Making ACM Larger Styles

Boris Veytsman, George Mason University, USA

TUG'2016





Advancing Computing as a Science & Profession

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

Early adopters of T_EX .

The problem of early adopters

The code tends to be rather old...

 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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- 2. acmlarge.cls
- 3. acmsiggraph.cls
- 4. acmsmall-ec13.cls
- 5. acmsmall.cls
- 6. acmtog.cls
- BibT_EX files:
 - 1. ACM-Reference-Format-Journals.bst 5. acm-alpha.bst
 - 2. SIGCHI-Reference-Format.bst
 - 3. acmsiggraph.bst
 - 4. acm-abbrev.bst

The code is *almost* identical...

- 7. acmtrans2m.cls
- 8. sig-alternate-05-2015.cls
- 9. sig-alternate.cls
- 10. sigchi-ext.cls
- 11. sigchi.cls
- 12. sigplanconf.cls

- 6. acm-plain.bst
- 7. acm-unsrt.bst

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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and the footnotes are horror and the fonts too and...

... 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}

}



I consulted ACM since 2011:

- 1. BibT_EX updates
- 2. "Concepts system" (enhanced keywords)
- 3. New boilerplate copyright



I consulted ACM since 2011:

- 1. BibT_EX updates
- 2. "Concepts system" (enhanced keywords)
- 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

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Principles for new T_EX code

No more forking! One code for all

 \sim the the state of the state 2/122/2020

This means one dtx source. I decided to have one cls file as well—just to avoid temptation to rename and change a class file.

Same interface for all outputs

You should be able to change

\documentclass[acmsmall]{acmart}

to

\documentclass[sigconf]{acmart}

and everything "just works"...

Same interface for all outputs

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 AMSLATEX as possible

Exception: authors' information.

As much standard LATEX and AMSLATEX as possible

Exception: authors' information.

Structured commands

 T_EX file is to be analyzed to extract information for metadata.

As much standard LATEX and AMSLATEX as possible

Exception: authors' information.

Structured commands

T_EX 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.0. 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{cagov}
%\setcopyright{cagov}
%\setcopyright{cagovmixed}

Some other bells and whistles

Copyright system

\setcopyright{acmcopyright}
%\setcopyright{acmlicensed}
%\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, Callego of William and Mary YAFENG WU, Usaroniya yi Yangian TING YAN, Eans Innovatian Conter TUNH FL, Ustrover of Mannesta CHENGOU HUANG, JOHN A. STANKOVIC, and TAREK F. ABDELZAHER, University of Vengrina

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 $\label{eq:CCSConcept::-Computer systems organization \rightarrow Embedded systems; Relandancy; Robotics; -Networks \rightarrow Network reliability;$

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

ACM Reference format:

New Yorking Constraints (Journal). Going Zhou, Yubay Wu, Ting Yan, Tian He, Chengdu Huang, John A. Stankovic, and Tarek P. Abdelzaher. 2010. A Multifrequency MAC Specially Designed for Wireless Sensor Network Applications. ACM Trans. Web 9, 4, Article 39 (March 2010), 5 pages. DOI: 0000001.000001

1 INTRODUCTION

As a new technology, Wireless Sensor Networks (WSNs) has a wide range of applications [5, 8, 13], including environment monitoring, smart buildings, medical care, industrial and military applications. 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-0425060, grant CCR-022507 and grant IN-CS-022000. Arthor's addresses: G. Zhou, Computer Science Department, College of William and Mary; Y. Wu and J. A. Stankovic,

Journey valuetouts Constant, Comparis address inplicitantic, Unity or writing and Hudy, it writing J. A. Bantovik, Computer Science Dopartament, Harverbard of Wightman Tan, Educational Context, F. He, Comparts Science Dopartment, University of Minnesotic, Chang, Google, T. F. Addetasher, (Current address) NASA Amer Research Center, Molleri Fuld, California 1905.

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0 2009 Copyright hold by the owner/anthor(i). Publication rights licensed to ACM. 1559-1131/2000/3-ART19 \$15.00 DCI. 000001.000001

ACM Transactions on the Web, Vol. 9, No. 4, Article 39. Publication date: March 2009.

