

# iPlant: Electronic Plant System

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## ABSTRACT

In this paper we describe the formatting requirements for the UbiComp 2012 Conference Proceedings, and offer recommendations on writing for the worldwide Ubiquitous Computing readership. Please review this document even if you have submitted to Ubiquitous Computing conferences before, for some format details have changed relative to previous years. These include the formatting of table captions, the formatting of references, a requirement to include ACM DL indexing information, and guidelines for how to handle relevant references to your own work while preparing your submission for blind review.

## Author Keywords

Intelligent Plant System, Pervasive Computing, Home Automatic Monitoring

## ACM Classification Keywords

H.5.2 Information interfaces and presentation (e.g., HCI): Miscellaneous.

## General Terms

This section is limited to the following 16 terms and **MUST** be included on the first page of all submissions after the ACM Categories section, then as well chosen properly on the Proceedings or Publication's submission page: Algorithms, Design, Documentation, Economics, Experimentation, Human Factors, Languages, Legal Aspects, Management, Measurement, Performance, Reliability, Security, Standardization, Theory, Verification.

## INTRODUCTION

This format is to be used for submissions that are published in the conference proceedings. We wish to give this volume a consistent, high-quality appearance. We therefore ask that authors follow some simple guidelines. In essence, you should format your paper exactly like this document. The easiest way to do this is simply to download a template from the conference web site, and replace the content with your own material.

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## PAGE SIZE AND COLUMNS

On each page your material (not including the page number) should fit within a rectangle of 18 x 23.5 cm (7 x 9.25 in.), centered on a US letter page, beginning 1.9 cm (.75 in.) from the top of the page, with a .85 cm (.33 in.) space between two 8.4 cm (3.3 in.) columns. On an A4 page, use a text area of the same dimensions (18 x 23.5 cm.), again centered. Right margins should be justified, not ragged.

## TYPESET TEXT

Prepare your submissions on a word processor or typesetter. Please note that page layout may change slightly depending upon the printer you have specified. For this document, printing to Adobe Acrobat PDF Writer was specified. In the resulting page layout, Figure 1 appears at the top of the left column on page 2, and Table 1 appears at the top of the right column on page 2. You may need to reposition the figures if your page layout or PDF-generation software is different.

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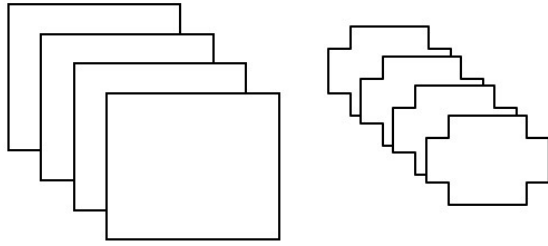
Your paper's title, authors and affiliations should run across the full width of the page in a single column 17.8 cm (7 in.) wide. The title should be in Helvetica 18-point bold; use Arial if Helvetica is not available. Authors' names should be in Times Roman 12-point bold, and affiliations in Times Roman 12-point (note that Author and Affiliation are defined Styles in this template file).

To position names and addresses, use a single-row table with invisible borders, as in this document. Alternatively, if only one address is needed, use a centered tab stop to center all name and address text on the page; for two addresses, use two centered tab stops, and so on. For more than three authors, you may have to place some address information in a footnote, or in a named section at the end of your paper. Please use full international addresses. Leave one 10-pt line of white space below the last line of affiliations.

## Abstract and Keywords

Every submission should begin with an abstract of **no more than 150 words**, followed by a set of keywords. The abstract and keywords should be placed in the left column of the first page under the left half of the title. The abstract should be a concise statement of the problem, approach and conclusions of the work described. It should clearly state the paper's contribution to the field of Ubiquitous Computing.

The first set of keywords will be used to index the paper in



**Figure 1.** Figure captions should be centered and placed below the figure.

the proceedings. The second set are entries from the ACM Classification System (<http://www.acm.org/class/1998/>), and used to catalogue the paper in the ACM Digital Library.

