

Making ACM L^AT_EX styles

Boris Veytsman, George Mason University, USA

TUG'2016

ACM



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Computing Machinery

Advancing Computing as a Science & Profession

The biggest publisher in computing: 50+ journals, hundreds of conferences. . .

Early adopters of T_EX.

The code tends to contain too much copy and paste. . .

1. acm_proc_article-sp.cls
2. acmlarge.cls
3. acmsiggraph.cls
4. acmsmall-ec13.cls
5. acmsmall.cls
6. acmtog.cls
7. acmtrans2m.cls
8. sig-alternate-05-2015.cls
9. sig-alternate.cls
10. sigchi-ext.cls
11. sigchi.cls
12. sigplanconf.cls

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- | | |
|----------------------------|------------------------------|
| 1. acm_proc_article-sp.cls | 7. acmtrans2m.cls |
| 2. acmlarge.cls | 8. sig-alternate-05-2015.cls |
| 3. acmsiggraph.cls | 9. sig-alternate.cls |
| 4. acmsmall-ec13.cls | 10. sigchi-ext.cls |
| 5. acmsmall.cls | 11. sigchi.cls |
| 6. acmtog.cls | 12. sigplanconf.cls |

BibT_EX files:

- | | |
|--------------------------------------|------------------|
| 1. ACM-Reference-Format-Journals.bst | 5. acm-alpha.bst |
| 2. SIGCHI-Reference-Format.bst | 6. acm-plain.bst |
| 3. acmsiggraph.bst | 7. acm-unsrt.bst |
| 4. acm-abbrev.bst | |

The code is *almost* identical. . .

The code tends to rot. . .

From the letter by a T_EXexpert¹

. . . 3 packages copied in with a comment (good!) that they are needed but without taking out `\endinput` that was in the code from the package copied in (bad :-) so after the first nothing else is ever used

¹Name withheld by request

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. . . looks worse than your average Word document

¹Name withheld by request

Example

```
\DeclareOption{acmtopc}{
  \typeout{}
  \typeout{Using ACM, TOPC's option: 2013/01/18 by ██████████}
  \typeout{}
  \global\@acmtopctrue
  \global\@acmjacmfalse
  \global\@acmtissecfalse
  \global\@acmtoclfalse
  \global\@acmtocsfalse
  \global\@acmtochifalse
  \global\@acmtodaesfalse
  34 lines deleted
  \def\@journalName{ACM Transactions on Parallel Computing}
  \def\@journalNameShort{ACM Trans. Parallel Comput.}
  \def\@journalCode{topc}
  \def\@permissionCodeOne{1539-9087}
}
```

```
\DeclareOption{acmjacm}{
  \typeout{}
  \typeout{Using ACM, JACM's option: 2010/05/04 by ██████████}
  \typeout{}
  \global\@acmjacmtrue
  \global\@acmtissecfalse
  \global\@acmtoclfalse
  \global\@acmtocsfalse
  \global\@acmtochifalse
  \global\@acmtodaesfalse
  34 lines deleted
  \def\@journalName{Journal of the ACM}
  \def\@journalNameShort{J. ACM}
  \def\@journalCode{jacm}
  \def\@permissionCodeOne{0004-5411}
}
```

My role

I consulted ACM since 2011:

1. BibT_EX updates
2. “Concepts system” (enhanced keywords)
3. New boilerplate copyright

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1. BibT_EX updates
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3. New boilerplate copyright

Problems:

1. How do you support and add new features to a dozen of *slightly* different styles?
2. If my name appears in the code (many times!), should I be responsible for the mess?

Solution

Full refactoring.

Fortunately, ACM wanted new design of all templates: new fonts, new sizes etc.

Solution

Full refactoring.

Fortunately, ACM wanted new design of all templates: new fonts, new sizes etc.

1. ACM senior editorial staff: typographic design
2. Aptara: typesetting process
3. Yours truly: \LaTeX code.

Principles for new T_EX code

No more forking! One code for all

≈ နှစ်သုံးဆယ့်တစ်ရာနှစ်နှင့်. နှစ်သုံးဆယ့်နှစ်နှင့်
နှစ်သုံးဆယ့်နှစ်နှင့်. ဆယ့်နှစ်နှစ်နှင့်

Same interface for all outputs

You should be able to change

```
\documentclass[acmsmall]{acmart}
```

to

```
\documentclass[sigconf]{acmart}
```

and everything “just works”...

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You should be able to change

```
\documentclass[acmsmall]{acmart}
```

to

```
\documentclass[sigconf]{acmart}
```

and everything “just works”...

Important consequence: one Bib style.

As much standard \LaTeX and $\text{AMS}\text{\LaTeX}$ as possible

Exception: authors' information.

As much standard \LaTeX and $\text{AMS}\text{\LaTeX}$ as possible

Exception: authors' information.

Structured commands

\TeX file is to be analyzed to extract information for metadata.

As much standard \LaTeX and $\AMS\LaTeX$ as possible

Exception: authors' information.

Structured commands

\TeX file is to be analyzed to extract information for metadata.

