

## A Guide for Authors

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## WELCOME FROM THE EDITORS IN CHIEF

We are delighted that you are considering joining the circle of authors of *Wiley Interdisciplinary Reviews: Computational Statistics (WIREs: Computational Statistics)*. This is an important and timely endeavor that will do much to assist the communication of high-quality information in our field.

As Editors in Chief, our goals are to maximize the quality and relevance of the publication's content and to ensure, with the help of the international advisory board (see page 6), that we continue to receive world-class submissions that will keep *WIREs: Computational Statistics* in the forefront of the field. Ultimately, our success depends on our authors. If you accept our invitation, please study the guidelines in this document, follow the prescribed procedures for manuscript preparation and delivery, and adhere as closely as possible to your delivery deadlines.

*WIREs: Computational Statistics* is an online serial publication that will evolve into a fully integrated, dynamic reference source. As the major topics are fleshed out with your contributions and those of other notable scholars, John Wiley & Sons intends to capture this content in a comprehensive print reference work, the *Wiley Encyclopedia of Computational Statistics*. We believe this novel dual-format publication will be an exciting and important contributor to research and scholarly discourse in our field.

Thank you again for your consideration. We look forward to a long and fruitful relationship.

Edward J. Wegman  
Yasmin H. Said  
David W. Scott

Editors in Chief  
*Wiley Interdisciplinary Reviews: Computational Statistics*

## CONTACT INFORMATION

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E-mail: [compstats@wiley.com](mailto:compstats@wiley.com)

For questions concerning the scope of your contribution or other issues of scientific substance, please contact:

**Dr. Yasmin H. Said**  
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## AUTHORS' CHECKLIST

### AS YOU PREPARE TO WRITE YOUR ARTICLE

Have you:

- studied the instructions in your letter of acceptance confirmation concerning the type, topic, and scope of your article?
- taken note of the specified delivery date for your article? (It is important that you adhere to this, or let us know if you will need more time.)
- studied the complete article list (see Appendix I) to get a sense of the overall scope of the journal?
- studied the step-by-step instructions in this document (see Section 4) concerning the preparation of your article?
- studied the detailed guidelines in this document on style and format of figures, references, etc. (see Sections 4.5 and 4.6)?
- downloaded the WIREs article template and read the instructions in its margins?

### AS YOU PREPARE TO SUBMIT YOUR ARTICLE

Have you:

- reviewed the online submission instructions (see Section 5)?
- included a brief Abstract, Related Articles, and Further Reading/Resources list?
- included numbered in-text citations for the references?
- provided bibliographic references in the specified format outlined in this Guide (see Section 4.5.6)?
- provided figures as separate files rather than embed them in your article template (see Section 4.6)?
- clearly numbered and labeled all illustrations and figures, and provided legends for each?
- obtained and sent to us all necessary permissions (including permission for electronic publication) for any tables, figures, or text reproduced from previously published material? To acquire permissions, use the *Permission Request Form* (Appendix II of this guide) or request permission from registered publishers online, via the Copyright Clearance Center's "Rightslink" page (<http://www.copyright.com>); please keep copies of all correspondence for your records.
- provided the names and contact information (including e-mail addresses) for 4–5 potential reviewers you feel are familiar with your field and could review your article?
- filled out the Contributor Agreement (sent in the letter of acceptance confirmation), printed, signed, and scanned it for uploading during submission? (To fax or mail, please contact [compstats@wiley.com](mailto:compstats@wiley.com).)

## 1. BACKGROUND: THE WILEY INTERDISCIPLINARY REVIEWS

The *Wiley Interdisciplinary Reviews* (WIREs) represent a major new publishing franchise for John Wiley & Sons. Their editorial goal is to emphasize the importance of interdisciplinarity in science and to support cross-disciplinary collaborative efforts in research and education. The WIREs are not journals *per se*; rather, they are hybrid publications that combine the most powerful features of traditional reference works and review journals in a compelling format designed to exploit the full potential of the online medium. The key features of the WIREs are as follows.

