Typesetting Guidelines for the *Theory of Computing*

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Abstract

This document describes LATEX typesetting guidelines for the *Theory of Computing*, including the use of the toc.cls class file.

Primer

While detailed instructions for using the ToCT_EX packages appear in the complete guide below, in most cases you may typeset your article by adapting the template file toc-template.tex and adhering to the following basic guidelines.

- 1. Please submit your manuscript in a single .tex file and a single .bib file, plus the figure files. Copyediting becomes extremely cumbersome when the article is divided up into multiple source files.
- 2. Minimize usage of LATEX packages and elaborate LATEX macros. Please delete all macros not used in the paper.
- 3. Never use \def to define commands; instead use the robust command \newcommand. All author-defined macros must have names that are *at least three characters*, to avoid conflict with predefined macros. *Do not use* \renewcommand as it will, by design, change the meaning of predefined macros and may cause typesetting errors that will go undetected.
- 4. Please remove all text from the source file that does not contribute to the PDF output. This includes text made invisible by various constructs such as \iffalse ... \fi or \ignore { ... }. The reason for this request is twofold: these invisible passages considerably increase the copy editors' job; and they remain visible in the final published source file. They can also be a source of big potential mistakes.

Exception: Do not remove the text of our template, but please remove your own text commented out by % signs to help the copyeditor.

Note: All commented-out text will be automatically removed before publication.

5. If a preliminary version of your article has been published, add a footnote to the title with a reference to the preliminary version. If possible, link to the preliminary version, preferably with a DOI. For example:

```
\title{Article title\titlefootnote{A
    \href{http://dx.doi.org/10.1145/1806689.1806743}{preliminary
    version} of this paper appeared in the Proc. of the 42nd ACM
    Symp.\ on Theory of Computing (STOC'10).}}
```

Note that links to DOIs have the form http://dx.doi.org/(doi). Thus

http://dx.doi.org/10.1145/1806689.1806743

is the proper link to the DOI 10.1145/1806689.1806743.

6. Your abstract should be self-contained. Please refer to citations by author name rather than number. For example, rather than

This paper continues the work of [8] and builds upon the techniques of [17] and [18].

we prefer

This paper continues the authors' work (ICALP'05) and builds upon the techniques of Taylor et al. (2005) and Taylor and Zhang (STOC'04).

Here "Taylor et al." refers to a journal article with three or more authors.

7. We prefer to place tiny spaces between the letters in abbreviations like Ph. D., M. S., e. g., i. e., etc. This can be accomplished in LATEX using $\$, which produces a small space; thus,

Ph.\,D. M.\,S. B.\,S. e.\,g. ..

We supply the macros \phd, \msc, \bsc, \eg, and \ie, which will produce these abbreviations with correct spacing. Note that in standard usage, the abbreviations "e.g." and "i.e." are always followed by a comma.

8. Please use \emph rather than \emphasize text, as \emph is smart about space following the emphasized text: the emphasized text "sonticus" is produced with the LATEX fragment \emph { sonticus }. Similarly, use the LATEX2e commands \texttt, \textsl, \textsl, \textsl, and \textbf, to produce teletype, slanted, italic, sans-serif, and bold text. These commands take the text on which they operate as arguments: thus \textsf { sans-serif } produces sans-serif. In math mode, please use the \text command to produce fragments of regular text. For example,

produces the typesetting

 $C_U = \{f \mid f \text{ is uniformly continuous on } U\}$

Use N, Z, Q, R, and C to produce the symbols for the five common number systems; they will be typeset in blackboard-bold as $\mathbb{N}, \mathbb{Z}, \mathbb{Q}, \mathbb{R}, \mathbb{C}$. Use the mathbb command to create other blackboard-bold characters in math mode; for instance $mathbb{H}$ will produce \mathbb{H} , the standard symbol for the quaternions.

