**JNTETI Journal Template**

First Author’s Name1, Second Author2, Third Author3

Table I  
Font Size for Paper

|  |  |  |  |
| --- | --- | --- | --- |
| Font Size | Display (in Times New Roman or Times) | | |
| *Regular* | *Bold* | *Italic* |
| 8 | Table description (in small caps), picture description, reference items |  | Reference item (partial) |
| 9 | Author email address, cell in the table | Abstract content, Abstract heading, table header and subheader | Abstract heading, table subheader |
| 10 | Heading level 1 (in small caps),  paragraph |  | Heading level 2,  heading level 3, author affiliation |
| 11 | Author’s name |  |  |
| 20 |  | Title in English |  |

***Abstract*—This document serves as a guideline for authors in writing their manuscripts for JNTETI publication. This document is adapted from the IEEE template. Authors are required to comply with the guidelines outlined in this document. Authors may use this document either as a writing guideline or template which can be immediately filled with appropriate contents of manuscripts. The Abstract is written in English and is approximately 250-300 words long. The length of Abstract is approximately half to ¾ column. Abstract contains at least four sections. The first section is introduction which covers a quarter of the Abstract. The second section defines research purposes. The third section explains the research methodology. The fourth section is the explanation of the research result. Citations in Abstract are not permitted.**

**Keywords**—Type your keywords here, which contains about 4-8 keywords and separated by commas.

1. Introduction

This document is a template. An electronic copy that can be downloaded from the website of Jurnal Nasional Teknik Elektro dan Teknologi Informasi UGM. For any questions about writing guideline, please contact JNTETI editorial team via email, as shown on the website. Information about the final submission paper is also available on the JNTETI UGM website (https://jurnal.ugm.ac.id/v3/JNTETI/).

1. Page Format

The easiest way to meet the requirement of writing format is by using this document as a template, and then type your text into it.

1. Writing Format

Page size must fit the A4 page size, which is 210 mm (8.27”) wide and 297 mm (11.69") length. Margin limits are set as below:

* Top = 19 mm (0.75")
* Bottom = 43 mm (1.69")
* Left = Right = 14.32 mm (0.56")

Article writing must be in two-column format with a space of 4.22 mm (0.17") between columns.

1. Page Style

1 Institution Name of First Author, Address and country name with COUNTRY ZIP CODE (tel.: 0274-555 225; fax: 0274-4321982; email: author1@institution.ac.auo)

2,3 Department of Electrical Engineering and Computer Science Faculty of Technology Tri Buwana University, Tunngul street A2 Majapahit 55281 INDONESIA (tel.: 0274-5555; fax: 0274-4321; email: [author2@mail.ugm.ac.id](mailto:author2@mail.ugm.ac.id))

*[Received: dd Month 20nn, Revised: 1 January 2022]*

The paragraph must be well organized. All paragraphs must be justified, which means the paragraph must be aligned left and right.

1. Document Letters

All documents must be in Times New Roman or Times font. Type 3 font may not be used. Another font type can be used if needed for special purpose. Font size features can be seen in Table I.

1. Title and Author

The title must be in normal 20 pt font size. Author’s name must be in normal 11 pt font size. The maximum words number for the title is 12 words.

Title and author name must be in a single column format and centered. Each first letter of words in the title must be in uppercase, except for particles, prepositions, and conjunctions such as "a/an", "and", "in/on/at", "by", "for", "from", "or" and its kind. Author’s name writing may not indicate a position (e.g., Supervisor lecturer), an academic degree (e.g., Dr.) or membership from any professional organization (e.g., IEEE Senior Member).

If there is family name, it is written in the last part of each Author’s name, (for example: Hidayat AK Suyono). Every affiliation must be included, at least company and country name of the author (for example: SWA Medical Centre Pty Ltd, INDONESIA). The email address is required for the concerned author.

In the field of author and affiliation information, the received date specifies the date the author submits their research paper to JNTETI. Meanwhile, the revised date indicates the date the author submits their revised paper following the review process.