The work is supported by the `\grantsponsor{GS501100001809}{National Natural Science Foundation of China}{http://dx.doi.org/10.13039/501100001809}` under Grant No.: `~\grantnum{GS501100001809}{61273304}`.

Some features of the new class

Variations as options

```
\documentclass[acmsmall]{acmart}  
\documentclass[sigchi]{acmart}  
\documentclass[manuscript]{acmart}
```

Some features of the new class

Variations as options

```
\documentclass[acmsmall]{acmart}  
\documentclass[sigchi]{acmart}  
\documentclass[manuscript]{acmart}
```

Some additional options

review: lines are numbered

anonymous: authors' names, addresses and acknowledgements are suppressed.

screen: online version

Authors and addresses

```
\author{Ben Trovato}
\authornote{Dr.~Trovato insisted his name be first.}
\orcid{1234-5678-9012}
\email{trovato@corporation.com}
\author{A. U. Thor}
\email{author@corporation.com}
\affiliation{%
  \institution{Institute for Clarity in Documentation}
  \streetaddress{P.O. Box 1212}
  \city{Dublin}
  \state{Ohio}
  \postcode{43017-6221}}
```

Some other bells and whistles

Copyright system

```
\setcopyright{acmcopyright}  
%\setcopyright{acmlicensed}  
%\setcopyright{rightsretained}  
%\setcopyright{usgov}  
%\setcopyright{usgovmixed}  
%\setcopyright{cagov}  
%\setcopyright{cagovmixed}
```

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```
\setcopyright{acmcopyright}  
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%\setcopyright{rightsretained}  
%\setcopyright{usgov}  
%\setcopyright{usgovmixed}  
%\setcopyright{cagov}  
%\setcopyright{cagovmixed}
```

CCS system

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

Conditional typesetting

```
\begin{printonly}
```

```
  See the supplementary materials in the online version
```

```
\end{printonly}
```

```
\begin{screenonly}
```

```
\begin{table}
```

```
...
```

```
\end{table}
```

```
\end{screenonly}
```

Conditional typesetting

```
\begin{printonly}
  See the supplementary materials in the online version
\end{printonly}
```

