

# Sample EuMW Paper for A4 Page Size

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**Abstract** — Limit your abstract to one paragraph and keep it short. In the **Keywords** section, include a few keywords from: [http://www.ieee.org/organizations/pubs/ani\\_prod/keywrd98.txt](http://www.ieee.org/organizations/pubs/ani_prod/keywrd98.txt)

**Keywords** — ceramics, delay filters, power amplifiers, coaxial resonators.

## I. INTRODUCTION

Not all IEEE conferences use the same template. For your paper to be published in the conference proceedings, you must use this document as both an instruction set and as a template into which you can type your own text. If your paper does not conform to the required format, you will be asked to fix it.

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## II. PAGE LIMIT AND PAGE LAYOUT

### A. Page Limit

The page limit is 4 pages. You must not reduce margins or font-sizes or spacing to meet page limit. You must not change the required formats to meet page limit.

In summary, you must follow the formats as shown in this template (e.g. acknowledgments must be formatted as a

separate section and not as a paragraph, single author block centered to the page must be used instead of multiple author blocks). You will be asked to fix these format problems if any such format deviations are detected.

An easy way to comply with the conference paper format requirements is to use this document as a template and simply type your text into it.

### B. Page Layout

Your paper must use a page size corresponding to A4 which is 210mm (8.27") wide and 297mm (11.69") long. The margins must be set as follows:

- Top = 19mm (0.75")
- Bottom = 43mm (1.69")
- Left = Right = 12.9mm (0.51")

Your paper must be in two column format with column width = 88.9mm (3.5") and column spacing = 6.3mm (0.25").

## III. PAGE STYLE

### A. Text Font of Entire Document

The entire document must be mainly in Times New Roman or Times font. Other fonts (e.g. Symbol font), if needed for special purposes, may be used sparingly. Type 3 fonts must not be used.

Required font sizes are shown in Table 1.

### B. Title

Title must be in 24pt and in regular font style (i.e. not bold and not italic). Author name must be in 11pt regular. Author affiliation and email address must be in 10pt regular.

Table 1. Font sizes for papers. Table caption with more than one line must be justified. Table caption with just one line must be centered.

Font Size	Font Style (in Times New Roman font or Times font)		
	Regular	Bold	Italic
8	table caption, figure caption, reference item		
9	cell in a table	abstract, keywords	also in bold: abstract section heading, keywords section heading
10	affiliation, email address, level-1 heading, paragraph		level-2 heading, level-3 heading
11	author name		
24	title		

All title and author details must be in single-column format and must be centered to the page.

Every word in a title must be capitalized except for short minor words such as “a”, “an”, “and”, “as”, “at”, “by”, “for”, “from”, “if”, “in”, “into”, “on”, “or”, “of”, “the”, “to”, “with”.

### C. Author Details

Author details must not show any professional title (e.g. Managing Director), any academic title (e.g. Dr.) or any membership of any professional organization (e.g. Senior Member IEEE).

Do not split an author name into two lines, i.e. an author name must appear entirely on the same line. To avoid confusion, the family name must be written as the last part of each author name (e.g. John A.K. Smith) and must not be shown in all uppercase. To avoid incorrect author name indexing by digital libraries, an author with more than one family name should consider hyphenating the multiple family names (e.g. Francisco Santos-Leal).

Each affiliation must include, at the very least, the name of the company and the name of the country where the author is based (e.g. Causal Productions Pty Ltd, Australia).

Email address must be shown for the corresponding author.

### D. Section Headings

No more than 3 levels of headings should be used. All headings must be in 10pt font. Every word in a heading must be capitalized except for short minor words as listed in Section III.B.

#### 1) Level-1 Heading

A level-1 heading must be in small caps, centered and numbered using uppercase Roman numerals (e.g. heading of section I). The only exception is in the case of the acknowledgment section heading and the references section heading: these two level-1 section headings must not have section numbers.

#### 2) Level-2 Heading

A level-2 heading must be italic, justified and numbered using an uppercase alphabetic letter followed by a period (e.g. heading of section III.D).

#### 3) Level-3 Heading

A level-3 heading must be italic, justified and numbered using Arabic numerals followed by a right parenthesis (e.g. heading of section III.D.3).

### E. Paragraphs

All paragraphs must be indented. All paragraphs must be justified.