- 9. You are probably familiar with LATEX's mechanism for labels and references (via the \label and \ref commands). In ToC articles, we use an amplification of this system offered by the \expref command. The advantage is that this command provides a larger hyperlink anchor: for example, the standard reference Theorem~\ref{thm:Markov} produces the typesetting Theorem 1; note that the number is the anchor. In contrast, the command \expref{Theorem}{thm:Markov} produces the typesetting Theorem 1. Please use \expref where you would usually use \ref with the exception of equations, which are referred to with the \expeqref command: e.g., \expeqref{equation}{eq:covariance} which produces the typesetting: equation (2).
- 10. Macros for theorem-like environments (theorems, definitions, etc.) and proofs are provided by toc.cls (using the amsthm package). Theorems, propositions, definitions, etc., are typeset via the familiar evironments:

```
\begin{theorem}[Stokes' Theorem]
Theorem body.
\end{theorem}
```

Proofs are typeset similarly:

```
\begin{proof}
    Proof body.
\end{proof}
```

In cases where a proof *ends* with a displayed equation, use the \gedhere command to place the end of proof marker on the same line as the displayed equation. For example,

```
\begin{proof}
...
And we conclude that
\[
X = \iint_{\delta S} f\,. \qedhere
\]
\end{proof}
```

will produce

Proof. . . . We conclude that

$$X = \iint_{\delta S} f \,. \qquad \Box$$

(Without the \gedhere command, the symbol would appear on the following line.) When a proof is presented without a proof environment, use the \ged command to manually lay out an "end of proof" marker:

In the case where a proof is not adjacent with the theorem it supports, indicate this with the optional argument as below:

```
\begin{proof}[Proof of \expref{Theorem}{thm:Markov}.]
To prove inequality~\eqref{markov.eq}, expand the definition of
$E[X]$.
\end{proof}
```

This produces the typeset output:

Proof of Theorem 1. To prove inequality (1), expand the definition of E[X].

See Section 4 for further details.

- 11. ToC numbers theorems, lemmas, definitions, remarks, etc. consecutively within each section. So Section 3 might begin with Definition 3.1, followed by Theorem 3.2, Remark 3.3, Lemma 3.4, Theorem 3.5, etc. *Please do not defeat this numbering system*.
- 12. Make sure you use the math operators provided by LaTeX, e.g., \log, \ln, \exp, \dim, \min, \max. These will result in appropriate type and spacing. If you need to define your own operator, use the \DeclareMathOperator command in the preamble (before \begin{document}). For example,

```
\DeclareMathOperator{\Schur}{\mathbb{S}}
\DeclareMathOperator{\Specht}
\begin{document}
...
Schur-Weyl duality yields $V^{\otimes n} = \bigoplus_\lambda
(\Schur^\lambda(V)) \otimes \Specht_\lambda$.
```

will print "Schur-Weyl duality yields $V^{\otimes n} = \bigoplus_{\lambda} (\mathbb{S}^{\lambda}(V)) \otimes \text{Specht}_{\lambda}$."

- 13. Please use the ToC macro \eee to typeset the base of the natural logarithm. This will print \mathrm "e" to distinguish it from variables that might be called *e*.
- 14. Graphics must be supplied in .pdf (acrobat) and included with the \includegraphics command. We encourage use of pgf/TikZ for creation of in-line graphics. We use the subcaption package to layout subfigures. See Section 3 for a more complete description.
- 15. Supply your cited references as a BibT_EX database.
- 16. ToC publishes reasonably full names of bibliography authors. Please supply them.
- 17. It will be most helpful if you can provide *include digital object identifiers* for each BibTEX record. This amounts to adding, for each BibTEX record, a line of the form

doi = $\{xxx\}$,

See Section 6 for further details.

