

# Paper Title

Authors Name/s associated with 1st Affiliation

line 1: dept. name (if applicable)

line 2: name of organization, acronyms acceptable

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Authors Name/s associated with 2nd Affiliation

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**Abstract**—Please include a brief abstract here. The abstract should be limited to 50–200 words and should concisely state what was done, how it was done, principal results, and their significance.

## I. INTRODUCTION

This MS Word template, saved in a format that is fully compatible with “Word 97-2003” for the PC, provides authors with most of the formatting specifications (e.g. margins, column widths, line spacing, and text fonts) needed for preparing electronic versions of their papers. Please do not alter any of the formatting in this template when you prepare your paper.

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AP-S summary papers are limited to *two pages*. Any submitted paper that exceeds this limit will be rejected. The page format is two-column, as illustrated here. Do not add any kind of pagination anywhere in the paper. Do not manually number the headings – the template will do that for you.

Please take note of the following items when preparing your paper:

### A. Authors and Affiliations

The template is designed so that author affiliations are not repeated each time for multiple authors of the same affiliation. Please keep your affiliations as succinct as possible (for example, do not differentiate among departments of the same organization). This template was designed for two affiliations, but can be customized for fewer or more as described below.

1) *For author/s of only one affiliation:* Adjust the template as described below.

a) Highlight all author and affiliation lines.

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e) Place your cursor to the right of the last character of the last affiliation line of an even numbered affiliation (e.g., if there are five affiliations, place your cursor at end of fourth affiliation). Drag the cursor up to highlight all of the above author and affiliation lines. Go to Column icon and select “2 Columns”. If you have an odd number of affiliations, the final affiliation will be centered on the page; all previous will be in two columns.

### B. Headings

Primary section headings within the paper are enumerated by Roman numerals and are centered above the text. Secondary section headings are enumerated by capital letters followed by periods (“A.”, “B.”, etc.) and are flush left above their sections. The first letter of each word is capitalized. Tertiary section headings are enumerated by Arabic numerals followed by a parenthesis. They are indented, run into the text in their sections, and are followed by a colon.

### C. Equations

All equations should be labeled in consecutive numerical order. Equation numbers, within parentheses, should be aligned on the right side of the column, as in (1), using a right tab stop. Punctuate equations with commas or periods when they are part of a sentence, as in

$$\alpha + \beta = \chi. \quad (1)$$

Note that the equation is centered using a center tab stop. Be sure that the symbols in your equation have been defined before or immediately following the equation. Use “(1)”, not “Eq. (1)” or “equation (1)”, except at the beginning of a sentence: “Equation (1) is . . .”

#### D. Figures and Tables

Place each figure and/or table within the width of a single column, as illustrated by Fig. 1 and Table I below. Large figures and tables may span across both columns. Figure captions should be below the figures; table headings should appear above the tables. Insert figures and tables after they are cited in the text.

We suggest that you use a text box to insert a graphic (which is ideally a 300 dpi TIFF or EPS file, with all fonts embedded) because this method is less likely to disrupt the formatting.

This textbox has a visible outline for illustrative purposes only. Most figures will look best with the “no color” option selected for the outline of the textbox.

Figure 1. Example of a figure caption.

TABLE I. EXAMPLE OF A TABLE CAPTION.

Table Head	Table Column Head		
	Table column subhead	Subhead	Subhead
copy	More table copy <sup>a</sup>		

A sample of a Table footnote.

#### E. Abbreviations and Acronyms

Define abbreviations and acronyms the first time they are used in the text, even after they have been defined in the abstract.

#### F. Units and Numbers

The International System of Units (SI units) is advocated for use in IEEE publications. Unit symbols should be used with measured quantities, i.e., 1 mm, but not when unit names are used in text without quantities, i.e., “a few millimeters.” Use a zero before decimal points: “0.25”, not “.25”.

#### G. References

All references should be labeled in consecutive numerical order [1]-[3]. When citing references within the text, refer simply to the reference number enclosed by square brackets, as in [1]. Do not use “Ref. [1]” or “reference [1]” except at the beginning of a sentence: “Reference [1] was the first...”

A numbered list of references must be provided at the end of the paper. The list should be arranged in the order of citation in text, not in alphabetical order. Each reference should be given a unique reference number. Include all authors' names on a paper in the reference list; do not use “et al.”. Papers that have not been published, even if they have been submitted for publication, should be cited as “unpublished” [3]. Papers that have been accepted for publication should be cited as “in press”. Capitalize only the first word in a paper title, except for proper nouns and element symbols.

#### ACKNOWLEDGEMENT

An acknowledgement statement, if applicable, goes here.

#### REFERENCES

- [1] G. Eason, B. Noble, and I. N. Sneddon, “On certain integrals of Lipschitz-Hankel type involving products of Bessel functions,” *Phil. Trans. Roy. Soc. London*, vol. A247, pp. 529–551, April 1955.
- [2] J. Clerk Maxwell, *A Treatise on Electricity and Magnetism*, 3rd ed., vol. 2. Oxford: Clarendon, 1892, pp.68–73.
- [3] J. Doe, “Title of paper if known,” unpublished.