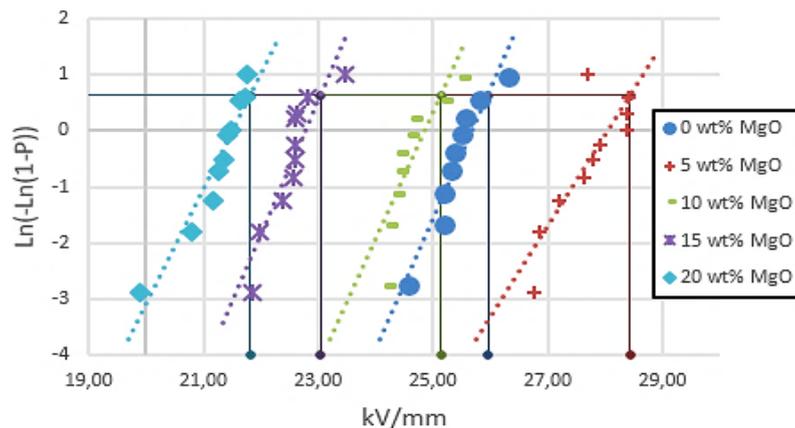


Figure 1. Example of figure. (9 pt)

Example of table is shown in the following.

Variable (9pt)	Speed (rpm)	Power (kW)	Power (kW)	Power (kW)
(9 pt) a	10	8.6	8.6	8.6
b	15	12.4	12.4	12.4
c	20	15.3	15.3	15.3
d	10	8.6	8.6	8.6
e	15	12.4	12.4	12.4
f	20	15.3	15.3	15.3

Example of combining multiple figure

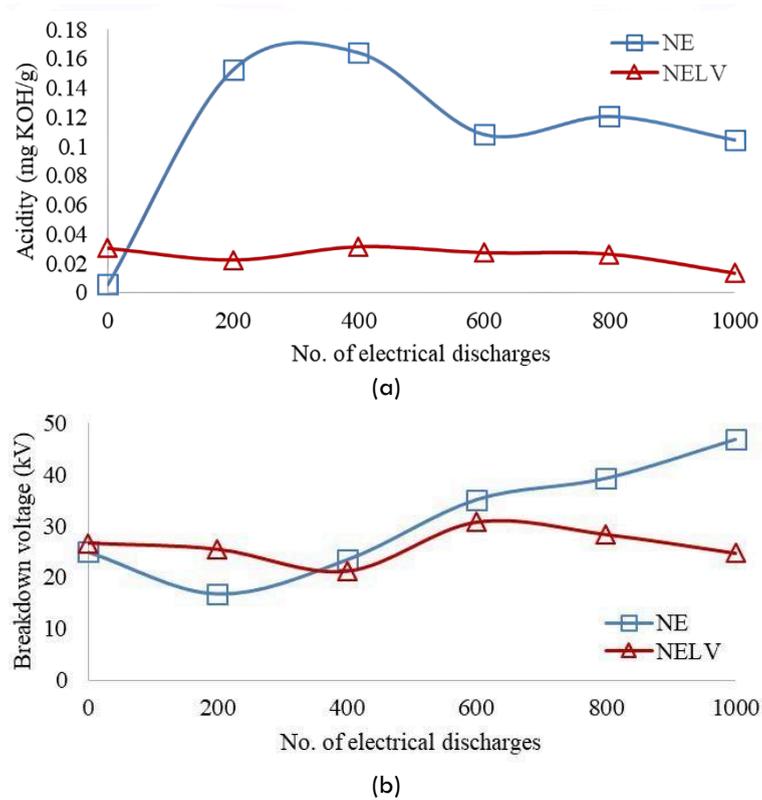


Figure 2. Example Effects of electrical discharges to (a) acidity of HVNE and NELV and (b) breakdown voltage of NE and NELV samples (9 pt)

### 3. Result and Discussions (14 pt)

In this section, it is explained the results of research and at the same time is given the comprehensive discussion. Results can be presented in figures, graphs, tables and others that make the reader understand easily [14], [15]. The discussion can be made in several sub-sections.

#### 3.1. Equations (12 pt)

Equations should be placed at the center of the line and provided consecutively with equation numbers in parentheses flushed to the right margin, as in (1). The use of Microsoft Equation Editor or MathType is preferred.

$$E_v - E = \frac{h}{2.m} (k_x^2 + k_y^2) \quad (1)$$

All symbols that have been used in the equations should be defined in the following text.

#### 3.2. Algorithm or Pseudocode (12 pt)

The algorithm or pseudocode is written using consolas font with 9 pt size and the alignment of the content is left. The name of the algorithm should be specified clearly. The description of the algorithm also should be stated in the require inside the table. See below example.

**Algorithm 1 Greedy search algorithm (10 pt)**


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**Require:** A The algorithm takes as input a graph  $G(V,E)$ , where  $V$  is the set of vertices and  $E$  is the set of edges. It also requires a start node  $s$ , a goal node  $g$ , and a heuristic function  $h(n)$  that estimates the cost from any node  $n$  to the goal. The output is a path from the start node  $s$  to the goal node  $g$ , if such a path exists.

```

1. Initialize open_list <- [s]
2. Initialize came_from <- empty map
3. while open_list is not empty do
4.     current <- node in open_list with lowest h(current)
5.     if current = g then
6.         return ReconstructPath (came_from, current)
7.     remove current from open_list
8.     for each neighbor in Neighbors(current) do
9.         if neighbor not in came_from then
10.            came_from[neighbor] <- current
11.            Add neighbor to open_list
12. return failure

```

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**3.3. Citation (12 pt)**

Proper citation of other works should be made to avoid plagiarism. When referring to a reference item, please use the reference number as in [16] or [17] for multiple references. The use of "Ref [18] ..." should be employed for any reference citation at the beginning of sentence. For any reference with more than 3 or more authors, only the first author is to be written followed by et al. (e.g. in [19]). Examples of reference items of different categories shown in the References section. Each item in the references section should be typed using 8 pt font size [20] – [25].

