

Partial Differential Equation and Image Processing

-An introduction to the BibDesk and Week Summary

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1 An introduction to BibDesk

2 Week summary

BibDesk

- BibDesk is an open-source reference management software package for Mac OS X, used to manage bibliographies and references when writing essays and articles.
- BibDesk offers a front-end for creating, editing, managing, and searching BibTeX databases.
- BibDesk's services will simplify using your bibliography in other applications and are particularly well suited for L^AT_EX users.

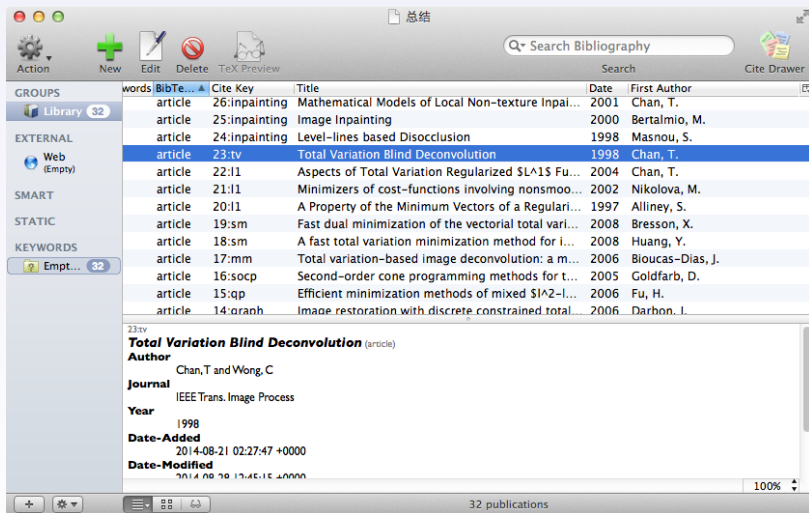
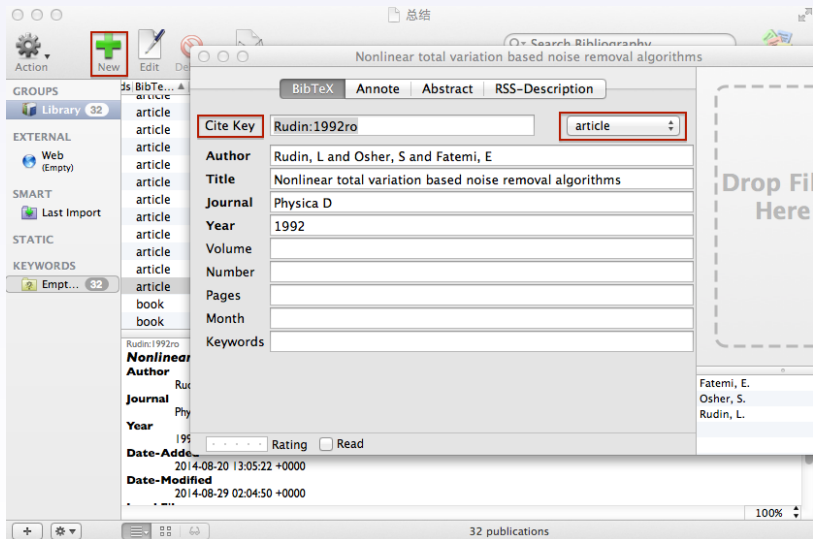


Figure : Screen shot of BibDesk (Version 1.6.3)

