# A MOHONK WASPAA PAPER TEMPLATE

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## ABSTRACT

This is the LaTeX template file for the Proceedings of the 2007 IEEE Workshop on Applications of Signal Processing to Audio and Acoustics. The workshop will be held at Mohonk Mountain House, October 21-24, 2007. This template has been adapted from the WASPAA'05 template with the goal of producing workshop proceedings in electronic form. The form is very similar to the one used for the WASPAA'05 workshop. Please use either this Microsoft Word template or the accompanying LaTeX format template when preparing your submission. All questions concerning WASPAA'07 submission should be addressed to the publications chairs. The templates are available from the workshop website, http://www.kecl.ntt.co.jp/icl/signal/waspaa2007.

## 1. INTRODUCTION

In the following, some guidelines on how to prepare a paper are given. All manuscripts must be in English and must be no longer than four pages. They may be shorter. All manuscripts must be formatted for white US Letter paper (8.5 x 11 inches). Please do not format for A4-size paper. Authors should submit files that will be processed exactly as received, without any additional formatting or scaling required. To achieve the best viewing experience for the CD-ROM proceedings, please use the Times-Roman font (the LaTeX style file as well as the Word template files use Times-Roman). This will give the proceedings a more uniform look. The paper must be submitted as a Postscript or PDF document. When preparing PDF documents (particularly when using Acrobat Distiller), please read the PDF specification for IEEE Xplore [1].

Also note that all PDF documents must be text-searchable. When preparing your submission, it is imperative that you include all of your fonts as Type 1 or TrueType scalable fonts. This is particularly a problem for authors preparing LaTeX documents. Since the use of Times-Roman font is required, usually only equations (which use Computer Modern fonts) will be included as Type 3 bitmap fonts. To prevent this, please use the Postscript versions of the Computer Modern and AMS Math fonts, available from the AMS website [2]. You can use Acrobat Reader to determine if a PDF file has any Type 3 fonts by selecting *File... Document Properties... Fonts*. This paper kit also contains configuration files for Adobe Distiller version 4, 5, and 6 that produce IEEE-conform PDF documents.

If you do not use Adobe Acrobat, please consider consulting [3] for an excellent guide on how to create high-quality PDF documents for publishing using open-source tools.

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Your paper should obey the following format guidelines. The text should appear in single-spaced, two column paragraphs. No smaller than nine-point type font throughout the paper should be used, including figure captions. Note that in nine- point type font, capital letters are 2 mm high.

The following numbers denote the required dimensions of the paper. All text and figures must be contained in a 175 mm x 226 mm (6.9 inch x 8.9 inch) image area (not including headers and footers given in the template files). The inside margin (two-sided printing) must be 22 mm (.85 inches). The outside margin must be 19 mm (.75 inches). The top margin must be 25 mm (1.0 inch). Each column must be 83 mm wide, and the columns must be separated by 8 mm. Center each page within this image area in a two-column format. On the first page, the top 50 mm (2") of both columns is reserved for the title, author(s), and affiliation(s). These items should be centered across both columns, starting at 25 mm (1") from the top of the paper. The abstract should appear at the top of the left-hand column of text, about 12 mm (1/2") below the title area and no more than 80 mm (3-1/8") in length. On the second and subsequent pages, text or figures begin at the top of the page.

Please do not change the headers and footers or add page numbers. Page numbers and copyright information will be added electronically for the proceedings.

## 2. FIGURES, FORMULAS, AND CITATIONS

This section gives some advice on how to include figures and formulas in your manuscript. The proper use of citations is also illustrated.

### 2.1. Figures

All figures should be centered on the column (or page, if the figure spans both columns). Position the figures on top of the columns (or page), if possible. All half-tone illustrations must be clear black and white prints. Figure captions should follow each figure and have the format as shown in Fig. 1. All figures should be centered on the column (or page, if the figure spans both columns). Figure captions should follow each figure and have the format given below.

### 2.2. Equations

Equations should be placed on separate lines and numbered. For example, the homogeneous acoustic wave equation in Cartesian

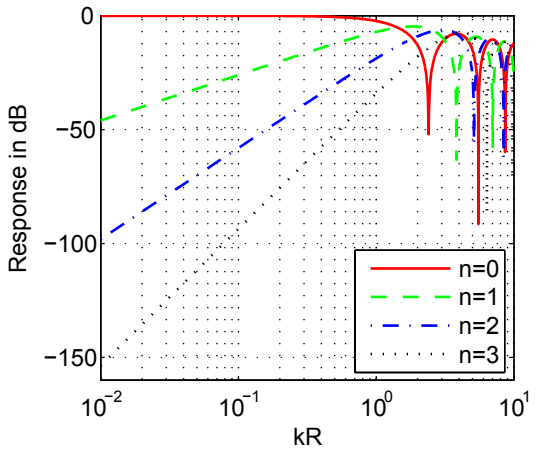



Figure 1: *Some scientific figure*

coordinates reads [4],

$$\Delta^2 p(x,y,z,t) - \frac{1}{c^2}\frac{\partial^2 p(x,y,z,t)}{\partial t^2} = 0, \qquad (1)$$

where $p(x,y,z,t)$ is an infinitesimal variation of acoustic pressure from its equilibrium value, and where $c$ denotes the speed of sound. A steady-state solution of (1), a plane wave at frequency $\omega_0$, can be written as

$$p(x,y,z,t) = A\, e^{j(k_x x + k_y y + k_z z - \omega_0 t)}, \qquad (2)$$

where A is an arbitrary constant and where $k_x, k_y$ and $k_z$ is the wavenumber in the $x$-, $y$-, and $z$-direction, respectively.

### 2.3. References

The references should be numbered in order of appearance [5], [6]. The reference format is the standard IEEE bibliography style. For LaTeX documents, the use of the BibTeX style file IEEEtran.bst is recommended, which is included in the LaTeX paper kit available from the workshop website.

## 3. CONCLUSIONS

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This template can be downloaded from the workshop website [7].

## 4. REFERENCES

[1] http://www.ieee.org/portal/pages/pubs/confstandards/pdfs.html.

[2] http://www.ams.org/tex/type1-fonts.html.

[3] http://mpa.itc.it/markus/highres_pdf.html.

[4] E. Williams, *Fourier Acoustics: Sound Radiation and Nearfield Acoustic Holography*. London: Academic Press, 1999.

[5] J. Allen and D. Berkley, "Image method for efficiently simulating small-room acoustics," *J. Acoust. Soc. Am*, vol. 65, no. 4, pp. 943–948, Apr. 1979.

[6] T. Painter and A. Spanias, "Perceptual coding of digital audio," *Proc. IEEE*, vol. 80, no. 4, pp. 451–513, Apr. 2000.

[7] http://www.kecl.ntt.co.jp/icl/signal/waspaa2007.