```
\begin{screenonly}
\begin{table}
...
\end{table}
\end{screenonly}
```

Additional floats

teaserfigure: a special non-float in the frontmatter

marginfigure, margintable, sidebar: marginalia (mostly for SIGCHI extended abstracts)

Organization

Code repository at <https://github.com/borisveytsman/acmart/>.

Github gives a number of nice features:

1. Bug tracking
2. Mechanism for contributions
3. Nice version control

Samples

acmsmall

A Multifrequency MAC Specially Designed for Wireless Sensor Network Applications

GANG ZHOU, College of William and Mary
YAFENG WU, University of Virginia
TING YAN, Eaton Innovation Center
TIAN HE, University of Minnesota
CHENGDU HUANG, JOHN A. STANKOVIC, and TAREK F. ABDELZAHER, University of Virginia

Multifrequency media access control has been well understood in general wireless ad hoc networks, while in wireless sensor networks, researchers still focus on single frequency solutions. In wireless sensor networks, each device is typically equipped with a single radio transmitter and applications adopt much smaller packet sizes compared to those in general wireless ad hoc networks. Hence, the multifrequency MAC protocols proposed for general wireless ad hoc networks are not suitable for wireless sensor network applications, which we further demonstrate through our simulation experiments. In this article, we propose MMSN, which takes advantage of multifrequency availability while, at the same time, takes into consideration the restrictions of wireless sensor networks. Through extensive experiments, MMSN exhibits the prominent ability to utilize parallel transmissions among neighboring nodes.

CCS Concepts: **Computer systems organization** → **Embedded systems; Robotics; Networks** → **Network reliability;**

Additional Key Words and Phrases: Wireless sensor networks, media access control, multi-channel, radio interference, time synchronization

ACM Reference format:

Gang Zhou, Yafeng Wu, Ting Yan, Tian He, Chengdu Huang, John A. Stankovic, and Tarek F. Abdelzaher. 2016. A Multifrequency MAC Specially Designed for Wireless Sensor Network Applications. *ACM Trans. WSN* 9, 4, Article 39 (March 2016), 7 pages.
DOI: 10.1145/280091.0000001

1 INTRODUCTION

As a new technology, Wireless Sensor Networks (WSNs) has a wide range of applications [5, 6, 13], including environment monitoring, smart buildings, medical care, industrial and military application. Among them, a recent trend is to develop commercial sensor networks that require

This work is supported by the National Science Foundation, under grant CNS-0931006, grant CCR-0521077 and grant ECS-0426949.

Authors' addresses: G. Zhou, Computer Science Department, College of William and Mary, 1 W. Willoughby St., Staunton, VA 22580; Y. Wu, Computer Science Department, University of Virginia, 175, East Main Innovation Center, 7, The Computer Science Department, University of Minnesota, 2; Huang, Google, T. He, Abdelzaher (Current address) NASA Ames Research Center, Moffett Park, California 94035.

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DOI: 10.1145/280091.0000001

ACM Transactions on the Web, Vol. 9, No. 4, Article 39. Publication date: March 2016.

39

acmlarge

A Multifrequency MAC Specially Designed for Wireless Sensor Network Applications

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CCS Concepts: **Computer systems organization** → **Embedded systems; Robotics; Networks** → **Network reliability;**

General Terms: Design, Algorithms, Performance

Additional Key Words and Phrases: Wireless sensor networks, media access control, multi-channel, radio interference, time synchronization

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DOI: 10.1145/280091.0000001

ACM Comput. Syst. Syst., Vol. 9, No. 4, Article 39. Publication date: March 2016.

39

SIG Proceedings Paper in LaTeX Format¹Extended Abstract²

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ABSTRACT

This paper provides a sample of a SIGX document which conforms, somewhat loosely, to the formatting guidelines for ACM SIGX Proceedings⁴.

CCS CONCEPTS

Computer systems organization — Embedded systems; Reliability; Robotics; Networks — Network reliability.

KEYWORDS

ACM proceedings; SIGX; text tagging

ACM Reference Format

Ben Trivato, G.K.M. Tobin, Lars Thorsvold, Lawrence F. Leipsner, Scott Fogarty, Charles Palmer, John Smith, and Julius P. Kamquat. 1997. SIGX Proceedings Paper in LaTeX Format. In *Proceedings of ACM Extended Abstracts*. New York, NY, USA, July 1997. ACM/IEEE Press, 4 pages. DOI: 10.1145/1234567

1 INTRODUCTION

The proceedings are the records of a conference⁵. ACM asks to give these conference proceedings a uniform, high-quality appearance.

Requirements

The final version of the author's paper is available in electronic PDF document.
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The authors document the source using the LaTeX system.
The authors document the source using the LaTeX system.
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1234-5678-9010

To do this, ACM has some rigid requirements for the format of the proceedings documents: there is a specified format (balanced double column), a specified set of fonts (Latin or Helvetica and Times Roman) in certain specified sizes, a specified line size, centered on the page, specified size of margins, specified column width and gutter size.

2 THE BODY OF THE PAPER

Typically, the body of a paper is organized into a hierarchical structure, with numbered or unnumbered headings for sections, subsections, sub-subsections, and even smaller sections. The command `\section` that precedes this paragraph is part of such a hierarchy⁶. SIGX handles the numbering and placement of these headings for you, when you use the appropriate heading commands around the titles of the headings. If you want a sub-subsection or smaller part to be unnumbered in your output, simply append an asterisk to the command name. Examples of both numbered and unnumbered headings will appear throughout the balance of this sample document.

Because the entire article is contained in the document environment, you can indicate the start of a new paragraph with a blank line in your input file; that is why this sentence forms a separate paragraph.

2.1 Type Changes and Special Characters

We have already seen several typeface changes in this sample. You can indicate individual words or phrases in your document with the command `\textit`, embedding with the command `\textbf` and typewriter-style file instances, for a computer code) with `\texttt`. But remember, you do not have to indicate typeface changes when such changes are part of the structural elements of your article. For instance, the heading of this subsection will be in a same size⁷.

¹For more information, see the ACM website at <http://www.acm.org>.

²Number between lines. Let's make this another short section to see how it looks.

SIG Proceedings Paper in LaTeX Format¹Extended Abstract²

Anonymous Author(s)



Figure 1. This is a header.

Abstract

This paper provides a sample of a SIGX document which conforms, somewhat loosely, to the formatting guidelines for ACM SIGX Proceedings.

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Keywords: ACM proceedings; SIGX; text tagging

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¹This one.

²Number one.

³This is a sentence.

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You can use whatever symbols, accented characters, or non-English characters you need anywhere in your document; you can find a complete list of what is available in the SIGX user's guide [7].

¹For more information,

²Number between lines. Let's make this another one to see how it looks.

³A third and last sentence.

SIG Proceedings Paper in LaTeX Format¹Extended Abstract²

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Julian F. Kumpquat
The Kumpquat Consortium
jkumpquat@comcast.net



Figure 1: This is a raster

ABSTRACT

This paper provides a sample of a SIGX document which conforms, somewhat loosely, to the formatting guidelines for ACM SIGX Proceedings.

CCS CONCEPTS

Computer systems organization -- Embedded systems; Redundancy; Robotics; **Networks** -- Network reliability.

Footnote 1:

This full version of the author's paper is available as arXiv:1408.0001.

²The "Extended Abstract" version for SIGX.

³The authors disavow any knowledge of this author's activities.

⁴This author is the one who did all the really hard work.

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DOI: 10.1145/1234

KEYWORDS

ACM Proceedings; SIGX; text tagging

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1 INTRODUCTION

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¹This is a footnote.

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¹Reduce the previous block, and copyright information.

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⁴This author is the one who did all the really hard work.

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ABSTRACT

UPDATED—July 12, 2016. This sample paper describes the formatting requirements for SIGCHI Extended Abstract Format, and this sample file offers recommendations on writing for the worldwide SIGCHI readership. Please review this document even if you have submitted to SIGCHI conferences before, as some format details have changed relative to previous years. Abstracts should be about 150 words. Required.

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Plans

1. Accessibility support
2. Biblatex option

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