



A Convenient Way to Manage Bibliography Data

Bibtex, Mendeley, Calibre and others

Saúl Díaz Infante Velasco | November 28, 2014



Calibre

When you wants write a paper

You have to manage a lot
reference.

When you wants write a paper

You have to manage a lot
reference.

- articles
- books
- others

When you wants write a paper



Cite

When you wants write a paper

Cite

A list of references

When you wants write a paper

A common option with \LaTeX

Cite

A list of references

When you wants write a paper

Cite

A list of references

A common option with \LaTeX

```
\documentclass{article}
\begin{document}
\title{My Article}
\author{Nobody Jr.}
\maketitle
Blablabla \cite{keyi}
\begin{thebibliography}{N}
\bibitem{key1}
...
\bibitem{keyN}
\end{thebibliography}
\end{document}
```

When you wants write a paper

A common option with \LaTeX

Organize your research!!!

Cite

A list of references

Objetives.

Main

I'll describe through **examples** how **Mendeley** and **Calibre** can help us to organize our references and to write with **LATEX**.

- Mendeley.
- Calibre.
- BibTEX.

Objetives.

Main

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I'll describe through **examples** how **Mendeley** and **Calibre** can help us to organize our references and to write with **L^AT_EX**.

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- BibT_EX.

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1 Preliminaries

2 Mini Tutorial of BibT_EX

3 Use Mendeley and Calibre with L_AT_EX

4 Summary

Outline

1 Preliminaries

- DOI
- Example 1: Get Metadata in Mendeley
- Example 2: Get Metadata in Calibre

Digital Object Identifier System



(DOI) is a character string used to uniquely identify an object.

Digital Object Identifier System



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NUMERICAL METHODS FOR SECOND-ORDER STOCHASTIC DIFFERENTIAL EQUATIONS*

KEVIN BURRAGE¹, IAN LENANE¹, AND GRANT LYTHE¹

Abstract. We seek numerical methods for second-order stochastic differential equations that reproduce the stationary density uniquely for all values of damping. A complete analysis is available for scalar, second-order equations (damped harmonic oscillators) with additive noise, where the statistics are Gaussian and can be calculated exactly in the continuous-time and discrete-time cases. A matrix equation is given for the stationary variance and correlation for methods using one Gaussian random variable per timestep. The only Runge–Kutta method with a nonsingular tableau matrix that gives the exact steady state density for all values of damping is the implicit midpoint rule. Numerical experiments, comparing the implicit midpoint rule with Heun and leapfrog methods on nonlinear equations with additive or multiplicative noise, produce behavior similar to the linear case.

Key words. damped harmonic oscillators with noise, stationary distribution, stochastic Runge–Kutta methods, implicit midpoint rule, multiplicative noise

AMS subject classifications. 60-08, 65C30

DOI: 10.1137/050646932

1. Introduction. Newton's second law of motion relates force to acceleration. Consequently, second-order differential equations are common in scientific applications in the guise of "Langevin," "Monte Carlo," "molecular," or "dissipative particle" dynamics [1, 2, 3], and the study of methods for second-order ordinary differential equations is one of the most mature branches of numerical analysis [4]. The most exciting advances in recent decades have been the development of symplectic methods, capable of exactly preserving an energy-like quantity over very long times [5], and their



Download metadata from mendeley

Example 1

- Download an article and save it in a Mendeley data base.
- Get the corresponding metadata from Mendeley.



Download metadata from mendeley

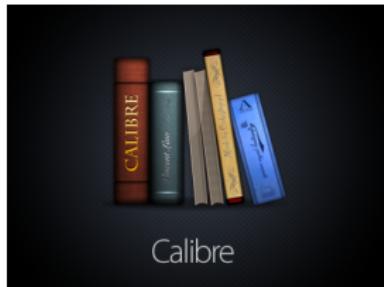


Example 1

- Download an article and save it in a Mendeley data base.
- Get the corresponding metadata from Mendeley.



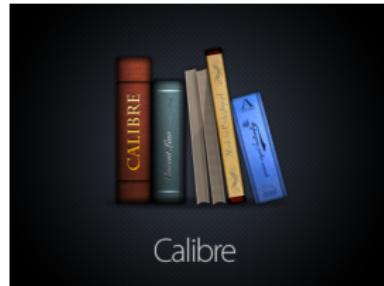
Calibre



Download metadata from Calibre

Example 2

- Use the ISBN to Get the metadata of a book.