Description: gv_figure_4

Fig. 1 Example of line chart with well contrast color on the computer screen.

1. Heading Section

We recommend that there are no more than 3 levels for heading. All headings must be in the 10 pt font size. Each word in the heading must be in uppercase except for particles, prepositions, and conjunctions as listed in section III-C.

1. Level 1 Heading: Level 1 heading must be in small caps, placed in the middle and used the numbering of Roman numerals. For example, see the "III. Page Style" heading from this document. Level 1 headings that may not use the numbering are "Acknowledgment", "References", "Conflict of Interest", and "Author Contribution".
2. Level 2 Heading: Level 2 heading must be in italics, close to the left and numbered using uppercase alphabets. For example, you can see the heading of "C. Heading Section" above.
3. Level 3 Heading: Level 3 heading must be spaced, italicized, and numbered with Arabic numbers followed by right parentheses. Level 3 heading must be ended with a colon. The contents of the level 3 section follow the heading title in the same paragraph. For example, this section starts with heading level 3.
4. Chart and Table

Charts and Tables must be centered. Large charts and tables can be stretched in both columns. Each table and image that includes a width of more than 1 column must be positioned at the top or at the bottom of the page.

Charts are allowed to be colored. Use solid coloring that contrasts well for display on the computer screen as shown in Fig. 1.

Fig. 2(a) shows example of a low-resolution image that is not in accordance with the provisions, while Fig. 2(b) shows an example of an image with sufficient resolution. Make sure that the image resolution is high enough so that the images’ details are visible. Please check all the images in your paper, ensure that:

* the color is in a high contrast,
* the image is clear,
* all the images’ labels are legible.

1. Image Caption

Images are numbered with Arabic numerals. Image caption must be in normal 8pt font. The single-line caption (e.g., Fig. 1) is centered, while the multi-line caption must be justified (e.g., Fig. 2). The image caption with the image number must be placed after the related image, as shown in Fig. 2.

1. Table Title

Tables are numbered using uppercase roman numerals. Table title is centered and must be in normal font with 8 pt size and in small caps. Each initial letter of words in the table title uses capital letters, except for particles, prepositions, and conjunctions as listed in section III-B. Table title is placed before the related table, as shown in Table I.

1. Page Number, Headers, and Footers

Page Number, header, and footer will be added accordingly by the JNTETI editorial team.

1. Links and Bookmarks

All hypertext links and bookmarks sections will be deleted. If the paper needs to refer to the email address or URL in the article, the full address or URL must be typed in a normal font and italics.

1. Equation Writing

Equations are sequentially followed by numbering in parentheses using right alignment, as shown in (1) below. Separate the equation and its equation number using a tab space. Use the equation editor to make the equation. To tighten your equation, use the right slash sign (/), rank function, or appropriate rank. Use parentheses to avoid confusion in writing fraction number. Explain the equation when it is in a part of a sentence, like the following example:

(1)

Make sure that the symbols in the equation have been defined before the equation or follow the equation directly after it appears. Symbols are typed in italics (*T* is for temperature, but T is for Tesla). When referring to an equation, write it as "(1)", not "Eq. (1)" or "equation (1)", except for the beginning of the sentence: "Equation (1) is …".

1. Reference

Title in reference section may not be numbered. All reference items are in 8 pt font size. Please write each reference in accordance with each source category as listed in Reference section. Numbering of reference items is typed sequentially in square brackets (for example [1]).

References are written according to IEEE standards/styles. When you refer to a reference item, please use a reference number, for example "[2]". Do not use "Ref. [2]" or "Reference [2]", except for the beginning of the sentence, for example, "Reference [2] indicates that ...". In the use of several references, each number is typed with separate brackets (for example [2], [3], [4] - [6]). Some examples of reference items with different categories are shown in the References section which includes:

* example of book in [1],
* example of book series in [2],
* example of journal article in [3],
* example of seminar paper in [4],
* example of patent in [5],
* example of website in [6],
* example of a web page in [7],
* example of manual database in [8],
* example of datasheet in [9],
* example of master’s thesis in [10],
* example of technical reports [11], and
* example of standard in [12].

