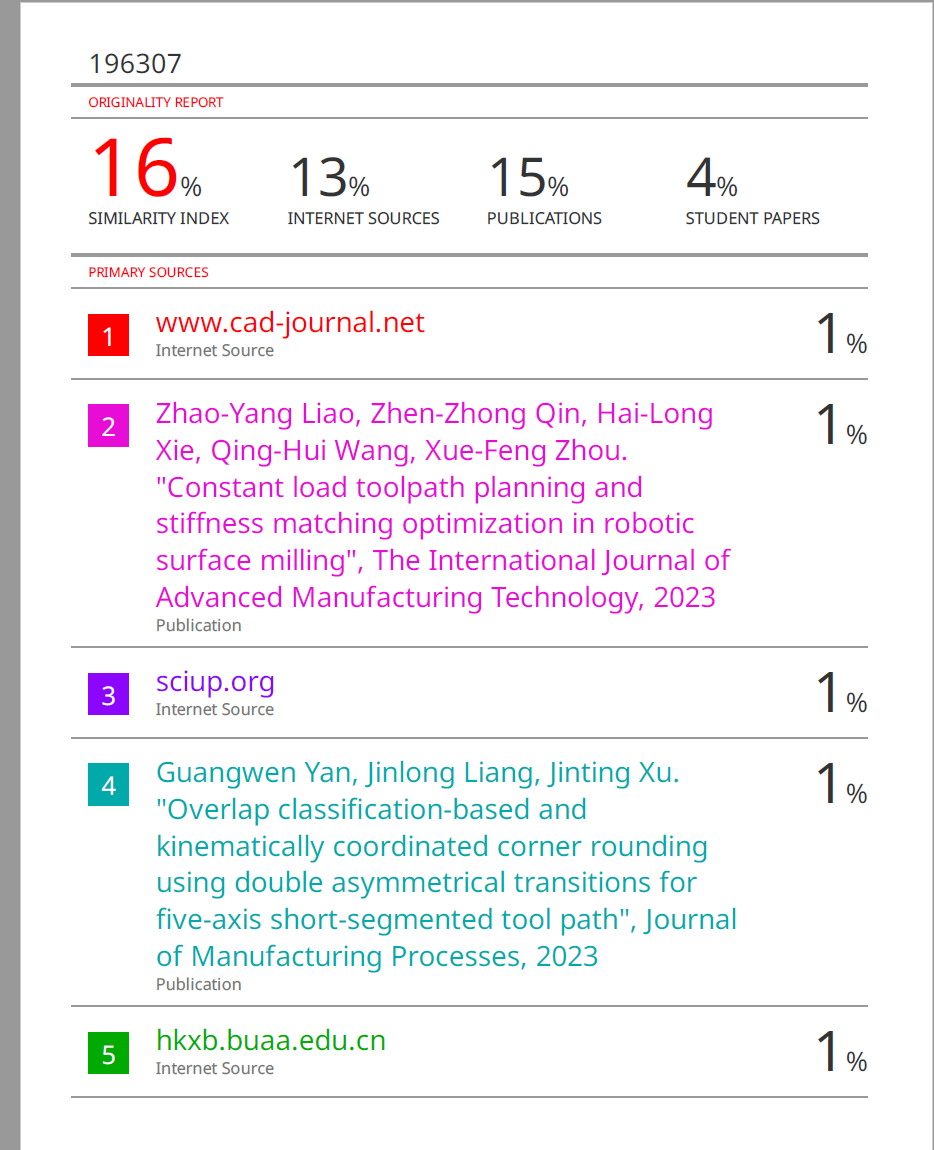
请在论文第一页附上查重报告截图（turnitin），重复率请控制在30%以下全文查重（含文献）



页面尺寸设置如下：

页边距：上：2.54厘米，下：4.94厘米，左：1.93厘米，右：1.93厘米

纸张大小：A4（宽度：21厘米，高度：29.7厘米）

无网格（论文要满4页以上）

SPIE proceedings manuscript sample (A4 size)（论文题目字体Times New Roman，字号三号 ，加粗，居中，第一个单词的首字母大写，其余小写，专有名词可大写）

San Zhanga,1, Si Lib,2, Wu Wangc,3\*（作者名字字体Times New Roman，字号小四，居中，名字一定要先名后姓，要全称）

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（作者单位字体Times New Roman，字号小四，居中，单位一定要对应作者名字）

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（作者邮箱字体Times New Roman，字号小四，居中，每个作者都需要有邮箱，而且一定要对应作者名字）

Abstract （Abstract的字体Times New Roman，字号11，加粗，居中，段前24 磅，段后12磅，全部大写）

Begin the abstract two lines below author names and addresses. The abstract summarizes key findings in the paper. It is a paragraph of 250 words or less. For the **keywords**, select up to 8 key terms for a search on your manuscript's subject.