Outline

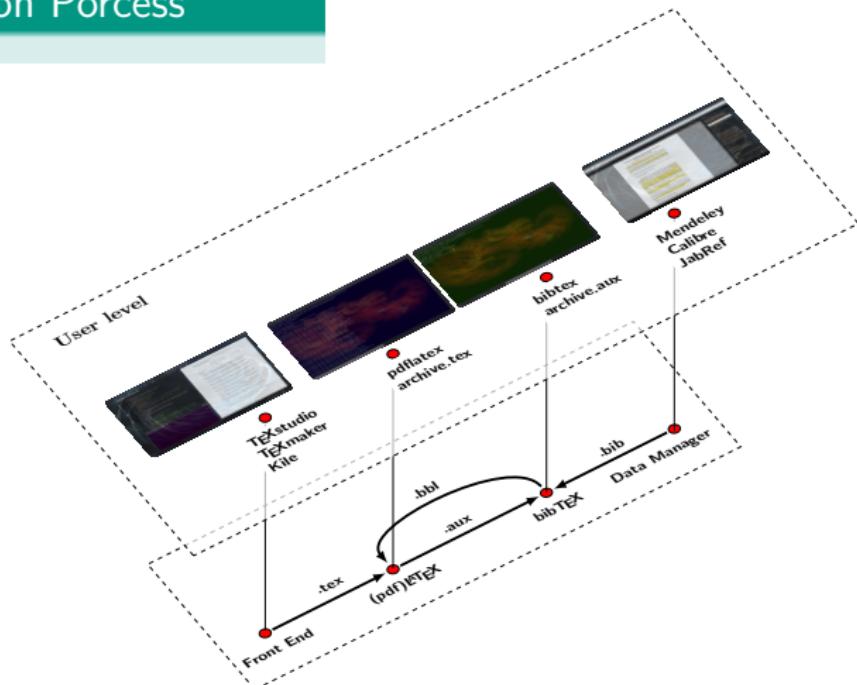
2 Mini Tutorial of Bib \TeX

- What is Bib \TeX ?
- Example 3: Generate a bib file with Mendeley
- Example 4: Generate a bib file with Calibre

What is BibTeX

Is a tool used to describe and process lists of references, mostly in conjunction with LaTeX documents.



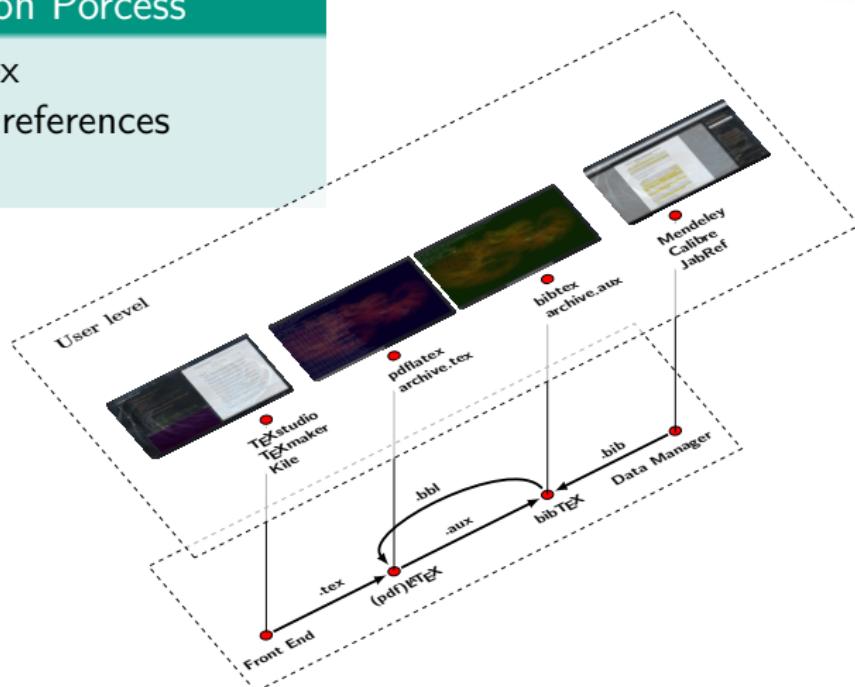


Compilation Porcess

(1) pdflatex

list of cite references

(.aux)