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A Multifrequency MAC Specially Designed for Wireless Sensor Network Applications

GANG 2HOU, College of William and Mary YAFENG WU, University of Vinginia TING YAN, Each Introvatian Center TINN HE, University of Alianeesta CHENCDU HUNKG, JOHN A. STANKOVIC, and TAREK F. ABDELZAHER, University of Vinginia

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General Terms: Design, Algorithms, Performance

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

ACM Reference format

Gang Zhao, Yaling Wu, Ting Yao, Tiao He, Chongdu Huang, John A. Stankovic, and Taniet F. Abdehaber. 2010. A Multitingenero MAC Specially Designed for Wineless Sensor Network Applications. ACM J. Comput. Cult. Horit. 9, 4, Article 39 (March 2016), 7 pages. D20 000001 1000001

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This work is supported by the National Science Foundation, maker guart CNS eVIIO46, guart CNR 9151171 and guart ENC-54120401. Archor's datheress. C. 2020, Computer Science Dopartness, Calleyer of Willman and Mayy T. W. van A. 9. A statistic, Comparet Science Dopartness, University of Vingüín, T. Tan, Eann Innocatine Control, T. He, Comparet Science Dopartness, University of Manaserta (Biang, Congle, F. 2. Additabae, C. 2020). and March Science Testart Control, T. He, Comparet Science Dopartness, University of Manaserta (Biang, Congle, F. T. Additabae, C. 2020). and March Science Testart Control, March Testa, Caldedina 19935.

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ACM J. Comput. Call: Herit, Vol. 9, No. 4, Article 39. Publication date: March 2010

acmtog

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 Virginia and 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

windess ad hoc networks, while in windess sensor networks, researchers still focus on sincle frequency solutions. In wireless sensor networks, each adopt such smaller packet sizes compared to those in general wireless ad has networks. Hence, the multifestments MAC protocols processed

CCS Concepts -Computer systems organization -- Embedded sys-tems: Relation: Relation -Networks --Network relability General Terms: Desires, Alecerithues, Performance

Additional Key Words and Phrases Wardess sensor networks, media access

control, multi-channel, radio interference, time conchronization

AL: M Reference Ionact Gaug Zhou, Yafeng Wa, Ting Yan, Tian He, Chengdu Huang, John A. Staskovic, and Tarek E Abdeliador. 2019. A Multiference WAY Soc-

cially Decipied for Wieless Sense Network Applications. ACM Trans. Graph. 9, 4, Article 39 (March 2020), 4 pages. DOI 1000001.0000001.2

1 INTRODUCTION

As a new technology, Windess Sensor Networks (WSNs) has a wide range of applications [5, 8, 13], including environment monitoring, must heldings medical care industrial and military ambications man beings, for example, assisted living [4, 12, 20] and smart homes

This work is supported by the Matinal Kinner Franklinn, white goal CNN-403000, goal CNN-403107 and goal 30: CO-4030000 Automatic and the Automatic Tana, Jahan Immunian Contex, Tah, Computer Neurona Dynatomati Manuenia CHanney (Deep F J. Mahdukan J. Journal alian (NANA Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Contex, Balante Hold, Caldonaux 1010.

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'For these applications, sensor devices are incorprated into human cloths [3, 8, 27, 39] for monitoring health related information like DKG readings, fall

high network throughput, off-the-shelf sensor devices only provide very limited bandwidth in a sinele channel: 19.2 Kbos in MICA2 [8]

In this article, we propose MMSN, abbreviation for Multifre-quency Media access control for windows Sensor Networks. The main contributions of this work can be summarized as follows. · To the best of our knowledge, the MMSN protocol is the first multifrequency MAC protocol especially designed for

- WSNs, in which each device is equipped with a single radio transceiver and the MAC layer packet size is very small. nents, which are rood choices for many deployed compar-
- We develop new toggle transmission and snooping techto achieve scalable performance, avoiding the nonscala "one centrol channel + multiple data channels" desien [27]

2 MMSN PROTOCOL 2.1 Frequency Assignment

We propose a subortimal distribution to be used he such made which is easy to compute and does not depend on the number of competing nodes. A natural candidate is an increasing geometric sequence, in which



In our algorithm, we use the suboptimal approach for simplicity nd generality. We need to make the distribution of the selected tion (1). It is implemented as follows: First, a random variable a with a uniform distribution within the interval (0, 1) is generated on each node, then time slice i is selected according to the following