Wikipedia, personal blog, and non-scientific websites must not be used as references. The main reference should be within the last 5 years and the minimum number of references is 20 with 80% of the total number of references being primary reference. Tools such as Zotero, Mendeley, or EndNote may be used for reference management



(a)



(b)

Fig. 2 Example of image with different resolutions, (a) in low resolution, (b) in low high resolution.

1. Conclusion

This template is the fourth version. Most of the formatting instruction in this document are adapted form IEEE article templates.

Conflict of Interest (Mandatory)

Declare conflicts of interest or state “The authors declare no conflict of interest.” Authors must identify and declare any personal circumstances or interest that may be perceived as inappropriately influencing the representation or interpretation of reported research results.

Author Contribution (Mandatory for Papers with Three Authors or More)

For research papers with three authors or more, a short paragraph specifying their individual contributions must be provided. The following statements should be used: “Conceptualization, **First** and **Second Author’s Name**; methodology, **First Author’s Name**; software, **First Author’s Name**; validation, **First, Second, and Third author’s Name**; formal analysis, **First Author’s Name**; investigation, **First Author’s Name**; resources, **First Author’s Name**; data curation, **First Author’s Name**; writing—original draft preparation, **First Author’s Name**; writing—review and editing, **First Author’s Name**; visualization, **First Author’s Name**; supervision, **First Author’s Name**; project administration, **First Author’s Name**; funding acquisition, **Second Author’s Name**”, etc. Authorship must be limited to those who have contributed substantially to the work reported.

Acknowledgement

The title for the acknowledgement and reference is not numbered. Acknowledgement for the JNTETI team for taking the time to create this template.

Reference

1. M. Metev and P. Veiko, *Laser Assisted Microtechnology*, 2nd ed., R.M. Osgood, Jr., Ed. Berlin, Germany: Springer-Verlag, 1998.
2. J. Breckling, Ed., *The Analysis of Directional Time Series: Applications to Wind Speed and Direction*, ser. Lecture Notes in Statistics. Berlin, Germany: Springer, 1989, Vol. 61.
3. S. Zhang, C. Zhu, J.K.O. Sin, and P.K.T. Mok, “A novel ultrathin elevated channel low-temperature poly-Si TFT,” *IEEE Electron Device Lett.*, Vol. 20, pp. 569–571, Nov. 1999.
4. M. Wegmuller, J.P. von der Weid, P. Oberson, and N. Gisin, “Highresolution Fiber Distributed Measurements with Coherent OFDR,” *Proc. ECOC’00*, 2000, paper 11.3.4, p. 109.
5. R.E. Sorace, V.S. Reinhardt, and S.A. Vaughn, “High-speed digital-to-RF converter,” U.S. Patent 5 668 842, Sept. 16, 1997.
6. (2002) The IEEE website. [Online], http://www.ieee.org/, access date: 16-Sep-2014.
7. M. Shell, (2002) IEEEtran homepage on CTAN. [Online], http://www.ctan.org/texarchive/macros/latex/contrib/supported/IEEEtran/, access date: 16-Sep-2014.
8. *FLEXChip Signal Processor (MC68175/D)*, Motorola, 1996.
9. “PDCA12-70 data sheet,” Opto Speed SA, Mezzovico, Switzerland.
10. A. Karnik, “Performance of TCP congestion control with rate feedback: TCP/ABR and rate adaptive TCP/IP,” M. Eng. thesis, Indian Institute of Science, Bangalore, India, Jan. 1999.
11. J. Padhye, V. Firoiu, and D. Towsley, “A stochastic model of TCP Renocongestion avoidance and control,” Univ. of Massachusetts, Amherst, MA, CMPSCI Tech. pp. 99-02, 1999.
12. *Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specification*, IEEE Std. 802.11, 1997