Paper Template for INTERSPEECH 2015

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Abstract

This is the layout specification and template definition for the INTERSPEECH 2015 Conference, which will be held in Dresden, Germany, September 6–10, 2015. This template has been generated from previous INTERSPEECH templates. The format is essentially the one used for IEEE ICASSP conferences. The maximum number of pages is 5. The 5th page may be used exclusively for references. Index terms should be included as shown below.

Index Terms: speech recognition, human-computer interaction, computational paralinguistics

1. Introduction

This template can be found on the conference website. Templates are provided for LibreOffice, Microsoft Word®, and LaTeX. However, we highly recommend using LaTeX when preparing your submission. Information for full paper submission is available on the conference website.

2. Page layout and style

Authors should observe the following rules for page layout. A highly recommended way to meet these requirements is to use a given template (LibreOffice, Microsoft Word® or LaTeX) and check details against the corresponding example PDF file.

2.1. Basic layout features

- Proceedings will be printed in DIN A4 format. Authors must submit their papers in DIN A4 format .
- Two columns are used except for the title part and possibly for large figures that need a full page width.
- Left and right margin are 20 mm each.
- Column width is 80 mm.
- Spacing between columns is 10 mm.
- Top margin 25 mm (except for the first page which is 30 mm to the title top).
- Bottom margin is 35 mm.
- Text height (without headers and footers) is maximum 235 mm.
- Headers and footers must be left empty. They will be added for printing and the INTERSPEECH 2015 media.
- Check indentations and spacings by comparing to this example file (in PDF).

2.1.1. Headings

Section headings are centered in boldface with the first word capitalized and the rest of the heading in lower case. Sub-headings appear like major headings, except they start at the left margin in the column. Sub-sub-headings appear like sub-headings, except they are in italics and not boldface. See the examples in this file. No more than 3 levels of headings should be used.

2.2. Text font

Times or Times Roman font is used for the main text. Font size in the main text must be 9 points, and in the References section 8 points. Other font types may be used if needed for special purposes. It is VERY IMPORTANT that while making the final PDF file, you embed all used fonts!

LaTeX users: users should use Adobe Type 1 fonts such as Times or Times Roman. These are used automatically by the INTERSPEECH2015.sty style file. Authors must not use Type 3 (bitmap) fonts.

Libre Office users: please make sure that the Times New Roman true type font is available on your system. On most Linux systems it is not installed by default and will be substituted by any other available font. Please check the final pdf which fonts are actually embedded.

2.3. Figures

All figures must be centered on the column (or page, if the figure spans both columns). Figure captions should follow each figure and have the format given in Figure 1.

Figures should preferably be line drawings. If they contain gray levels or colors, they should be checked to print well on a high-quality non-color laser printer.

Graphics (i. e., illustrations, figures) must not use stipple fill patterns because they will not reproduce properly in Adobe PDF. Please use only SOLID FILL COLORS.

Figures which span 2 columns (i. e., occupy full page width) should be placed at the top or bottom of the page.

2.4. Tables

An example of a table is shown as Table 1. The caption text may be above or below the table.

Table 1. *This is an example of a table.*

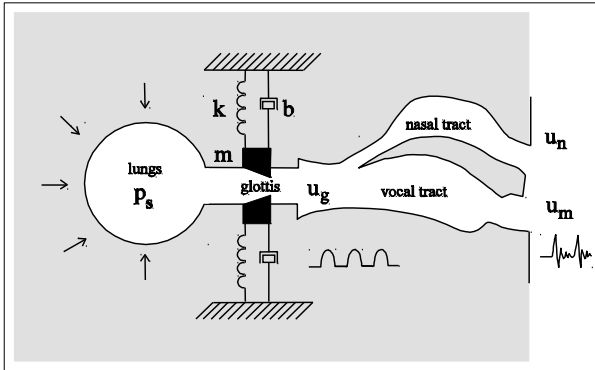| Ratio	Decibels
1/1	0
2/1	≈ 6
3.16	10
1/10	20
10/1	-20
100/1	40
1000/1	60

Figure 1: *Schematic diagram of speech production.*

2.5. Equations

Equations should be placed on separate lines and numbered. Examples of equations are given below. Particularly,

$$x(t) = s(f_\omega(t)) \tag{1}$$

where $f_\omega(t)$ is a special warping function

$$f_\omega(t) = \frac{1}{2\pi j} \oint_C \frac{v^{-1}\,dv}{(1-\beta v^{-1})(v^{-1}-\beta)} \tag{2}$$

A residue theorem states that

$$\oint_C F(z)\,dz = 2\pi j \sum_k \text{Re} \; s[F(z), p_k] \tag{3}$$

Applying (3) to (1), it is quite straightforward to see that

$$1 + 1 \;=\; \pi \tag{4}$$

Finally we have proven the secret theorem of all speech sciences. No more math is needed to show how useful the result is!