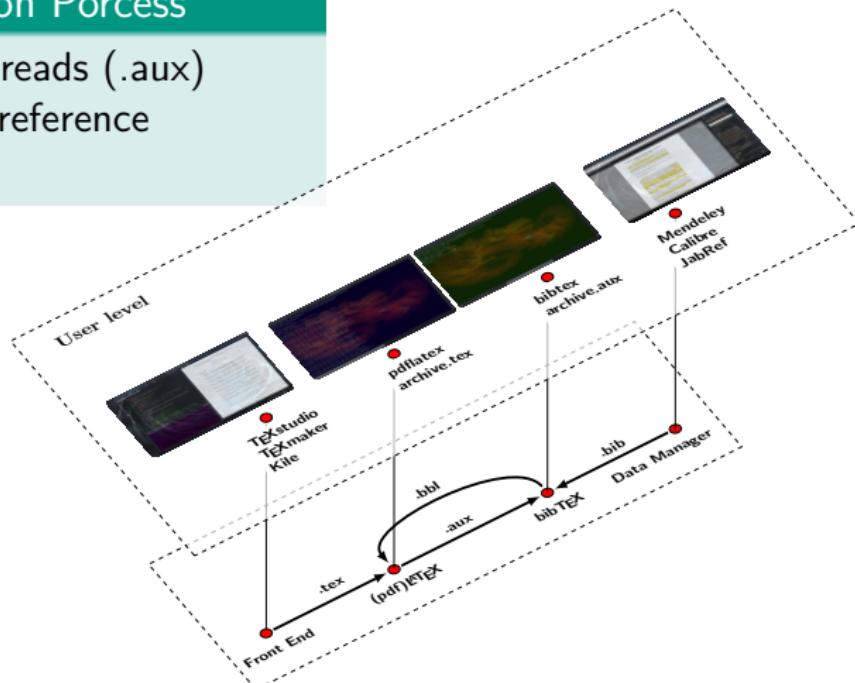


Compilation Porcess

(2) bibtex reads (.aux)

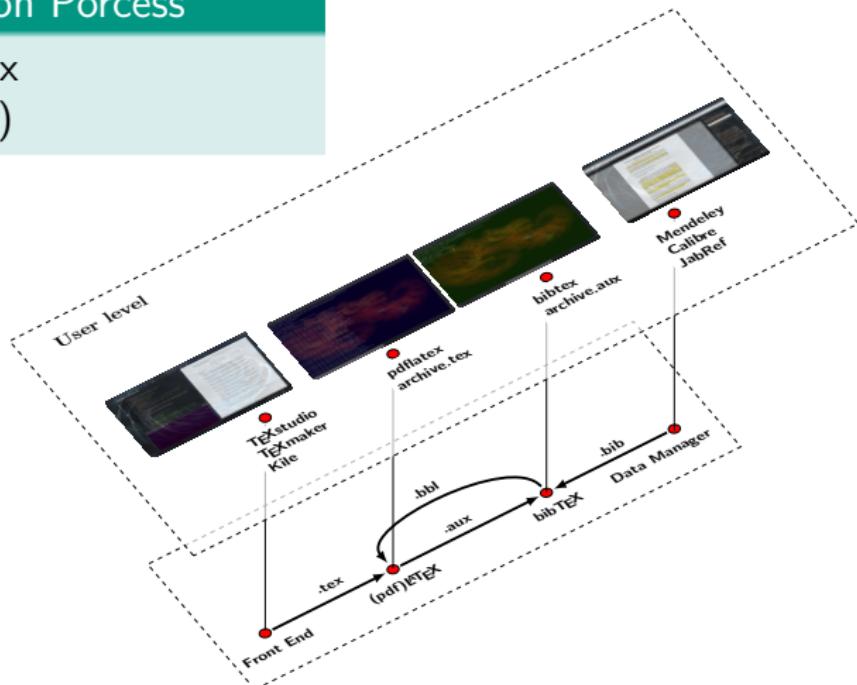
create list reference

(.bbl)



