## F OR MAT A ND GU IDELINES F OR MA NU S CRIPT

**PR EPA R ATION A ND S U B MIS S ION TO JOU R NA L OF**

**A D VA NCED COMPUTING TECHNOLOGY AND APPLICATION (JA CTA)**

**M.R. Surname1, Y.Y. Abc1 and T.A. Xyz2**

1Fakulti Teknologi Maklumat dan Komunikasi,

Universiti Teknikal Malaysia Melaka, Hang Tuah Jaya, 76100 Durian

Tunggal, Melaka, Malaysia.

2Faculty of Information and Communication Technology,

University ABC, District, Postcode, State, Country.

Corresponding Author’s Email: 1surname@utem.edu.my

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**ABSTRACT:** Each manuscript should contain an abstract of about 200 words and should be typed using Palatino Linotype, Font size 10. The manuscript has to be camera ready.

**KEYWORDS**: *Please provide not more than 5 keywords. The keywords should be typed using Palatino Linotype, Font size 10, and italic. Example: Prolonged Standing; Muscle Activity; Stamping Process; Automotive Industry; Small and Medium Industries*

# 1.0 INTRODUCTION

This document contains the guidelines for manuscript preparation and submission. Please adhere strictly to these instructions to assure smooth production of journal article. Please use this template in preparing your manuscript.

# 2.0 PA PER F OR MAT

The manuscript should be prepared using Microsoft® Word and it must at least 4 pages and not exceed 12 pages, including tables, figures and a list of references. The text should be typed within a print area with margins similar to this template.

The body of the manuscript should be typed in single-column and single space. The title should be in capital letter and centered across the page. It should be typed in bold face using 11-point Palatino Linotype Font.

The paper should include names and addresses of all authors. The authors’ name should be typed in Palatino Linotype, font size 11 and bold face. The authors’ addresses and the corresponding author’s email should be typed in Palatino Linotype, font size 10.

The body text should be typed in Palatino Linotype, font size 11. Please use the following headings: Introduction, Methodology, Results and Discussion, Conclusion(s), Acknowledgements, and References.

## 2.1 Subsection Headings, Tables and Figures

The subsection headings should be numbered in Arabic numerals such as 1.1, 2.1, 3.1, etc. The figures and tables should be numbered consecutively and inserted within the text. The captions for figure should be placed below the illustrations, whereas the captions for tables should be placed above the table content. Both captions should be typed in Palatino Linotype, font size 10. If the discussions need to be arranged in point form, Roman numeral format is preferred such as below:

1. Example 1
2. Example 2

If further explanation on the Example 1 is needed, for example Sub Example 1, organize the point form as shown below:

1. Example 1
* Sub Example 1

The explanation of Sub Example 1 means the topic is discussed and justified for better understandings. The meaning of terminology is elaborated with sample data in the simulated or real environment.

1. Example 2
* Sub Example 2

Example of the figure and its caption is shown in Figure 1.



Figure 1: Sample of images in 300 dpi and 72 dpi

Example of table and its caption is shown in Table 1.

Table 1: Floating-point operations necessary to classify a sample

|  |  |  |  |
| --- | --- | --- | --- |
| Model | Feature extraction | Pre-processing | Classification |
| *KKNN* | >200,000 flops | ~10 flops | ~200 flops |
| ff NN |  |  | ~10,000 flops |

## 2.2 Photographs, Figures and Equations, Reference Style

All photographs and figures should have a good resolution and contrast quality. At least 300 dpi is applied for the image resolution.

The equations must use equation editor or MathType (Microsoft Word 2016 and upward) in their typesetting and it should be centered across the column, numbered consecutively with the respective number given in parentheses as follows:

 (1)

The JACTA uses IEEE Citation Reference (please refer to this manual for details). The references should be numbered and cited in text using square bracket in the following manner [1, 3-5]. A list of references should be provided under the section of references. Examples of references:

1. **Journal article/ periodicals**

**Note:** When referencing IEEE Transactions, the issue number and month should be deleted.

**Basic format:**

[1] J.K. Author, “Name of article,” Full Title of Journal/ Periodical, vol. x, no. x, pp. xxx-xxx, Year.

**Examples:**

[1] V. Balasubramanian, K. Adalarasu and R. Regulapati, "Comparing dynamic and stationary standing postures in an assembly task”, *International Journal of Industrial Ergonomics*, vol. 39, no. 5, pp. 649-654, 2009.

[2] S. Soleimani, M. Mirzaei and D. Toncu, "A new method of SC image processing for confluence estimation", *Micron*, vol. 101, pp. 206-212, 2017.