（Abstract的内容字体Times New Roman，字号10，段后6磅）

**Keywords:** Times Roman, image area, acronyms, references（关键词字体Times New Roman，字号10）

# INTRODUCTION （一级标题字体Times New Roman，字号11，加粗，居中，悬挂缩进0.63 厘米，段前12 磅，段后6 磅，全部大写）

Begin the Introduction two lines below the Keywords. The manuscript should not have headers, footers, or page numbers. It should be in a one-column format. References are often noted in the text1 and cited at the end of the paper.

标题下的正文内容字体Times New Roman，字号10，段后6 磅

## Margins（二级标题字体Times New Roman，字号10，加粗，悬挂缩进0.63 厘米，段后6 磅，第一个单词的首字母大写以及专用名称大写，其余小写）

If the paper does not have the margins shown in Table 1, it will not upload properly.

Table 1. Margins and print area specifications.（表格标题字体Times New Roman，字号小五，居左，段后6 磅，左右各缩进：0.63厘米，悬挂缩进：0.63厘米，只有第一个单词的首字母和专有名词大写，其余小写，所有“Table”必须是全称，不能缩写，标题结束要加句号。表格一定要可编辑！表格一定要在正文明确引用。）

**PAPER MARGINS**

A4 Letter

Top margin 2.54 cm  *(1in.)* Top margin 1.0 in.  *(2.54 cm)*

Bottom margin 4.94 cm *(1.95 in.)* Bottom margin 1.25 in. *(3.17 cm)*

Left, right margin 1.925 cm *(.76 in.)* Left, right margin .875 in.  *(2.22 cm)*

Printable area--all text, figures and footnotes:   
A4: 17.15×22.23 cm Letter : 6.75×8.75 in.

表格里面的内容，字体Times New Roman，字号小五

## Fonts

Table 2 shows the font sizes and highlighting in a typical manuscript. These font "styles" are contained with this sample manuscript and Section 4 below explains how to use them. Use Times Roman or another standard font to avoid font errors.

Table 2. Manuscript font sizes and formatting. This Microsoft Word template includes these formats as automated "styles,” which can be selected in the Format menu -- Styles and Formatting. (9pt)

## Preformatted SPIE Template Styles

## *Manuscript component Description*

## SPIE paper title 16 pt. bold, center

## SPIE authors/affiliations 12 pt., center

**Keywords:** \*Keywords\* 10 pt., left justify

### SPIE ABSTRAC**T TITLE** 11 pt. BOLD, center

SPIE abstract body text 10 pt., justify

### SPIE SECTION HEADING 11 pt. BOLD, center, whole numbers

**1.1 Heading 2, SPIE subsection heading 10 pt. bold, left justify, subsection numbers**

SPIE body text 10 pt., justify

SPIE figure caption 9 pt., justify below figure

SPIE table caption 9 pt., justify above figure

SPIE footnote text 9 pt., justify, numbered

**REFERENCE HEADING 11 pt. BOLD, center**

1. SPIE reference listing 10 pt., justify, numbered in brackets

# Formatting of manuscript components

## Title

Center the paper title at the top of the page in 16-pt. bold. Only the first word, proper nouns, and acronyms are capitalized. Keep titles brief and descriptive. Spell out acronyms unless they are widely known. Avoid starting with articles or prepositions, e.g., “The study of … ,” or, “On the ….”

## Author affiliations

The author list is in 12-pt. regular, centered. Omit titles and degrees such as Dr., Prof., Ph.D., etc. The list of affiliations follows. Each author's affiliation should be clearly noted.

## Section headings

Section headings are 11-pt. bold capitals, centered. Sections numbers have whole numbers, e.g., 1, 2, 3… Don't number the "Acknowledgements" and "References." Headings often used are: 1. Introduction, 2. Methodology, 3. Data, 4. Results, and 5. Conclusions.

## Subsection heading

Subsection headings are left-justified, 10-pt. bold. Capitalize the first word, acronyms, and proper nouns.

## Paragraphs

Add a blank line above and below section headings and between paragraphs. Avoid headings or one-line paragraphs at the top or bottom of a page by using page breaks or extra blank lines. One method to preserve page breaks is to make the bottom margin a little larger than the specifications. Indentation is optional. This spacing is automatic if you are using the SPIE "section" styles in Word.