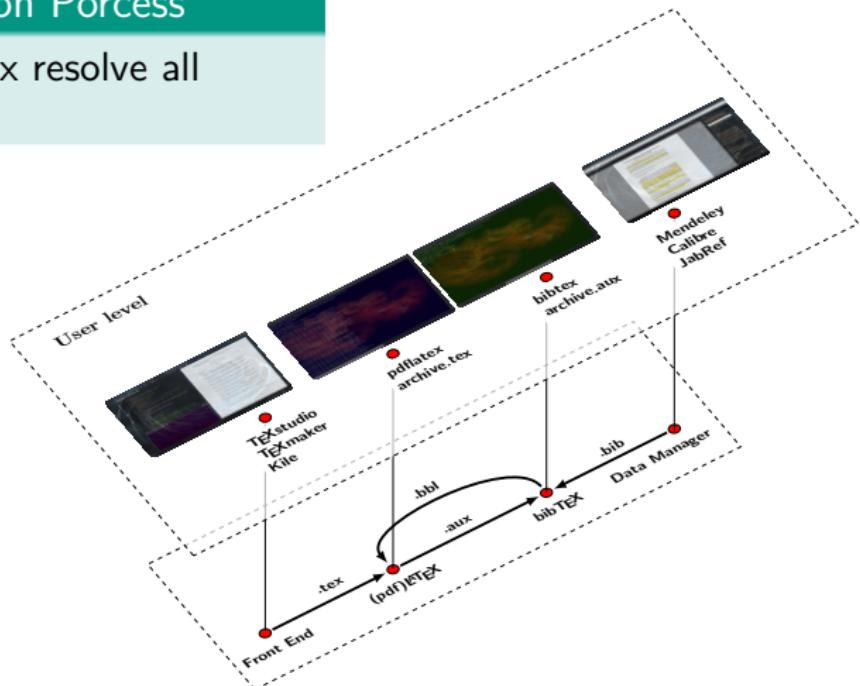
Compilation Porcess

(3) pdflatex reads (.bbl)



Compilation Porcess

(4) pdflatex resolve all references.



bib \TeX format (.bib) and bib \TeX style

Bib \TeX format:

```
@article{mrx05,  
author="X",  
Title={Something},  
publisher="nobody",  
YEAR=2005  
}
```

bib_TE_Xformat (.bib) and bib_TE_Xstyle



Bib_TE_X format:

```
@article{mrx05,  
author = "X",  
Title = {Something},  
publisher = "nobody",  
YEAR = 2005  
}
```

Article [7], Book [4], InCollection [6], InProceedings [3], Misc [5], PhdThesis [2], TechReport [1].

- [1] K. J. Turner. Scene analysis and object recognition — A survey. Technical Report 21, University of Edinburgh, Department of Machine Intelligence, July 1971.
- [2] K. J. Turner. *Computer Perception of Curved Objects*. PhD thesis, Department of Machine Intelligence, University of Edinburgh, UK, Mar. 1974.
- [3] K. J. Turner. Gateways for networking in the framework of Open Systems Interconnection. In *Proc. 7th. International Conference on Computer Communications*, pages 686–691, Sydney, Nov. 1984. ICC’84.
- [4] K. J. Turner, editor. *Guidelines for the Application of Estelle, LOTOS, and SDL*. International Telecommunications Union, Geneva, Switzerland, Jan. 1990.
- [5] K. J. Turner. SAGE translator. <http://www.cs.stir.ac.uk/>, Apr. 1996.
- [6] K. J. Turner. LOTOS. In P. Dasgupta and J. Urban, editors, *Encyclopædia of Distributed Computing*. Kluwer Academic Press, London, UK, Jan. 1998.
- [7] K. J. Turner. Realising architectural feature descriptions using LOTOS. In *Parallel Computers, Networks and Distributed Systems*, pages 1–42, Dec. 2000. In press.

bibTeXformat (.bib) and bibTeXstyle



BibTeX format:

```
@article{mrx05,  
author = "X",  
Title = {Something},  
publisher = "nobody",  
YEAR = 2005  
}
```

Article [Turner-2000e], Book [Turner-1990b], InCollection [Turner-1998a], InProceedings [Turner-1984e], Misc [Turner-1996e], PhdThesis [Turner-1974a], TechReport [Turner-1971a].

[Turner-1971a] Kenneth J. Turner. Scene analysis and object recognition — A survey. Technical Report 21, University of Edinburgh, Department of Machine Intelligence, July 1971.

[Turner-1974a] Kenneth J. Turner. *Computer Perception of Curved Objects*. PhD thesis, Department of Machine Intelligence, University of Edinburgh, UK, March 1974.

[Turner-1984e] Kenneth J. Turner. Gateways for networking in the framework of Open Systems Interconnection. In *Proc. 7th International Conference on Computer Communications*, pages 686–691, Sydney, November 1984. ICC.

[Turner-1990b] Kenneth J. Turner, editor. *Guidelines for the Application of ESTERL, LOTOS, and SDL*. International Telecommunications Union, Geneva, Switzerland, January 1990.

[Turner-1996e] Kenneth J. Turner. SAGE translator. <http://www.cs.stir.ac.uk/>, April 1996.

[Turner-1998a] Kenneth J. Turner. LOTOS. In Partha Dasgupta and Joseph Urban, editors, *Encyclopaedia of Distributed Computing*. Kluwer Academic Press, London, UK, January 1998.

[Turner-2000e] Kenneth J. Turner. Realising architectural feature descriptions using LOTOS. *Parallel Computers, Networks and Distributed Systems*, pages 1–42, December 2000. In press.

