

Instructions to Authors for Paper Submission in Journal of Engineering and Scientific Advances

ABSTRACT

The abstract should concisely summarize the contents of a paper. Since potential readers should be able to make their decision on the personal relevance based on the abstract, the abstract should clearly tell the reader what information he can expect to find in the paper. The most essential issue is the problem statement and the actual contribution of described work. The authors should always keep in mind, that the abstract is the most frequently read part of a paper. It should contain no more than 250 words. This document gives formatting instructions for authors preparing papers for publication in Journal of Engineering and Scientific Advances (JESA). The authors must follow the instructions given in the document for the papers to be published. Authors can use this document as both an instruction set and as a template into which they can type their own text. Use the word “ABSTRACT” in 10-point Times New Roman, bold face type, centered, uppercase as it is here below one line gap of 10-point after the Title. The body of the abstract is to be in justified text, at the top in single column, 10-point Times New Roman, single-spaced, justified. Leave one blank line after the abstract and then begin the main text. Abstract should not contain references, figures, tables, or equations.

Key words: Provide 4–6 keywords separated by commas (e.g., Paper, JESA, DUET, Scientific Advances).

1. INTRODUCTION

Dhaka University of Engineering & Technology (DUET), Gazipur is one of the reputed universities for the study of Engineering in Bangladesh. The University originated in 1980 as a Faculty of Engineering under the University of Dhaka offering four years Bachelor degree in Civil, Electrical and Electronic, and Mechanical Engineering to meet the growing need for advanced engineering education in Bangladesh.

To enhance the research capability of Teachers and Engineers, DUET is publishing Journal of Engineering and Scientific Advances (JESA) in a regular interval. Before it was named as DUET Journal.

JESA publishes original research, reviews, technical notes, and other scholarly contributions in engineering and applied sciences. To ensure uniformity and high quality, all submissions must follow these guidelines. Papers must be submitted through the JESA online submission portal in pdf format. By submitting, authors confirm originality of the work, proper citation of sources, and compliance with ethical guidelines. Plagiarism, duplicate submission, or data fabrication will result in rejection. JESA follows a double-blind peer review process. Authors must ensure their manuscript is anonymized by removing names, affiliations, self-citations, and acknowledgments before initial submission. A similarity check will be conducted. Papers with a similarity index greater than 30% will be rejected without review.

The word copy of this document serves two purposes. First it is a template and example for authors who want to submit paper in JESA. Second, the text in the sections contains useful information on structuring and writing your paper. We recommend the authors to read the following sections carefully in order to avoid common mistakes.

The guidelines include complete description of the font, spacing, and related information for producing your journal papers.

An electronic copy of this instruction can be downloaded from the JESA website (<https://journal.duetbd.org/>).

The introduction should consist of three parts. The first part deals with the background of the work and describes the field of research. It should also elaborate on the general problem statement and the relevance. The second part should describe the focus of the paper, typically the paragraph starts with a phrase like “The objective of this paper is ...”. The last part should describe the structure of the paper.

2. FORMATTING YOUR PAPER

The paper must be in A4 sized (210 mm × 297 mm) paper. The paper must have a top margin of 25 mm, bottom margin of 22 mm and a left and right margin of 16 mm on each page. The text of the paper must be in two columns format with a gap of 8 mm between the columns. In general, all the text should be in single-spaced, fully justified, 10-point Times New Roman font and there should be one line gap between paragraphs, titles, sections, subsections, etc. Please note that the submitted paper must be limited to **6 (six)** pages.

The title should be 16-point bold in Times New Roman. Leave one blank line of 16-point after the title. The section title should be UPPERCASE, left justified in 10-point Times New Roman bold type.

2.1 Subsection

The subsection title should be in 10-point Times New Roman, bold, Title Case, left justified.

2.1.1 Sub-subsection

The sub-subsection is discouraged. However, if you use them, use title in 10-point Times New Roman, bold, Title Case, left justified.

2.2 Footnotes

Footnotes (if any) are used at the bottom of the column on the page on which they are referenced. Use Times New Roman 8-point type, single-spaced.

2.3 References

The heading of the References section must not be numbered. In the text, number the references in order of appearance in the paper and enclosed the citation number in square brackets (e.g., [1]). When referring to a reference item, please simply use the reference number, as in [2]. Do not use “Ref. [3]” or “Reference [3]”. Multiple references can be written as: [2, 3, 4-6]. List and number all bibliographical references at the end of the paper in 10-point Times New Roman font, single-spaced, fully justified. IEEE reference style is preferred.