### F. Figures and Tables

Figures and tables must be centered in the column. Large figures and tables may span across both columns. Any figure or table that takes up more than one column width must be placed either at the top or at the bottom of the page, as shown in Fig. 3 and Table 2.

Graphics may be full color. All colors will be retained in the proceedings. Use only solid fill colors which contrast well both on screen and on black-and-white hardcopy, as shown in Fig. 1.

Fig. 2a shows an example of a low-resolution image which would not be acceptable, whereas Fig. 2b shows an example of an image with adequate resolution. Check that the resolution is adequate to reveal the important detail in the figure.

Check all figures in your paper both on screen and on a black-and-white hardcopy. When you check your paper on a black-and-white hardcopy, ensure that:

- the colors used in each figure contrast well,
- the image used in each figure is clear,
- all text labels in each figure are legible.

### G. Figure Numbers and Table Numbers

Figures and tables must be numbered using Arabic numerals (e.g. 1, 2, etc).

Figures have their own sequence of numbers starting from Fig. 1. Figures must be numbered consecutively in the order they appear in your paper.

Tables have their own sequence of numbers starting from Table 1. Tables must be numbered consecutively in the order they appear in your paper.

### H. Figure Captions and Table Captions

Captions must be in 8pt regular. A single-line caption must be centered (e.g. Fig. 2, Table 2) whereas a multi-line caption must be justified (e.g. Fig. 1, Fig. 3, Table 1).

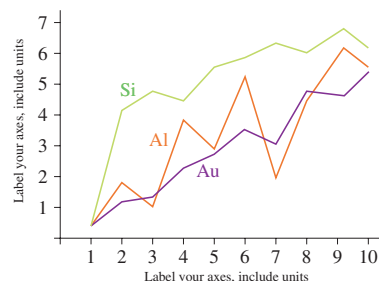


Fig. 1. A sample line graph using colors which contrast well both on screen and on a black-and-white hardcopy. Figure caption with more than one line must be justified. Figure caption with only one line must be centered.

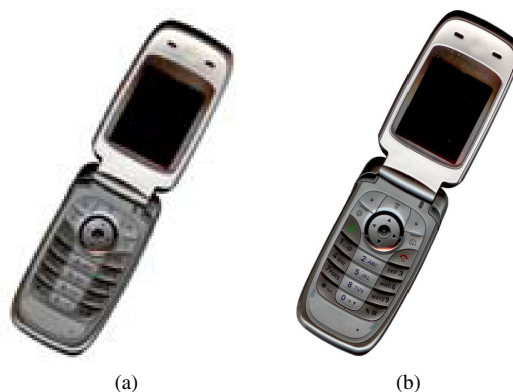


Fig. 2. Image resolution: (a) unacceptable; (b) acceptable



Fig. 3. A figure which spans two columns must be placed either at the top of a page or at the bottom of a page. Figure caption with more than one line must be justified. Figure caption with only one line must be centered.

A figure caption must be placed below the associated figure whereas a table caption must be placed above the associated table.

A caption must be kept together with its associated figure or table, i.e. they must not be separated into different columns or onto different pages.

#### I. Page Numbers, Headers and Footers

Page numbers, headers and footers must not be used.

#### J. Links and Bookmarks

During the processing of papers for publication, all hypertext links and section bookmarks will be removed from papers and the affected texts will be changed to black color. If you need to refer to an Internet email address or URL in your paper, you must write the address or URL fully in your text in regular font style and black colour.

#### K. Equations

Equations should be centered in the column and numbered sequentially. Place the equation number to the right of the equation within a parenthesis, with right justification within its column. An example would be

$$\oint E \cdot dL = -\frac{\partial}{\partial t} \iint B \cdot dS \quad (1)$$

$$\nabla \times H = J + \frac{\partial D}{\partial t}. \quad (2)$$

Note that a period is used to properly punctuate the previous sentence. It is placed at the end of the second equation. Make sure that all parts of your equations are legible and are not too small to read. When referring to an equation, use the number within parenthesis. For example, you would usually refer to the second equation as “(2)” rather than “equation (2)”.

#### L. References

The heading of the References section must not be numbered. All reference items must be in 8pt. Number the reference items consecutively in square brackets (e.g. [1]).

