sEMG Signal Separation for Wrist Angle Estimation

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Abstract— This document gives formatting instructions for authors preparing extended abstracts in Microsoft Word for publication in the program and proceedings for ISSTT2015. The authors are asked to follow the instructions given in the document when preparing their abstracts to assist the Local Organizing Committee with the preparation of the conference program and proceedings and to allow efficient reviewing of submissions by the Scientific Organizing Committee. You can use this document as both an instruction set and as a template into which you can type or paste your own text.

1. Introduction

For this year’s International Symposium on Space Terahertz Technology, the organizing committee has decided to request extended abstracts from potential presenters that can be published as part of the conference proceedings in place of final papers submitted after the conference. This will allow a much more timely publication of the conference proceedings, and should make it easier for preliminary work presented at the conference to be completed and submitted to refereed journals as full publications following the conference.

Potential presenters that are seeking to give oral presentations should submit abstracts between 2 and 4 pages in length, while those that are requesting poster presentation only should submit abstracts between 1 and 4 pages in length.

Submitted extended abstracts will be reviewed by the Scientific Organizing Committee for scientific and technical content. Your extended abstract should include: A short abstract summarizing the work; an introduction describing the background and motivation for the work; a summary of the work (to be) carried out (e.g. experimental methods, theoretical technique, technical approach); A description of preliminary results and/or the results or technical progress you expect to report at the conference; and a discussion of future extensions of the work or anticipated conclusions to be drawn from the work. You may include relevant figures, tables and references using the instructions in this template.

This document is a template based on the IEEE template used for IEEE Transactions. This should make it relatively easy for extended abstracts submitted to be modified to form either a final ISSTT2015 proceedings paper, or a paper suitable for submission to an IEEE Transactions on Terahertz Science and Techniques special issue. An electronic copy of this template can be downloaded from the conference website www.cfa.harvard.edu/ISSTT2015. If you have questions, please contact the conference organizer at isstt2015LOC@cfa.harvard.edu

Finished papers should be submitted as PDF files by email to <insertAddress>.

1. Page Layout

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

1. Page Layout

The paper can be maximum ten pages in length.

Your paper must use a page size corresponding to the US Letter paper size, which is 216mm (8.5") wide and 279mm (11 ") long. The margins must be set as follows:

* Top = 18mm (0.7")
* Bottom = 18mm (0.7")
* Left = Right = 16.5mm (0.65")

Your paper must be in two column format with a column width of 90mm (3.55") and a space of 5mm (0.2") between columns.

Do not edit the header or footer of the document. Page numbers will be inserted later.

1. Page Style

All paragraphs must be indented. All paragraphs must be justified, i.e. both left-justified and right-justified.

1. Text Font of Entire Document

The entire document should be in Times New Roman or Times font. Type 3 fonts must not be used. Other font types may be used if needed for special purposes.

Recommended font sizes are shown in Table 1.

1. Title and Author Details

Title must be in 24 pt Regular font. Author name must be in 11 pt Regular font. Author affiliation must be in 10 pt Italic. Contact email address must be in 9 pt Courier Regular font.

TABLE I  
Font Sizes for Papers

|  |  |  |  |
| --- | --- | --- | --- |
| Font Size | Appearance (in Time New Roman or Times) | | |
| Regular | Bold | Italic |
| 8 | table caption (in Small Caps),  figure caption,  reference item |  | reference item (partial) |
| 9 | Contact author email address (in Courier), cell in a table | abstract body | abstract heading (also in Bold) |
| 10 | level-1 heading (in Small Caps),  paragraph |  | level-2 heading,  level-3 heading,  author affiliation |
| 11 | author name |  |  |
| 24 | title |  |  |

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

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”.

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).

To avoid confusion, the family name must be written as the last part of each author name (e.g. John A.K. Smith).

Each affiliation must include, at the very least, the name of the institute/university and the name of the country where the author is based (e.g. University of Tokyo, Japan).

Email address is compulsory for the corresponding author.

1. 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. For example, see heading “III. Page Style” of this document. The two level-1 headings which must not be numbered are “Acknowledgment” and “References”.
2. Level-2 Heading: A level-2 heading must be in Italic, left-justified and numbered using an uppercase alphabetic letter followed by a period. For example, see heading “C. Section Headings” above.
3. Level-3 Heading: A level-3 heading must be indented, in Italic and numbered with an Arabic numeral followed by a right parenthesis. The level-3 heading must end with a colon. The body of the level-3 section immediately follows the level-3 heading in the same paragraph. For example, this paragraph begins with a level-3 heading.
4. Figures and Tables

Figures and tables must be centered in the column. Large figures and tables may span across both columns. Any table or figure that takes up more than 1 column width must be positioned either at the top or at the bottom of the page.

Graphics may be full color. All colors will be retained in the online proceedings but will be gray scale in the printed proceedings. Graphics must not use stipple fill patterns because they may not be reproduced properly. Please use only *SOLID FILL* colors which contrast well both on screen and on a black-and-white hardcopy, as shown in Fig. 1.



Fig. 1 A sample line graph using colors which contrast well both on screen and on a black-and-white hardcopy

Fig. 2 shows an example of a low-resolution image which would not be acceptable, whereas Fig. 3 shows an example of an image with adequate resolution. Check that the resolution is adequate to reveal the important detail in the figure.

Please 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, please 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.
* That each figure is centred.

1. Figure Captions

Figures must be numbered using Arabic numerals. Figure captions must be in 8 pt Regular font. Captions of a single line (e.g. Fig. 2) must be centered whereas multi-line captions must be justified (e.g. Fig. 1). Captions with figure numbers must be placed after their associated figures, as shown in Fig. 1.



Fig. 2 Example of an unacceptable low-resolution image



Fig. 3 Example of an image with acceptable resolution

1. Table Captions

Tables must be numbered using uppercase Roman numerals. Table captions must be centred and in 8 pt Regular font with Small Caps. Every word in a table caption must be capitalized except for short minor words as listed in Section III-B. Captions with table numbers must be placed before their associated tables, as shown in Table 1.

1. Page Numbers, Headers and Footers

Page numbers and footers must not be used. Please leave the header unchanged.

1. Links and Bookmarks

All hypertext links and section bookmarks will be removed from papers during the processing of papers for publication. If you need to refer to an Internet email address or URL in your paper, you must type out the address or URL fully in Regular font.

1. References

The heading of the References section must not be numbered. All reference items must be in 8 pt font. Please use Regular and Italic styles to distinguish different fields as shown in the References section. Number the reference items consecutively in square brackets (e.g. [1]).

When referring to a reference item, please 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]

1. Conclusions

This template is partly based on the template used for the 19th ISSTT (Groningen, 2008) and the 21st ISSTT (Oxford, 2010), which was in turn based on “Sample IEEE Paper for A4 Page Size” provided by courtesy of Causal Productions (www.causalproductions.com).

Acknowledgment

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

References

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