### Normal or Body Text

Please use a 10-point Times Roman font or, if this is unavailable, another proportional font with serifs, as close as possible in appearance to Times Roman 10-point. The Press 10-point font available to users of Script is a good substitute for Times Roman. If Times Roman is not available, try the font named Computer Modern Roman. On a Macintosh, use the font named Times and not Times New Roman. Please use sans-serif or non-proportional fonts only for special purposes, such as headings or source code text.

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Use a numbered list of references at the end of the article, ordered alphabetically by first author, and referenced by numbers in brackets, e.g. “[2,4,5,7]”. For papers from conference proceedings, include the title of the paper and an abbreviated name of the conference (e.g., for UbiComp 2008 proceedings, use Proc. UbiComp 2008). Do not include the location of the conference or the exact date; do include the page numbers if available. See the examples of citations at the end of this document.

Your references should be published materials accessible to the public. Internal technical reports may be cited only if they are easily accessible (i.e., you provide the address for obtaining the report within your citation) and may be obtained by any reader for a nominal fee. Proprietary informa-

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The heading of a section should be in Helvetica 9-point bold, all in capitals. Use Arial if Helvetica is not available. Sections should not be numbered.

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Place figures and tables at the top or bottom of the appropriate column or columns, on the same page as the relevant text (see Figure 1). A figure or table may extend across both columns to a maximum width of 17.78 cm (7 in.).

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You may provide up to two supporting audio or video files for your Full Paper or Note. However, the paper should stand on its own without this material, as it may not be available to everyone who reads the paper. Please note that your **total submission size cannot exceed 10.0 MB** (including your submission document and any additional material).

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### Table Style

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### LANGUAGE, STYLE AND CONTEXT

The written and spoken language of the UbiComp conference is English. Spelling and punctuation may use any dialect of English (e.g., British, Canadian, US, etc.) provided this is done consistently. Hyphenation is optional. To ensure suitability for an international audience, please pay attention to the following:

Objects	Caption pre-2002	Caption since 2003
Tables	Above	Below
Figures	Below	Below

**Table 1.** Table captions should be placed below the table.

- Write in a straightforward style.
- Try to avoid long or complex sentence structures.
- Briefly define or explain all technical terms that may be unfamiliar to readers.
- Explain all acronyms the first time they are used in your text e.g., “Digital Signal Processing (DSP)”.
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- Explain “insider” comments. Ensure that your whole audience understands any reference whose meaning you do not describe (e.g., do not assume that everyone has used a particular device or application).
- Explain colloquial language and puns. Understanding phrases like “red herring” may require a local knowledge of English. Humor and irony are difficult to translate.
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#### **BLIND REVIEW**

For archival submissions, UbiComp requires a “blind review.” To prepare your submission for blind review, remove author and institutional identities in the title and header areas of the paper. You may also need to remove part or all of the Acknowledgments text. Authors should take care throughout their paper that their and their institution’s identity is not revealed. However **relevant references to the author’s previous research should not be suppressed** as they may be required for reviewers to understand and evaluate the paper’s contribution. For more details, see the submission guidelines and checklist for your submission category.

#### **CONCLUSION**

It is important that you write for the UbiComp audience. Please read previous years’ Proceedings to understand the writing style and conventions that successful authors have used. It is particularly important that you state clearly what you have done, not merely what you plan to do, and explain how your work is different from previously published work, i.e., what is the unique contribution that your work makes to the field? Please consider what the reader will learn from your submission, and how they will find your work useful. If you write with these questions in mind, your work is more likely to be successful, both in being accepted into the Conference, and in influencing the work of our field.

#### **ACKNOWLEDGEMENTS**

We thank CHI, PDC and CSCW volunteers, and all publications support and staff, who wrote the original version of this document that we modified. Some of the references cited are included for illustrative purposes only.