When referring to a reference item, simply use the reference number, as in [2]. Do not use “Ref. [3]” or “Reference [3]” except at the beginning of a sentence, e.g. “Reference [3] shows ...”. Multiple references are each numbered with separate brackets (e.g. [2], [3], [4]–[6]).

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

- example of a book in [1]
- example of a book in a series in [2]
- example of a journal article in [3]
- example of a conference paper in [4]
- example of a patent in [5]
- example of a website in [6]
- example of a web page in [7]
- example of a databook as a manual in [8]
- example of a datasheet in [9]
- example of a master’s thesis in [10]
- example of a technical report in [11]
- example of a standard in [12]

#### M. Balancing Columns on a Page

There is no requirement to balance both columns on any page including the last page, i.e. both columns are not required to be vertically aligned at the bottom. Do not change the vertical spacing in order to align the bottoms of both columns.

#### IV. INFORMATION FOR LATEX USERS ONLY

There are important differences between the IEEE format and the EuMW format, so you must use all files provided in the EuMW LaTeX template.

If the appearance is different from what is shown in this template, then the cause may be the use of conflicting style files in your .tex file (e.g. latex8.sty). You must remove all such conflicting style files.

For the table caption to appear above the table, you must place the table caption at the start of the table definition and before the table cells in your .tex file.

Authors must use the \raggedbottom option (as used in this template file) to avoid LaTeX inserting inconsistent and sometimes large spacing around section headings, around captions and around paragraphs.

You must follow the formats as shown in this template. You must not use alternative styles which are not used in this template (e.g. two-author block).

#### V. INFORMATION FOR WORD USERS ONLY

You must use the styles in Table 2 to format your paper. To format using a style name, open the “Styles” task pane under “Home”, select the texts to be formatted, then select an appropriate style in the “Styles” task pane.

Table 2. Main predefined styles in WORD. Table which spans 2 columns must be placed either at top of a page or at bottom of a page.

Style Name	To Format ...
EuMW Title	title
EuMW Author Name	author name
EuMW Author Name + Superscript	affiliation indicator and email address indicator in author name
EuMW Author Affiliation/Email-Address	author affiliation, author email address
EuMW Author Affiliation/Email-Address + Superscript	indicator in author affiliation and in author email address
EuMW Abstract/Keywords Heading	abstract section heading, keywords section heading
EuMW Abstract/Keywords	abstract, keywords
EuMW Heading 1	1st level section heading
EuMW Heading 2	2nd level section heading
EuMW Heading 3	3rd level section heading
EuMW Paragraph	paragraph
EuMW Caption Single-Line	figure or table caption containing one line
EuMW Caption Multi-Lines	figure or table caption containing more than one line
EuMW Acknowledgment Heading	acknowledgment section heading
EuMW Reference Heading	reference section heading
EuMW Reference Item	reference item

When the heading styles in Table 2 are used (e.g. “EuMW Heading 1” style), section numbers are no longer required to be typed in because they will be automatically numbered by WORD. Similarly, reference items will be automatically numbered by WORD when the “EuMW Reference Item” style is used.

Section headings must not be in all uppercase. Capitalize the headings and then format them using an appropriate style from Table 2.

After changing from single column format to two column format (e.g. after Table 2), always make sure that both the column width and the column spacing are the same as specified in the last paragraph of section II.B.

If your WORD document contains equations, you must not save your WORD document from “.docx” to “.doc” because when doing so, WORD will convert all equations to images of unacceptably low resolution.

Do not use text box for figure captions or table captions. Simply type the caption below the figure or above the table and then format the caption using an appropriate style from Table 2.

## VI. CONCLUSION

EuMW offers A4 templates for LaTeX and WORD. The version of this template is V4. The format of this template was adapted by Causal Productions mainly from the IEEE LaTeX class file. There are important differences between the IEEE format and the EuMW format, so EuMW authors must use only the EuMW templates.

## ACKNOWLEDGMENT

The headings of the Acknowledgment section and the References section must not be numbered.

Causal Productions wishes to acknowledge Michael Shell and other contributors for developing and maintaining the IEEE LaTeX class file used in the preparation of this template.

To see the list of contributors, please refer to the top of file IEEETran.cls in the IEEE LaTeX distribution.

## REFERENCES

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