- 18. ToC discourages appendices. We ask you to fold their material into the body of the article. If you feel some material must remain in appendices, please place those appendices before the acknowledgments and the biblography.
- 19. ToC posts authors' photos on the "About the authors" web page associated with the article. If you agree to have your picture posted, please email it to the editors in jpeg format, along with the final, ToC-typeset mauscript. Ideally the picture should be 150 pixels wide; if it is different, the software will adjust its width to 150 pixels. The height to width ratio of the picture should be between $2^{1/\pi}$ and the golden ratio: an ideal photograph will be 150×243 pixels.
- 20. Please include a brief biographic sketch of each author at the end of the article, in the "about the authors" section. Take the biographical sketches of previously published papers as models. Some guidelines: please include basic information about your education, research, career (institutions, advisor(s), thesis title, honors/awards, list of areas of interest in some detail ["complexity theory" will not distinguish you from the majority of authors]). This is a good place to pay tribute to a mentor who helped shape your career—perhaps someone at your high school. We encourage you to include some personal information (place where you grew up, family, hobby, etc.), sprinkle it with humor. Please include links in the biographical sketch (to your advisor's and your Alma Mater's home page, your favorite hobby site, etc.).
- 21. Compile your article with pdflatex.

Complete TypeSetting Guide

This document describes typesetting guidelines for the *Theory of Computing*. Articles for *Theory of Computing* are to be typeset using pdfLATEX, using the ToCTEX class files. The most recent version of the class files (and this explanatory document) may be found at

```
http://www.theoryofcomputing.org/submit/toctexguide.html.
```

The author kit In order to prepare your article for *Theory of Computing*, you will need the files

toc.cls	The top-level style file.
tocbase.cls	A subordinate style file, required by toc.cls.
tocplain.bst	The ToC bibliography style file.
toc-instructions.pdf	These instructions.
toc-instructions.tex	The LATEX file that produced these instructions.
toc-instructions.bib	A accompanying example BibT _E X file.
toc-template.tex	A template file for ToC articles.

1 Preamble, title, and author data

Your file should begin with

```
\documentclass{toc}
```

The preamble (this is the portion of the $\[MTEX]$ file appearing between $\[\] documentclass \{ \dots \}\]$ and the $\[\] document \}\)$ should invoke the $\[\] tocdetails\]$ command in order to set metadata associated with the article:

```
\tocdetails{
   title = {Full title},
   plaintexttitle = {Math-redacted title for pdf metadata}, (optional)
   runningtitle = {Shortened title for page headers}, (optional)
   author = {Author list: Full Name, Full Name, and Full Name},
   plaintextauthor = {Author list, no LATEX, no "and": Full Name, Full Name, Full Name, Full Name},
   copyrightauthor = {Shortened author list for copyright banner}, (optional)
   runningauthor = {Shortened author list for page headers}, (optional)
   acmclassification = {List of ACM classifications},
   amsclassification = {List of keywords, lowercase}
}
```

Comments on setting the article's metadata:

- **Title declarations** Use the title key to declare the full title of the article, which may include LATEX typesetting commands. If your title is long or contains LATEX formatting like mathematical symbols, there are two other keys that will require attention: If your title contains LATEX formatting, set the key plaintexttille to a simple ascii version of the title—this will be used to set the pdf metadata for the article, in which special LATEX commands will not be interpreted. If your title is long, set the key runningtille to a shortened version of the title that can fit in the header of a journal page. If neither of these circumstances apply (that is, your title is reasonable short and has no LATEX commands), then it suffices to simply set the title key—the others will be set automatically to the same value.
- Author declarations. Use the author key to declare the complete list of authors, using full author names and correct punctuation. For example,

author = {Alex Russell and K\'alm\'an Sz\H{0}l\H{0}ssy},

If you have three or more authors, use the format

author = {Full Name, Full Name, and Full Name},

You must use the plaintextauthor key to separately declare the author listing that will be included with the article's pdf metadata. This is for two reasons: this must be a strictly comma delimited list (so no "and" before the last author), and no LATEX typesetting is permitted. Thus:

plaintextauthor = {Alexander Russell, Kalman Szolossy},

If your author list is long, there are two other keys that might need attention: runningauthor and copyrightauthor. These will default to the same value as author which is fine unless your author list overflows the page headers or the copyright box. In either of these cases, set the keys here to a shortened list of authors. You may shorten the author list by abbreviating first names (e.g., "K.\ $Sz\H{o}l\H{o}ssy$ ") or, in extreme cases, "et al."