1. **CONFERENCE ARTICLES**

**Note:** list the author/s and title of the paper, followed by the name (and location, if given) of the conference publication in italics. Write out all the remaining words, but omit most articles and prepositions like “of the” and “on.” For examples, Proceedings of the 1996 Robotics and Automation Conference.

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[1] J.K. Author, “Title of paper,” in Unabbreviated Name of Conference, City of Conference, State (if given), year, pp. xxx-xxx.

**For an electronic conference article when there are no page numbers:**

[1] J.K. Author [two authors: J. K. Author and A. N. Writer] [three or more authors: J. K. Author], “Title of Article,” in [Title of Conference Record as it appears on the copyright page], [copyright year] © [IEEE or applicable copyright holder of the Conference Record]. doi: [DOI number]

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[1] J.K. Author, “Title of paper,” presented at the Name of Conference, City of Conference, State, year.

1. **BOOKS**

**Examples:**

[1] B. Klaus and P. Horn, *Robot Vision*. Cambridge, MA: MIT Press, 1986.

[2] R.C. Hibbeler, *Statics and Mechanics of Materials*, *SI Edition.* New Jersey: Prentice Hall, 2011.

1. **Handbooks**

**Basic format:** *Name of Manual/Handbook, x* ed., Name of Company, City of Company, State, year, pp. xx-xx.

**Example:**

[1] *Transmission Systems for Communications,* 3rd ed., Western Electric Co., Winston-Salem, NC, 1985, pp. 44–60.

1. **Theses (M.S.) and Dissertations (Ph.D.)**

**Basic Format:**

[1] J.K. Author, “Title of thesis,” M.S. thesis, Department, University, City of University, State, year.

[2] J.K. Author, “Title of dissertation,” Ph.D. dissertation, Department, University, City of University, State, year.

**Examples:**

[1] J.O. Williams, “Narrow-band analyzer,” Ph.D. dissertation, Department of Electronic Engineering, Harvard University, Cambridge, MA, 1993.

[2] N. Kawasaki, “Parametric study of thermal and chemical nonequilibrium nozzle flow,” M.S. thesis, Department of Electronic Engineering, Osaka University, Osaka, Japan, 1993.

1. **Reports**

**Note:** Place the name and location of the company or institution after the author and title and to give the report number and year at the end of the reference.

**Basic Format:**

[1] J.K. Author, “Title of report,” Name of Company, City of Company, State, xxx, year.

**Examples:**

[1] E.E. Reber “Oxygen absorption in the earth’s atmosphere,” Aerospace Corp., Los Angeles, CA, Tech. Rep., TR-0200 (4230-46)-3, 1988.

[2] J.H. Davis and J.R. Cogdell, “Calibration program for the 16-foot antenna,” Electrical Engineering Research Laboratory., University of Texas, Austin, Technical Memo. NGL-006-69-3, 1987.

1. **ONLINE sOURCES**

**Note:** The basic guideline for citing online sources is to follow the standard citation for the source given previously and add the Digital Object Identifier (DOI) at the end of the citation, or add the DOI in place of page numbers if the source is not paginated. The DOI for each IEEE conference article is assigned when the article is processed for inclusion in the IEEE Xplore digital library and is included with the reference data of the article in Xplore.

1. **FTP**

**Basic Format:**

[1] J.K. Author. (year). *Title* (edition) [Type of medium]. Available FTP: Directory: File:

**Example:**

[1] R.J. Vidmar. (1994). *On the use of atmospheric plasmas as electromagnetic reflectors* [Online]. Available FTP: atmnext.usc.edu Directory: pub/etext/1994 File: atmosplasma.txt

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**Example:**

[1] J. Jones. (1991). *Networks* (2nd ed.) [Online]. Available: http://www.atm.com

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# 4.0 CONCL U S ION

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References must be at least 20 articles and more than 60% of the references are from the indexed article journals. References are presented in Roman script or Times New Roman and the font size is 10.

# ACKNOWLEDGMENTS

The JACTA committee would like to thank all the authors for their manuscript contributions.

# REFERENCES

[1] V. Balasubramanian, K. Adalarasu and R. Regulapati, "Comparing dynamic and stationary standing postures in an assembly task”, *International Journal of Industrial Ergonomics*, vol. 39, no. 5, pp. 649-654, 2009.

[2] L. Rozakis, *Schaum’s Quick Guide to Writing Great Research Papers*. New York: McGraw-Hill, 2007.

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