2.6. Hyperlinks

For technical reasons, the proceedings editor will strip all active links from the papers during processing. Hyperlinks can be included in your paper, if written in full, e.g. "http://www.foo.com/index.html". The link text must be all black. Please make sure that they present no problems in printing to paper.

2.7. Multimedia Files

The INTERSPEECH 2015 organizing committee offers the possibility to submit multimedia files. These files are meant for audio-visual illustrations that cannot be conveyed in text, tables and graphs. Just like you would when including graphics, make sure that you have sufficient author rights to the multimedia materials that you submit for publication. The proceeding media will NOT contain readers or players, so be sure to use widely accepted file formats, such as MPEG, Windows WAVE PCM (.wav) or Windows Media Video (.wmv) using standard codecs. The files you submit will be accessible from the abstract cards on the media and via a bookmark in the manuscript. From within the manuscript, refer to a multimedia illustration by its filename. Use short file names without blanks.

2.8. Page Numbering

Page numbers will be added later to the document electronically. *Don't make any footers or headers!*

2.9. References

The reference format is the standard IEEE one. References should be numbered in order of appearance, for example [1], [2], [3, pp. 417–422], and [4].

2.10. Abstract

The total length of the abstract is limited to 200 words. The abstract included in your paper and the one you enter during web-based submission must be identical. Avoid non-ASCII characters or symbols as they may not display correctly in the abstract book.

2.11. Author affiliation

Please list country names as part of the affiliation for each country.

2.12. Submitted files

Authors are requested to submit PDF files of their manuscripts. You can use commercially available tools or for instance http://www.pdfforge.org/products/pdfcreator. The PDF file should comply with the following requirements: (a) there must be no PASSWORD protection on the PDF file at all; (b) all fonts must be embedded; and (c) the file must be text searchable (do CTRL-F and try to find a common word such as 'the'). The proceedings editors (Causal Productions) will contact authors of non-complying files to obtain a replacement. In order not to endanger the preparation of the proceedings, papers for which a replacement is not provided timely will be withdrawn.

3. Discussion

3.1. Libre Office vs. Open Office

OpenOffice, originally developed by Oracle, has been bought by Apache, and has been renamed *Apache Open Office*. *LibreOffice* is a fork from the original *Oracle OpenOffice*. So, nowadays, there are two supported versions: *Apache Open Office* and *LibreOffice*, but both use the open standard file format *.odt*, so this template should work on

most standard versions. However, we cannot guarantee that it will be exact on your own version. So please check in all cases manually that all guidelines are respected in your paper.

For information, this template has been designed with *LibreOffice* version 4.2.8.2 for Linux.

3.2. Recommendations

When writing your paper, try to avoid as much as possible directly modifying the text style on specific parts of your document with the buttons or menus "bold", "italic", "font", "font size", "justify"...

But rather prefer using the predefined styles:

- *Text Body* for the main text
- *Heading1* for a section's title
- *Heading2* for a subsection's title
- *Heading3* for a sub-subsection's title
- *Reference...*

This can be done easily on *LibreOffice* by selecting a line or a paragraph, and (eventually) using menu "Format / Clear Direct Formatting", which removes all direct text styles that may have been previously set on the selected text, and then menu "Format / Styles and formatting", which opens a window with all available styles from which you can choose.

4. Conclusions

Authors must proof read their PDF file prior to submission to ensure it is correct. Authors should not rely on proofreading the Word file. Please proofread the PDF file before it is submitted.

5. Acknowledgements

The ISCA Board would like to thank the organizing committees of the past INTERSPEECH conferences for their help and for kindly providing the template files.

6. References

[1] S. B. Davis and P. Mermelstein, "Comparison of parametric representation for monosyllabic word recognition in continuously spoken sentences," *IEEE Transactions on Acoustics, Speech and Signal Processing*, vol. 28, no. 4, pp. 357–366, 1980.

[2] L. R. Rabiner, "A tutorial on hidden Markov models and selected applications in speech recognition," *Proceedings of the IEEE*, vol. 77, no. 2, pp. 257–286, 1989.

[3] T. Hastie, R. Tibshirani, and J. Friedman, *The Elements of Statistical Learning – Data Mining, Interference, and Prediction*, New York: Springer, 2009.

[4] F. Lastname1, F. Lastname2, and F. Lastname3, "Title of your INTERSPEECH 2015 publication," in *INTERSPEECH 2015 – 16th Annual Conference of the International Speech Communication Association, September 6-10, Dresden, Germany, Proceedings*, 2015, pp. 100–104.