Keywords and classification data Select a short list of appropriate keywords for your article: these should appear in a comma-delimited list as a parameter to the keywords key; keywords are not terminated with a period. Similarly, use the acmclassification and acmclassification keys to declare lists of ACM and AMS classifications from the lists at

http://www.acm.org/about/class/ccs98-html and http://www.ams.org/msc/.

(Note that typical computer science classifications in the AMS taxonomy appear in category 68-xx.) Your classification choices should appear as comma-delimited lists; again, do not terminate these lists with a period.

The title page. The title page layout, including the title, individual authors, and the abstract, is defined by the frontmatter environment. This should appear right after \begin{document}.

```
\...
\begin{document}
\begin{frontmatter}
\title{Typesetting Guidelines for the\\ \textsl{Theory of Computing}}
\author[alex]{Alexander Russell}
\author[kalman]{K\'alm\'an Sz\H{o}l\H{o}ssy\thanks{A fictitious
name.}}
\begin{abstract}
This document describes \LaTeX\ typesetting guidelines for the
\emph{Theory of Computing}, including the use of the
\texttt{toc.cls} class file.
\end{abstract}
...
```

Title and author data Use the $\title{...}$ command to typeset your full title. This is not always necessary, as the style file will pick up your title from the tocdetails command above. However, if you wish to have fine control over the position of carriage returns in the title (via placement of $\$ markers) or wish to have a footnote on the title (which is generated with the $\titlefootnote{...}$ command), you must (re-)declare the title here.

One \author command must appear for each author. Footnotes on author names may be obtained by the \thanks command, as above. You may use such footnotes to acknowledge financial support. Avoid lengthy footnotes using \thanks: In particular, the tocauthors and tocaboutauthors environments, described below, are to be used to record author contact data. The optional arguments (e.g., alex and kalman above) are used to associate the authors' names with this contact data. After the bibliography, further author data is provided:

```
\begin{document}
\begin{frontmatter}
  . . .
\end{frontmatter}
% Article body here.
. . .
\bibliographystyle{tocplain}
\bibliography{toc-example}
\begin{tocauthors}
\begin{tocinfo}[alex]
 Alexander Russell\\
 Professor\\
 University of Connecticut, Storrs, CT\\
  acr\tocat{}cse\tocdot{}uconn\tocdot{}edu\\
  \url{http://www.engr.uconn.edu/~acr}
\end{tocinfo}
\begin{tocinfo}[kalman]
  K\'alm\'an Sz\H{o}l\H{o}ssy\\
  Senior fictitious author\\
  TOC Hungary Inc., Kecskem\'et, Hungary\\
  kszolos\tocat{}ailab\tocdot{}tocdot{}hu \\
  \url{http://www.toc.hu/~kalman}
\end{tocinfo}
\end{tocauthors}
\begin{tocaboutauthors}
\begin{tocabout}[alex]
\textsc{Alex Russell} graduated from \href{http://www.mit.edu}{M.I.T.}
in 1996; his advisor was \href{http://www-math.mit.edu/~sipser/}{Mike
Sipser}. He enjoys editing the \href{htpp://theoryofcomputing.org}%
{\textsf{Theory of Computing}} and struggling with mathematics.
\end{tocabout}
\begin{tocabout}
\textsc{K\'alm\'an Sz\H{0}l\H{0}ssy} is a fictitious author whose name,
with its copious accents, emphasizes proper use of the plaintextauthor
key.
\end{tocabout}
\end{tocaboutauthors}
```

\end{document}

2 General typesetting requests

Use the \section command to break your exposition into natural sections. For example,

\section{General typesetting requests}

was the command used to typeset the beginning of this section. In *Theory of Computing*, section headings are given regular sentence capitalization, and are not terminated with periods.