How to use the BibDesk



Publication Editor

Handbook of Mathematical Methods in Imaging

BibTeX Annote Abstract RSS-Description

Cite Key Scherzer:2011im book

Title Handbook of Mathematical Methods in Imaging

Publisher Springer Science+Business Media, LLC

Year 2011

Author

Editor Otmar Scherzer

Volume

Number

Series

Address

Edition

Month

Keywords

Rating Read

Handbook of Mathematical Methods in Imaging

Otmar Scherzer
Editor

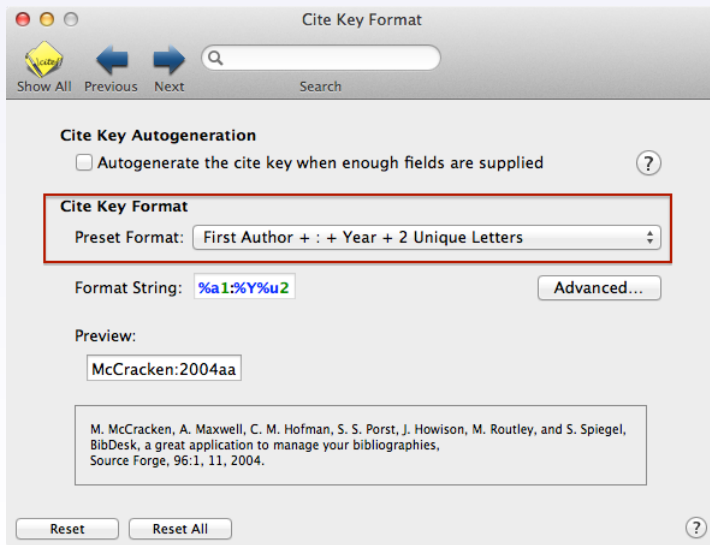
Handbook of Mathematical Methods in Imaging

Springer

Handbook of Mathematic...

Scherzer, O.

Cite Key



Notice

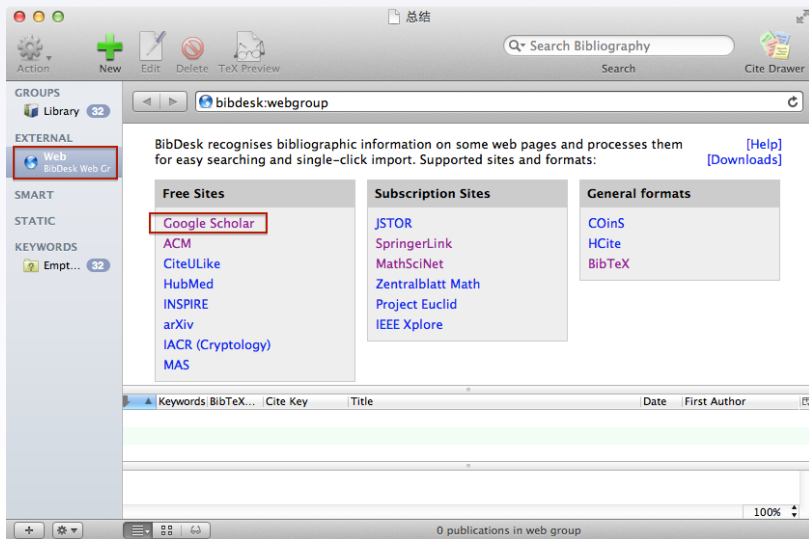
- Formatting Names: Author and editor lists in BibTeX files are written as a single string using the word “and” as a separator between names, like this example:

“Adam Maxwell and Michael O. McCracken”

- If a name has two parts, commas are used to determine which parts are the first, middle and last names. For example, the following two names are the same:

“Adam Maxwell” and “Maxwell, Adam”

Web search



Web search

GROUPS
Library 33

EXTERNAL
Web A online 10

SMART
Last I... 1

STATIC

KEYWORDS
Empt... 33

Search Bibliography

Search Cite Drawer

http://scholar.google.com/scholar?hl=en&q=A+nonlinear+primal-dual+method+for+total+variation-based+image+re

Google A nonlinear primal-dual method for total variation-based image restor

Scholar About 996 results (0.04 sec) Any time

A nonlinear primal-dual method for total variation-based image restoration
TF Chan, GH Golub, P Mulet - SIAM Journal on Scientific Computing, 1999 - SIAM
We present a new method for solving total variation (TV) minimization problems in **image restoration**. The main idea is to remove some of the singularity caused by the non-differentiability of the quantity $|\nabla u|$ in the definition of the TV-norm before we apply a ...
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A nonlinear primal-dual method for total variation-based image restoration ucla.edu (PS)
TF Chan, GH Golub, P Mulet - ICAOS'96, 1996 - Springer
Abstract We present a new method for solving total variation (TV) minimization problems in **image restoration**. The main idea is to remove some of the singularity caused by the non-differentiability of the quantity $|\nabla u|$ in the definition of the TV-norm before we apply a ...
Cited by 87 Related articles All 6 versions Save More