**3.3.1. Level 3 Section 1 (10 pt)**

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book.

**3.3.2. Level 3 Section 2 (10 pt)**

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book.

**4. Conclusion (14 pt)**

Provide a statement that what is expected, as stated in the "INTRODUCTION" section can ultimately result in "RESULTS AND DISCUSSION" section, so there is compatibility. Moreover, the prospects for the development of research results and the application of further studies can also be added to the next (based on the results and discussion).

**Acknowledgements (If applicable) (12 pt)**

This section should acknowledge individuals who provided personal assistance to the work but do not meet the criteria for authorship, detailing their contributions. It is imperative to obtain consent from all individuals listed in the acknowledgments.

**REFERENCES (12 pt)**

The main references are international journals and proceedings. All references should be to the most pertinent, up-to-date sources, and the minimum number of references should be 25 (for original research papers) and 50 (for review papers). References are written in IEEE style. You can access a more comprehensive guide at <http://ipmuonline.com/guide/refstyle.pdf>. Use a tool such as EndNote, Mendeley, or Zotero for reference management and formatting; choose IEEE style. Please use a consistent format for references—see examples (10 pt):

**[1] Journal/Periodicals**

*Basic Format:*

J. K. Author, "Title of paper," *Abbrev. Title of Journal/Periodical*, vol.  $x$ , no.  $x$ , pp.  $xxx-xxx$ , Abbrev. Month, year, doi:  $xxx$ .

*Examples:*

- » M. M. Chiampi and L. L. Zilberti, "Induction of electric field in human bodies moving near MRI: An efficient BEM computational procedure," *IEEE Trans. Biomed. Eng.*, vol. 58, pp. 2787–2793, Oct. 2011, doi:

10.1109/TBME.2011.2158315.

- » R. Fardel, M. Nagel, F. Nuesch, T. Lippert, and A. Wokaun, "Fabrication of organic light emitting diode pixels by laser-assisted forward transfer," *Appl. Phys. Lett.*, vol. 91, no. 6, Aug. 2007, Art. no. 061103, doi: 10.1063/1.2759475.

## [2] Conference Proceedings

*Basic Format:*

J. K. Author, "Title of paper," in *Abbreviated Name of Conf.*, (location of conference is optional), year, pp. xxx–xxx, doi: xxx.

*Examples:*

- » G. Veruggio, "The EURON roboethics roadmap," in *Proc. Humanoids '06: 6th IEEE-RAS Int. Conf. Humanoid Robots*, 2006, pp. 612–617, doi: 10.1109/ICHR.2006.321337.
- » J. Zhao, G. Sun, G. H. Loh, and Y. Xie, "Energy-efficient GPU design with reconfigurable in-package graphics memory," in *Proc. ACM/IEEE Int. Symp. Low Power Electron. Design (ISLPED)*, Jul. 2012, pp. 403–408, doi: 10.1145/2333660.2333752.

## [3] Book

*Basic Format:*

J. K. Author, "Title of chapter in the book," in *Title of His Published Book*, X. Editor, Ed., xth ed. City of Publisher, State (only U.S.), Country: Abbrev. of Publisher, year, ch. x, sec. x, pp. xxx–xxx.

*Examples:*

- » A. Taflove, *Computational Electrodynamics: The Finite-Difference Time-Domain Method in Computational Electrodynamics II*, vol. 3, 2nd ed. Norwood, MA, USA: Artech House, 1996.
- » R. L. Myer, "Parametric oscillators and nonlinear materials," in *Nonlinear Optics*, vol. 4, P. G. Harper and B. S. Wherret, Eds., San Francisco, CA, USA: Academic, 1977, pp. 47–160.

## [4] M. Theses (B.S., M.S.) and Dissertations (Ph.D.)

*Basic Format:*

J. K. Author, "Title of thesis," M.S. thesis, Abbrev. Dept., Abbrev. Univ., City of Univ., Abbrev. State, year.

J. K. Author, "Title of dissertation," Ph.D. dissertation, Abbrev. Dept., Abbrev. Univ., City of Univ., Abbrev. State, year.

*Examples:*

- » J. O. Williams, "Narrow-band analyzer," Ph.D. dissertation, Dept. Elect. Eng., Harvard Univ., Cambridge, MA, USA, 1993.
- » N. Kawasaki, "Parametric study of thermal and chemical nonequilibrium nozzle flow," M.S. thesis, Dept. Electron. Eng., Osaka Univ., Osaka, Japan, 1993.

\*In the reference list, however, list all the authors for up to six authors. Use *et al.* only if: 1) The names are not given and 2) List of authors more than 6. *Example:* J. D. Bellamy *et al.*, *Computer Telephony Integration*, New York: Wiley, 2010.

See the examples:

## REFERENCES

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