Please use <code>\emph</code> rather than <code>\emphasize</code> text, as <code>\emph</code> is smart about space following the emphasized text: the emphasized text "sonticus" is produced with the LATEX fragment <code>\emph{sonticus}</code>. Similarly, use the LATEX2e commands <code>\texttt</code>, <code>\textsl</code>, <code>\textsl</code>, <code>\textsf</code>, and <code>\textbf</code>, to produce <code>teletype</code>, slanted, italic, sans-serif, and **bold** text. In math mode, please use the math mode commands <code>\mathbf</code> and <code>\mathbf</code> commands to produce Roman and **boldface** characters. *CALLIGRAPHIC* characters are produced by the <code>\mathbf</code> and <code>\mathbf</code> command (in math mode only). Use <code>\N</code>, <code>\Z</code>, <code>\Q</code>, <code>R</code>, and <code>\C</code> to produce the symbols for the five common number systems; they will be typeset in blackboard-bold as <code>N</code>, <code>Z</code>, <code>Q</code>, <code>R</code>, <code>C</code>. Use the <code>\mathbbf</code> command to create other blackboard-bold characters in math mode; for instance <code>\mathbbfH</code>} will produce <code>H</code>, the standard symbol for the quaternions.

3 Figures and included images

If you wish to include images in your article, please use the \includegraphics command in the graphicx package. Add

```
\usepackage{graphicx}
```

in the preamble, after the \documentclass{toc} command. Included images should always appear within a figure environment:

```
\begin{figure}[ht]
  \centering
  \includegraphics[width=5cm]{petersen}
  \caption{Petersen's graph: an included image.}
  \label{fig:Petersen}
  \end{figure}
```

This produces Figure 1.



Figure 1: Petersen's graph: an included image.

As *Theory of Computing* publishes articles using Adobe's acrobat (.pdf) format, we ask that you provide versions of your included figures in this format. Figures in encapsulated postscript format can be used to generate acrobat figures by the epstopdf program, also available in the comprehensive T_FX archive network at

http://www.ctan.org/tex-archive/support/epstopdf/.

Remark. The <code>\includegraphics</code> command adapts its behavior depending on whether your LATEX file is compiled with <code>latex</code> or <code>pdflatex</code>; so long as you do not have an extension on the filename in the <code>\includegraphics</code> command (as above), it will attempt to load the file with a .pdf extension when called from <code>pdflatex</code> and a .eps extension when called from <code>latex</code>.

PGF and TikZ PGF is a extremely powerful and flexible engine for generating high-quality pdf graphics in a LATEX document. PGF graphics are produced natively by the pdfLATEX engine, so they provide a few advantages over inclusion of externally-produced pdf graphics: the source code for the graphics appears as a part of the article (rather than a separate graphics file) and text in the graphics automatically inherits font information from the LATEX document. For example, Figure 2 was produced by the pdf package.



Figure 2: Petersen's graph in \mathbb{R}^2 as a unit-distance graph.

Subfigures Subfigures (that is, figures including several "subfigures," as in Figure 3) can be produced with the subcaption package; this replaces the deprecated subfigure and subfig packages. To use this infrastructure, add

```
\usepackage{caption, subcaption}
```

to the preamble of your document. Figures with subfigures are produced as in the following example:

```
\begin{figure}[ht]
 \begin{subfigure}[b]{.45\textwidth}
    \centering
    \includegraphics[width=2.5cm] {petersen} % An included image.
    \caption{Petersen's graph.}
    \label{subfig:Petersen}
  \end{subfigure}
  \quad
  \begin{subfigure}[b]{.45\textwidth}
    \centering
    (tikz picture code removed)
    \operatorname{Caption} (Petersen's graph in \R^2 as a
      \href{http://en.wikipedia.org/wiki/Unit_distance_graph}%
        {unit-distance graph}.}
    \label{subfig:pgf-petersen}
  \end{subfigure}
 \caption{Two subfigures with captions.}
 \label{fig:sub-example}
\end{figure}
```

With labels properly included in the subfigures, references to them are automatically handled correctly: the LATEX fragment \expref{Figure} {subfig:Petersen} produces the reference Figure 3a.