 $i = \lfloor (T+1) \log_{b} [\alpha(b-1)+1] \rfloor.$ It can be easily proven that the distribution of i conforms to Equation

manuscript



- GANG ZHOU[‡], YAFENG WU, and JOHN A. STANKOVIC, University of Virginia
- TING YAN, Eaton Innovation Center
- TIAN HE University of Minneset
- CHENGDU HUANG, Google and University of Virginia
- 11 TAREK F. ABDELZAHER, University of Illinois at Urbana-Champaign, University of Virginia, and Google
- 11 MultiPreparacy media access control has been well understood in general wireless ad hos networks, while in wireless sensor networks, researchers still focus on single forquency solutions. In wireless sensor networks, each device is typically equipped with a single
 - radio transceiver and applications adopt 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 multible for wireless sensor network
- arenications, which we further demonstrate through our simulation exceriments. In this article, we process MMSN, which takes
- advantace 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. When multiple physical frequencies are available, it also achieves increased energy efficiency, demonstrating the ability to work
- against radio interference and the tolerance to a wide range of measured time synchronization errors
- CCS Concerts -Computer systems corranization -> Embedded systems: Relations: Relation -Networks -> Network pilabi
- General Terms: Desires Alecerithees Performance
- 21 Additional Key Words and Phrases: Wardess sensor networks, media access control, multi-channel, radio interference, time synchro-24 miartion
- ACM Reference format
- Gaue Zhou, Yafene Wu, John A. Stankovic, Tine Yan, Tian He, Cheneda Huane, and Tarek F. Abdeltaher. 2018. A Multifrequence
- MAC Specially Designed for Wireless Senare Network Applications. ACM Comput. Entertain. 9, 4, Article 39 (March 2020), 9 pages. DOL-000001.000000

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- This work is supported by the National Interace Researching under great CNI (40000), great CCE (400107) and great DN CS-(40000). Author's adoption of the CCE of the Computer National National Computer Statements (Computer National National

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- 41 0 2010 ACM. Manuscript submitted to ACM



sigconf

SIG Proceedings Paper in LaTeX Format

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Extended Abstract G.K.M. Tobin[§] P.O. Box 1212 Dublin. Ohio 43017-6221

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forartys@amesres.cer John Smith

The Thervild Group jornith@affiliation.org

ABSTRACT

This paper provides a sample of a kGyX document which conforms, somewhat loosely, to the formatting guidelines for ACM SIG Proceedings?

CCS CONCEPTS

Connector systems commission -- Embedded systems: Redendancy, Robotics; -Networks -> Network reliability

KEYWORDS

ACM proceedings, \$70%, text tagging ACM Reference formati

ACM Reference Domain from Tecnards, GKM. Tobin, Lacs Thervild, Lawrence P. Leipnner, Sean Fogerty, Charles Polmer, John Smith, and Julius P. Kumpast. 1997. SIG Proceedings Daper in LaTAX Format. In: Proceedings of ACM Workstrak conference, 17 Pana, Trans IXX, July 1999 (INCOSTINCE/VI) 4 pages.

1 INTRODUCTION

The praceedings are the records of a conference². ACM seeks to give these conference by-products a uniform, high-quality appearance.

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Lars Therväld¶ The Thervild Geour 1 Therväld Circle Hekla Iceland heatthaffiliation over Charles Palmer Palmer Research Laboratories

8600 Dataseint Drive San Antonio, Texas 78229 cualmers@rel.com

Julius P. Kumquat The Kumquat Consortium jpkumquat@consortium.net

To do this, ACM has some rigid requirements for the format of the proceedings documents: there is a specified format (balanced double columns), a specified set of fonts (Arial or Hebetica and Times on the page, specified size of margins, specified column width and outler size

2 THE BODY OF THE PAPER

Typically, the body of a paper is organized into a hierarchical struc tions, sub-subsections, and even smaller sections. The command \nection that precedes this paragraph is part of such a hierarchy'. EQX 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 unrambered in your output, timely append an astaria to the command name. Examples of both numbered and unrumbered headings will appear throughout the balance of this sample document.

ment, 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 namerach.