An iterative regularization method for total variation-based image restoration rush.edu (PDF)
S Osher, M Burger, D Goldfarb, J Xu, W Yin - Multiscale Modeling & ..., 2005 - SIAM
... Imaging 6:4, 697-708. (2012) On the Convergence of **Primal-Dual Hybrid Gradient** ... 7, 075003.
(2014) **Uncertainty-aware fusion by the similarity measure based undirected method** IEEE

Keywords	BibTeX...	Cite Key	Title	Date	First Author	Seco...
Import	article	chan1999n...	A nonlinear primal-dual method for total variati...	1999	Tony F Chan	Gene F
Import	incolle...	chan1996n...	A nonlinear primal-dual method for total variati...	1996	Tony F Chan	Gene F
Import	article	osher2005i...	An iterative regularization method for total varia...	2005	Stanley Osher	Martin
Import	article	vogel1996i...	Iterative methods for total variation denoising	1996	Curtis R Vogel	Mary E
Import	article	hintermulle...	The primal-dual active set strategy as a semism...	2002	Michael Hintermüller	Kazufu
Import	article	beck2009fast	A fast iterative shrinkage-thresholding algorithm...	2009	Amir Beck	Marc T
Import	article	wann2008new	A new alternating minimization algorithm for tot...	2008	Yilun Wang	Junfan

Web search



Scholar Settings

[Save](#)[Cancel](#)[Search results](#)[Languages](#)[Library links](#)

Collections

- ☒ Search articles (☒ include patents).
- ☐ Search case law.

Results per page

10



Google's default (10 results) provides the fastest results.

Where results open

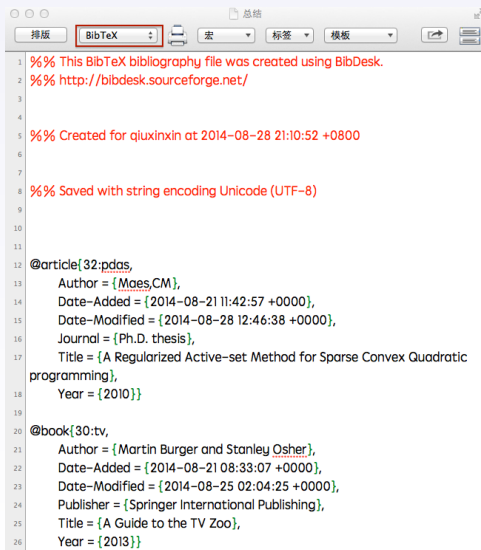
- ☒ Open each selected result in a new browser window.

Bibliography manager

- ☐ Don't show any citation import links.
- ☒ Show links to import citations into BibTeX.

- ❶ Export the file as BibTex format
 - ❷ Run the tex-file once
 - ❸ Run the bib-file once
 - ❹ Run the tex-file twice
- The cite key of bib-file must be consistent with the citation-name of tex-file
 - More information can be found in the website <http://bibdesk.sourceforge.net/>

Export BibTex



```
1 %% This BibTeX bibliography file was created using BibDesk.
2 %% http://bibdesk.sourceforge.net/
3
4
5 %% Created for qjuxinxin at 2014-08-28 21:10:52 +0800
6
7
8 %% Saved with string encoding Unicode (UTF-8)
9
10
11
12 @article{32:pdas,
13   Author = {Maes,CM},
14   Date-Added = {2014-08-21 11:42:57 +0000},
15   Date-Modified = {2014-08-28 12:46:38 +0000},
16   Journal = {Ph.D. thesis},
17   Title = {A Regularized Active-set Method for Sparse Convex Quadratic
18   programming},
19   Year = {2010}}
20
21 @book{30:tv,
22   Author = {Martin Burger and Stanley Osher},
23   Date-Added = {2014-08-21 08:33:07 +0000},
24   Date-Modified = {2014-08-25 02:04:25 +0000},
25   Publisher = {Springer International Publishing},
26   Title = {A Guide to the TV Zoo},
27   Year = {2013}}
```

Week summary

- Reading the matlab code of the paper
- Searching and organize the papers