(a) Petersen's graph.

(b) Petersen's graph in \mathbb{R}^2 as a unit-distance graph.

Figure 3: Two subfigures with captions.

4 Mathematical formulæ and proofs

The AMS theorem class is loaded by default, along with standard macros for many theorem-like environments. Theorems, definitions, etc. are coded as follows:

```
\begin{theorem}[Markov's inequality]
\label{thm:Markov}
Let $X$ be a positive real-valued random variable. Then, for
every positive $\alpha$,
\begin{equation} \label{markov.eq}
  \Pr [ X \geq \alpha ] \leq \frac{E[X]}{\alpha}\,.
\end{equation}
\end{theorem}
```

The code above produces the following typesetting:

Theorem 1 (Markov's inequality). Let X be a positive real-valued random variable. Then, for every positive α ,

$$\Pr[X \ge \alpha] \le \frac{E[X]}{\alpha}.$$
 (1)

Constructs for propositions, corollaries, claims, and lemmas are predefined, invoked as above, and share numbering with theorems. For example:

produces the following typesetting:

Proposition 2 (Chebyshev's inequality). Let X be a real-valued random variable. Then, for every positive λ ,

$$\Pr[|X - E[X]| \ge \lambda] \le \frac{\sigma^2[X]}{\lambda^2}$$

Similar environments for definitions, conjectures, examples, remarks, and facts are also defined. They are typeset slightly differently but do share numbering with the constructs above. For example



Definition 3. Let X be a real-valued random variable for which $E[X^2] < \infty$. The standard deviation of X, denoted $\sigma[X]$, is given by

$$\sigma[X] = \sqrt{E\left[\left(X - E[X]\right)^2\right]}.$$

If you wish to define a new theorem-like environment (idea, for example), you must inform LATEX about the environment in the preamble of your document (that is, between the \documentclass{toc} command and the \begin{document} command). If you wish to define the environment so that it is typeset like a Theorem (text in italics), use the sequence of commands:

```
\theoremstyle{plain}
\newtheorem{idea}[theorem]{Idea}
```

If you wish to define an environment so that it is typeset like a Definition (text in Roman), use the sequence of commands:

```
\theoremstyle{definition}
\newtheorem{thought}[theorem]{Thought}
```

Proceed to use the construct in the body of your article as follows:

```
\begin{idea}
  Use binary-coded-decimal instead of the long code.
\end{idea}
```

This will produce the output:

Idea 4. Use binary-coded-decimal instead of the long code.

With the thought environment, the code will be this:

```
\begin{thought}
  Use binary-coded-decimal instead of the long code.
\end{thought}
```

This will produce the output:

Thought 5. Use binary-coded-decimal instead of the long code.

Proofs use the \proof environment: the code

```
\begin{proof}
  Expand the definition of $E[X]$.
\end{proof}
```

produces:

Proof. Expand the definition of E[X].

In the case where a proof is not adjacent with the theorem it supports, indicate this with the optional argument as below:

```
\begin{proof}[Proof of \expref{Theorem}{thm:Markov}.]
To prove inequality~\eqref{markov.eq}, expand the definition of
$E[X]$.
\end{proof}
```

produces

Proof of Theorem 1. To prove inequality (1), expand the definition of E[X].

(We'll discuss the \expref referencing command shortly.)