## Text

Text is 10 point and justified. Each sentence ends with a period and a single space before the next sentence.

## Figures and captions

Figures are centered. Use or insert .jpg, .tiff, or .gif illustrations instead of PowerPoint or graphic constructions. Captions go below figures. Indent 5 spaces from left margin and justify.



（图片 段前6磅，段后6磅，居中）

Figure . Figure captions are indented 5 spaces and justified. If you are familiar with Word styles, you can insert a field code called Seq figure which automatically numbers your figures. （图片标题字体Times New Roman，字号小五，居左，段后6磅，左右各缩进：0.63厘米，只有第一个单词的首字母和专有名词大写，其余小写，所有“Figure”必须是全称，不能缩写，标题结束要加句号。图片一定要在正文明确引用！图片一定要清晰可见）

## Tables and captions

Tables are centered. The caption goes above the table. The caption text should indent 5 spaces from left margin and justify. Table examples are on page 1 and 2 and below.

# Multimedia figures – video and audio files

Video and audio files can be included for publication. Table 3 lists the specifications for the mulitimedia files. Use a screenshot or another .jpg illustration for placement in the text. Use the file name to begin the caption. The text of the caption must end with the text "<http://dx.doi.org/doi.number.goes.here>" which tells the SPIE editor where to insert the hyperlink in the digital version of the manuscript.

Here is a sample illustration and caption for a multimedia file:



Video . A label of “Video/Audio 1, 2, …” should appear at the beginning of the caption to indicate to which multimedia file it is linked . Include this text at the end of the caption: <http://dx.doi.org/doi.number.goes.here>

Table 3. Information on video and audio files that can accompany a manuscript submission.

|  |  |  |
| --- | --- | --- |
| **Item** | **Video** | **Audio** |
| File name | Video1, video2, … | Audio1, audio2, … |
| Number of files | 0-10 | 0-10 |
| Size of each file | max. 5 mb | max. 5mb |
| File types accepted | .mpeg, .mov (Quicktime), .wmv (Windows Media Player) | .wav, .mp3 |

# Mathematical Equations

Use common fonts like Times Roman in your math equations. A math reference in a paragraph sentence such as  is not numbered. The steps of a mathematical argument can be numbered using a right-aligned tab for clarity, for example

α =  (1)

公式段后：6磅，用阿拉伯数字按顺序给公式编号，公式居中，公式序号位于与右边框齐平的括号中

and

*ρ*=. (2)

# using THIS TEMPLATE AND ITS Automatic formatting

This document template and more information is available on SPIE.org:

<http://spie.org/x14101.xml> or by emailing [authorhelp@spie.org](mailto:authorhelp@spie.org)

## View the pre-formatted styles

To see the formats available with this manuscript, go to the Format menu and choose "Styles and Formatting.” To view which style is being used in any part of this document, place your cursor on the line and look in the Styles and Formatting display.

## Using SPIE styles

To use this template in Microsoft Word: open this file and save it to a new file name. Type over the existing text with your paper. Alternately, you can delete all text, and select the SPIE style for each paragraph from the Styles and Formatting menu.

## Notes on SPIE styles

The styles listed in Table 2 automatically add extra spacing before and/or after paragraphs: SPIE title, SPIE authors-affiliations, SPIE section heading, SPIE subsection heading, and SPIE body text. The 1.1 Heading 2 style automatically goes into the body text style after one paragraph return.

**ACKNOWLEDGMENTS（ACKNOWLEDGMENTS**字体Times New Roman，字号11，加粗，居中，段前24 磅，段后12 磅，全部大写**）**

References（References字体Times New Roman，字号11，加粗，居中，段前24 磅，段后12 磅，全部大写）

1. Gao J. Y., Yang D. F., Wang S., Z. T. Li, Wang L. C., Wang K., State of health estimation of lithium-ion batteries based on Mixers-bidirectional temporal convolutional neural network[J]. Journal of Energy Storage, 2023, 73: 109248.
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5. WANG JITUO, WANG WANCHENG, CHEN HONGWEI. Photovoltaic power prediction based on regression —— Markov chain [J]. Electrical measurement and instrument.2019, 56(01): 76-81.

参考文献的内容字体Times New Roman，字号10，左侧0.63 厘米，悬挂缩进0.63 厘米，参考文献不能低于5条，且被引用的文献作者来源应来自三个或者三个以上国家，参考文献在正文中的引用需要以上标的形式标注。