How generate bib files



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Bibfile Mendeley:

How generate bib files

Bibfile Mendeley:
For articles



How generate bib files



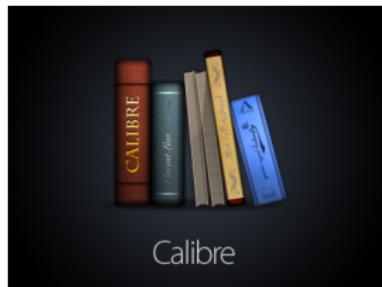
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Investigación en
Matemáticas, A.C.

CIMAT

Bibfile Calibre:

How generate bib files

Bibfile Calibre:
For Books.



General Template

BibTeX

```
\documentclass[11pt]{article}
\usepackage{cite}
\begin{document}
    \title{My Article}
    \author{Nobody Jr.}
    \date{Today}
    \maketitle
```

Blablabla \cite{Nobody06}.

```
\bibliographystyle{plain}
\bibliography{mybib}{}  
%
```

```
\end{document}
```

General Template

Bib_TE_X

Style (.bst)

```
\documentclass[11pt]{article}
\usepackage{cite}
\begin{document}
    \title{My Article}
    \author{Nobody Jr.}
    \date{Today}
    \maketitle

    Blablabla \cite{Nobody06}.

    \bibliographystyle{plain}
    \bibliography{mybib}{}\\

\end{document}
```

General Template

Bib \TeX

Database (.bib)

```
\documentclass[11pt]{article}
\usepackage{cite}
\begin{document}
    \title{My Article}
    \author{Nobody Jr.}
    \date{Today}
    \maketitle

    Blablabla \cite{Nobody06}.

    \bibliographystyle{plain}
    \bibliography{mybib}{}\\

\end{document}
```

General Template

Bib_TE_X

Bib_TE_X

```
\documentclass[11pt]{article}
\usepackage{cite}
\begin{document}
    \title{My Article}
    \author{Nobody Jr.}
    \date{Today}
    \maketitle

    Blablabla \cite{Nobody06}.

    \bibliographystyle{plain}
    \bibliography{mybib}{}\\

\end{document}
```

Outline

3 Use Mendeley and Calibre with L^AT_EX

Put all together

Citing an article

Put all together

Citing an article
Mendeley

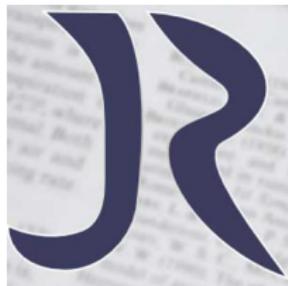


Put all together

Citing a book:

Put all together

Citing a book:
JabRef



Outline

4 Summary

Summary

Using BibT_EX

Create your
BibT_EX-File

Summary

Using BibT_EX

Create your
BibT_EX-File

```
@misc{Nobody06,  
author = "Nobody Jr",  
title = "My Article",  
year = "2006" }
```

Summary

Using BibT_EX

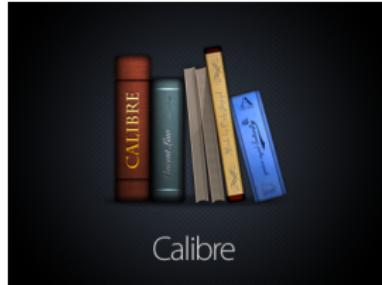
Create your
BibT_EX-File



Summary

Using BibT_EX

Create your
BibT_EX-File



Summary

Using BibT_EX

Create your
BibT_EX-File



Summary

Using BibT_EX

Create your
BibT_EX-File
LaT_EX-File

```
\documentclass{article}
\usepackage{cite}
\begin{document}
\title{My Article}
\author{Nobody Jr.}
\date{Today}
\maketitle
Blablabla \cite{Nobody06}.
\bibliographystyle{plain}
\bibliography{mybib}{}%
\end{document}
```

Summary

Using Bib \TeX

Create your
Bib \TeX -File
La \TeX -File
Compile

```
$ pdflatex myarticle.tex  
$ bibtex myarticle.aux  
$ pdflatex myarticle.tex  
$ pdflatex myarticle.tex
```

Summary

Using BibT_EX

Create your

Organize your information!!!

Bibliography

-  Morten O. Alver. *Jabref*. Nov. 2014. URL:
<http://jabref.sourceforge.net/contact.php>.
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URL: <http://calibre-ebook.com/>.
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-  Oren Patashnik. *Bibtex*. TUG. Nov. 2014. URL:
<http://www.bibtex.org/>.