2.1 Type Changes and Special Characters

We have already seen several typeface changes in this sample. You can indicate italicized words or phrases in your text with the such changes are part of the structural elements of your article for instance, the heading of this subsection will be in a same setif This is a findeate

instance. Instance, here: Let's make this a solver short one to see here it looks

sigplan

SIG Proceedings Paper in LaTeX Format

Extended Abstract[†]

Anonymous Author(s



Abstract This paper provides a sample of a kTeX document which conforms, somewhat loosely, to the formatting guidelines for ACM SIG Proceedings

 $\label{eq:ccs} \textit{CCS Concepts} \quad \text{-Computer systems organization} \rightarrow \textit{Embed-}$ ded systems; Relandancy; Robotics; -Networks -> Network seli-

Economic ACM rescandings WHY but barries

ACM Reference format ACM Reference formal: Anonymous Author(s), 1997. SG Proceedings Paper in LaToX Format. In Proceedings of ACM Woodstock conference, El Paso, Texas USA, July 1997 (WOODSTOCK'N') 4 pages.

1 Introduction

The proceedings are the records of a conference¹. ACM seeks to give these conference by-products a uniform, high-quality appearance. To do this. ACM has some rieid requirements for the format of the columns), a specified set of fants (Arial or Helvetica and Times, Roman) in certain mecified sizes, a mecified live area, centered on the page, specified size of margins, specified column width and sutter size.

Tille note [†] Subtitle note

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Constant A, A. Y., & Cane, State 1334
 C. S. Capyright held by the second softwar(a), 323–4867-54 567(58);96. ISIA09 DOI: 10.071023.4

2 The Body of The Paper

Typically, the body of a paper is organized into a hierarchical structions, sub-subsections, and even smaller sections. The comman \section that precedes this paragraph is part of each a hierarchy. IaTeX handles the numbering and placement of these headings for you, when you use the appropriate heading commands around the tiles 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 unrean bered headings will appear throughout the balance of this sample

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2.1 Type Changes and Special Characters

We have already seen several typeface changes in this sample. typewriter-style (for instance, for computer code) with tteattt. But remember, you do not have to indicate typestyle changes when such changes are part of the structural elements of your article; typeface, but that is handled by the document class file. Take cars with the use of the curly braces in typeface changes: they mark the beginning and end of the text that is to be in the different typeface You can use whatever symbols, accented characters, or non-English characters you need anywhere in your document; you find a complete list of what is available in the RDV User's Guide [7]

This is a furtherine. Another furtherine, here: Let's make this a suffice short one is use here it looks. A third, and lest, furtherine.

siggraph

SIG Proceedings Paper in LaTeX Format

Extended Abstract

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ute for Clarity in Documentation	Institute for Clarity in Documentation	
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larst@uffiliation.org Charles Pakner Palmer Research Laboratories \$600 Datapoint Drive epalmer@prl.com

Lars Thervild⁴ The Thervild Group

1 Thervild Circle

Hekla, keeland

Indian P. Kommund The Kumquat Consortium inkumpuati/consortium.net



ABSTRACT

This paper provides a sample of a hdgX document which conforms, somewhat loosely, to the formatting guidelines for ACM SIG Procredings.

CCS CONCEPTS

Computer systems organization → Embedded systems; Re-dondoxy; Robotics; -Network == Network reliability;

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Figure 1: This is a teaser KEYWORDS

ACM proceedings, http:// text tagging

ACM Reference format: Rev Trevato, GKM. Tabin, Lars Thervild, Lawrence P. Leipuner, Sean Fogarty, Charles Polner, John Smith, and Julius P. Kanapat. 1997. SIG Princerdings Days: in LEX Format: In Proceedings of ACM WorkStock conference, El Pano, Texas USA, July 2007 (WOODSTOCK'07), 4 pages.

1 INTRODUCTION

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"This is a first-set

sigchi



SIG Proceedings Paper in LaTeX Format*



ABSTRACT

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ABSTRACT

UPDATED—July 12, 2016. This sample paper describes the formatting requirements for SIGCH1 Extended Abstract Format, and this sample file offers recommendations on writing for the worldwide SIGCH1 readerbling. Please review this document even if you have submitted to SIGCH1 conferences before, as some format details have changed relative to previous years. Abstracts should be about 150 words. Required.

WOODSTOCK'97, El Paso, Texas US.

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Plans

- 1. Accessibility support
- 2. Biblatex option

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