Examples of reference items of different categories shown in the References section include:

- example of a book in [1]
- example of a journal article in [2]
- example of a conference paper in [3]
- example of a patent in [4]
- example of a web page in [5]
- example of a master’s thesis in [6]
- example of a technical report in [7]
- example of a standard in [8]

3. EQUATIONS, TABLES, ILLUSTRATIONS, GRAPHS AND PHOTOGRAPHS

All equations, figures and tables should be arranged as described in this template.

3.1 Equations and Symbols

Authors are requested to use Math Type or Equation Editor

for equation writing. Equations should be centered and corresponding symbols (if necessary) should be described after that, as in Eqn. (1).

$$\phi(r) = \int G(r, r')p(r')dV' \quad (1)$$

Where, $G(r, r')$ is the Green’s function, which describes the Wave function $\phi(r)$ at the observation point r generated by the unit point source at the source point r' and $p(r')$ is the source density.

3.2 Figures and Tables

All figures and tables should be centered. These must be placed in the paper as part of the text after their first citation. Usually, figures and tables should be in one column (if possible), but large figures and tables may span across both columns. Any table or figure that takes up more than 1 column width must be positioned either at the top or at the bottom of the page. Authors should ensure that figure labels, axis titles, and legends are readable at journal print size. Figures may be color or in black & white. If a paper is accepted for publication, the authors need to provide the high-resolution figures in a separate file in TIFF, JPEG or EPS format.

All figures must have an underneath caption, and should be kept as concise as possible. Captions must be in 10-point Times New Roman, centered (multi-line captions must be justified) and numbered sequentially. Try to use same typed and sized fonts (e.g., Times New Roman 10-point font) for labeling your figure as in Fig. 1. Captions with figure numbers must be placed after their associated figures.

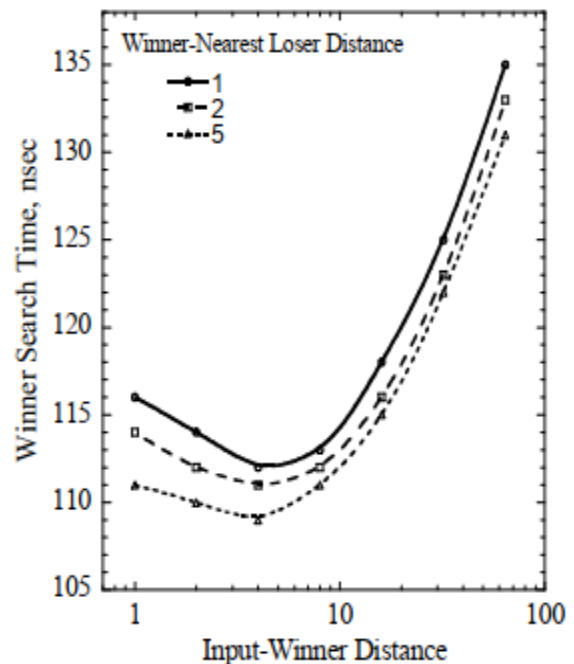


Fig. 1: Winner search time according to the Euclidean distance measure as a function of input-winner distance for different winner-nearest loser distances.

Tables must be numbered using Roman numerals. Captions must be in 10-point Times New Roman, centered (multiline captions must be justified) and numbered sequentially. Captions with table numbers must be placed before their associated tables, as shown in Table I.

Table I: Layout of paper

Paper Size: A4 (210mm × 297mm)	
Top Margin	25 mm
Bottom Margin	22 mm
Left Margin	16 mm
Right Margin	16 mm
Header from Edge	15 mm
Column Width	85 mm
Column Separation	8 mm
Font	Times New Roman
Font Size	10-point
Maximum Pages	6 (six)
Title	15-point

4. CONCLUSION

The conclusion should briefly summarize the problem statement and the general content of the work and emphasize on the main contribution of the work. When writing the conclusion keep in mind that some readers may not have gone through the whole paper, but have jumped directly to the conclusion after having read the abstract in order to decide on the personal relevance of the paper. Therefore, the conclusion should be self-contained, which means that a reader should be able to understand the essence of the conclusion without having to read the whole paper. The conclusion typically ends with an outlook that describes

possible extensions of the presented approaches and of planned future work.

REFERENCES

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