Equations. Unnumbered equations, like the one appearing in Proposition 2 above, are produced by the \$ (or [and]) delimiters: for example,

\$\$
\sigma^2[X] = E\Bigl[\bigl(X - E[X]\bigr)\Bigr]\,.
\$\$

produces the equation

$$\sigma^2[X] = E\left[\left(X - E[X]\right)^2\right].$$

Please use $\$, as above, to provide space between equations and any following punctuation. Note how the size of delimiters such as | and [can be changed in an equation by use of the modifiers \bigl and \Bigl. To have LATEX automatically adjust the size of such delimiters, use \left and \right, as in (2) below.

Numbered equation are produced using the standard equation environment. For example, the LATEX code

```
\begin{equation}
  \label{eq:covariance}
  \cov[X,Y] = E\left[\bigl(X - E[X]\bigr)
      \bigl(Y - E[Y]\bigr)\right]\,.
  \end{equation}
```

produces the equation

$$Cov[X, Y] = E[(X - E[X])(Y - E[Y])].$$
 (2)

To refer to an equation from the main text body, use the <code>\eqref</code> command with the label attached to the equation by the <code>\label</code> command. For example, the reference equation (2) is produced by the LATEX code <code>equation~\eqref{eq:example}</code>. (The ~ produces a hard space—LATEX will not allow it to break a line.)

5 Labels and references

Labels are attached to sections, theorems, equation and the like by invoking the command \label{labelname} and usually referred to by using \ref{labelname}. (See examples above.) Though not required by LATEX we suggest that label names follow a prefix convention that can used to identify the type of label. For example, labels attached to Theorems might be prefixed by thm:. This makes copy editing the LATEX file easier.

Links will automatically be generated between references like Theorem 1 and the object to which they refer. We provide an easy method to enlarge the size of the hyperreference anchor, using the \expref command. Specifically, the command \expref{Theorem} {thm:Markov} produces the satisfactory output Theorem 1. Please use \expref wherever you would use \ref, with the exception of equations, which are referred to with the \eqref command: e.g., equation~\eqref{eq:covariance}.

6 Bibliography; digital object identifiers

The references you cite must be specified by a BibT_EX database. As always with BibT_EX, care must be taken to guarantee the correct appearance of author names (especially if they contain accents) and formulae appearing in titles. Consider the following two BibT_EX entries, noting that portions of the BibT_EX fields that must be processed verbatim by LAT_EX (e. g., for appearance of accents, math, and capitalization) are enclosed in braces:

```
@article{v001a005,
author = {Peter {H{\o}yer} and Robert {\v{S}palek}},
title = {Quantum Fan-out is Powerful},
journal = {Theory of Computing},
year = {2005},
pages = {81--103},
doi = {10.4086/toc.2005.v001a005},
```

```
volume = {1},
}
@article{v002a011,
author = {Moses Charikar and Robert Krauthgamer},
title = {Embedding the {Ulam} metric into {$\ell_2$}},
journal = {Theory of Computing},
year = {2006},
pages = {207-224},
doi = {10.4086/toc.2006.v002a011},
volume = {2},
}
```

We will typeset your article with the BibT_EX style file tocplain.bst, provided in the author kit. Please use this as you prepare your article for ToC; your bibliography (which appears before the *about the authors* section) will be generated by the sequence of commands:

```
...
\bibliographystyle{tocplain}
\bibliography{toc-example}
...
```

Digital object identifiers Please provide a *digital object identifier* (DOI) for those of your references that possess them. These can be embedded directly in your BibT_EX database using the doi={} field, as above. For example, the article "Embedding the Ulam metric into ℓ_1 " by ?], which appeared in volume 2 of *Theory of Computing*, has been assigned the DOI:10.4086/toc.2006.v002a011. In general, the DOI associated with an article can be found on the publisher's page for the article. For example, the DOI for the article "Linearity testing in characteristic two," by ?], can be found on the article's homepage on IEEE website for the IEEE Transactions on Information Theory. The DBLP can be a fast way to find such article homepages.