

Update to ACM Documentation

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This document describes updates to ACM files made in Spring 2013 according to the new specifications for ACM conferences and journals.

1. INTRODUCTION

The classic documentation [Knuth and Lamport 2010] describes the submission of articles for ACM conferences and journals. This documentation is still mostly valid. However, there were two important changes in the submission: the new CCS categories and the new copyright journal data/commands for the authors. Accordingly ACM decided to provide an update to the documentation—this document.

In both cases the new ACM submission programs generate L^AT_EX code for you. Your task is to insert the generated code into your manuscript, anywhere between `\begin{document}` and `\maketitle` commands.

2. CCS CATEGORIES

ACM publications are classified according to the ACM Computing Classification Scheme (CCS). CCS codes are used both in the typeset version of the publications *and* in the metadata in the various databases. Therefore you need to provide both T_EX commands and XML metadata with the paper.

The tool at <http://dl.acm.org/ccs.cfm> can be used to generate CCS codes. After you select the topics, click on “Generate CCS codes” to get the result like the following:

```
\begin{CCSXML}
<ccs2012>
  <concept>
    <concept_id>10010520.10010553.10010562</concept_id>
    <concept_desc>Computer systems organization~Embedded systems</concept_desc>
    <concept_significance>500</concept_significance>
  </concept>
  <concept>
    <concept_id>10010520.10010575.10010755</concept_id>
    <concept_desc>Computer systems organization~Redundancy</concept_desc>
    <concept_significance>300</concept_significance>
  </concept>
  <concept>
    <concept_id>10010520.10010553.10010554</concept_id>
    <concept_desc>Computer systems organization~Robotics</concept_desc>
    <concept_significance>100</concept_significance>
  </concept>
</concept>
```

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DOI: <http://dx.doi.org/10.1145/0000000.0000000>

Table I. Parameters for `\setcopyright` Command

Parameter	Meaning
<code>none</code>	The copyright and permission information is not typeset (this is the option for some ACM conferences).
<code>acmcopyright</code>	The authors transfer the copyright to ACM (the “traditional” choice).
<code>acmlicensed</code>	The authors retain the copyright but license the publication rights to ACM.
<code>rightsretained</code>	The authors retain the copyright and publication rights to themselves or somebody else.
<code>usgov</code>	All the authors are employees of the US Government.
<code>usgovmixed</code>	Some authors are employees of the US Government.
<code>cagov</code>	All the authors are employees of the Canadian Government.
<code>cagovmixed</code>	Some authors are employees of the Canadian Government.

```

<concept_id>10003033.10003083.10003095</concept_id>
<concept_desc>Networks~Network reliability</concept_desc>
<concept_significance>100</concept_significance>
</concept>
</ccs2012>
\end{CCSXML}

```

```

\ccsdesc[500]{Computer systems organization~Embedded systems}
\ccsdesc[300]{Computer systems organization~Redundancy}
\ccsdesc{Computer systems organization~Robotics}
\ccsdesc[100]{Networks~Network reliability}

```

For *papers* just copy this code and paste it in your paper anywhere before `\maketitle`. For *proceedings* the CCS categories are not printed by default; to make them printed add after the code above the command `\printccsdesc`.

3. COPYRIGHT AND OTHER INFORMATION

There are several possibilities for the copyright of the papers published by ACM: the authors may transfer the rights to ACM, license them to ACM, some or all authors might be employees of the US or Canada Government, etc. Accordingly the new command `\setcopyright{...}` is introduced. Its argument is the copyright status of the paper, for example, `\setcopyright{acmcopyright}`. The possible values for this command are listed in Table I.

The ACM submission software should generate the right command for you to paste into your file.

There are several other commands generated by the software. Below we describe them.

Each paper in ACM journals and proceedings must have a DOI number. It is set up by the command `\doi`, for example,

```
\doi{http://dx.doi.org/10.1145/0000000.0000000}
```

Each ACM journal has an ISSN number, which is set by the command `\issn`, for example,

```
\issn{0004-5411}
```

The commands `\acmVolume`, `\acmNumber`, `\acmArticle`, `\acmYear` set up the information about the volume, issue, article number and year of publication. As a rule they are inserted by the publisher on the final stages of preparation.

For proceedings you need to insert ISBN, the conference name, date and location. They are set by the commands `\isbn` and `\conferenceinfo` correspondingly, for example,

```
\isbn{978-1450317412}
\conferenceinfo{AOSD'12}{Hasso-Plattner Institut Potsdam, Germany,
March 25--30, 2012}
```

These commands are also provided by the ACM software; you need just to insert them into the manuscript before `\maketitle`.

4. OTHER CHANGES

The command `\terms` is obsolete; we no longer use “General Terms” line in the articles and conference proceedings.

REFERENCES

Donald E. Knuth and Leslie Lamport. 2010. Author Submission Guide. *Comput. Surveys* 2, 3 (July 2010), 1–15. (Included in ACM Documentation).