- They focus on high-profile, well-funded research areas at the interfaces of the traditional disciplines.
- The WIREs emphasize collaborative and integrative approaches to scientific research, presenting cutting-edge science from a multidisciplinary perspective.
- They will be launched as serial publications so that they can benefit from full abstracting and indexing and, especially, impact factors.
- Meticulous conceptual development of each of the WIREs will result in a highly structured, comprehensive coverage of the field in question.
- The WIREs will adopt a common “templated” editorial format and structure that will maximize quality and consistency within and between the works.
- To raise their visibility and drive online usage, the WIREs will initially be made available *free of charge* to institutional subscribers (and hence to individual end-users at academic, government, and corporate institutions).
- This unique editorial concept is designed to promote author participation, long-term loyalty, and community spirit in interdisciplinary research.

## 2. WIREs COMPUTATIONAL STATISTICS

### 2.1 AIMS OF THE PUBLICATION

*WIREs Computational Statistics* is a major new scientific publication that will support the information needs of researchers in this field and help to shape its future development. Its goals are to

- present the current state of the art of Computational Statistics through an ongoing series of commissioned reviews written by leading researchers
- capture the crucial interdisciplinary flavor of this field by including articles that address the key topics from the differing perspectives of statistics and computing, and including potential application areas in technology, biology, physics, geography, and sociology
- capture the rapid development of Computational Statistics through a systematic program of content updates
- encourage new participation in this field by presenting its achievements and challenges in an accessible way to a broad audience.

*WIREs Computational Statistics* will be fully indexed in the major abstracting services, and will be assigned an impact factor in the same way as a journal. Unlike the review journal literature, however, *WIREs Computational Statistics* will offer a comprehensive, coherent, well structured coverage of the field. It will also be updated in a systematic fashion so that its content remains as current as possible.

## 2.2 STRUCTURE AND SCOPE

The following top-level category structure is proposed for *WIREs Computational Statistics*:

- Applications of Computational Statistics
- Artificial Intelligence
- Biostatistics and Bioinformatics
- Computational Bayesian Methods
- Computationally Intensive Statistical Methods
- Computer Science Methods
- Data Mining
- Data Structures
- Data Visualization
- Databases
- Machine Learning
- Modeling and Simulation
- Numerical Analysis
- Optimization
- Statistical Methods

The Editors have developed the *WIREs Computational Statistics* article list based on this structure. For a current list of article titles, please see Appendix I on Page 13.

## 2.3 READERSHIP

*WIREs Computational Statistics* will be designed in such a way that different subsets of the content will be useful to upper-level undergraduate and postgraduate students, to teaching and research professors in academic programs, to scientists and research managers in industry; moreover, *WIREs: Computational Statistics* will include review and background information useful to scientists entering the field of Computational Statistics.

## 3. EDITORIAL BOARD

### 3.1 EDITORS IN CHIEF

***Edward J. Wegman, Bernard J. Dunn Professor of Data Sciences and Applied Statistics, George Mason University***

Professor Wegman received his B.S. in mathematics degree from St. Louis University in 1965. He received the M.S. and Ph.D. degrees in mathematical statistics from the University of Iowa, the latter degree in 1968. Subsequently, he spent 10 years on the faculty of the world-class Department of Statistics at the University of North Carolina. Dr. Wegman's early career focused on the development of aspects of the theory of mathematical statistics. In 1978, Professor Wegman went to the Office of Naval Research (ONR) where he was the Head of the Mathematical Sciences Division. In this role, he had responsibility Navy-wide for basic research programs in applied mathematics, statistics and probability, systems theory, operations research, discrete mathematics, communication theory, and numerical analysis and computational architectures. In addition, he was responsible for a variety of cross-disciplinary areas including such projects as mathematical models of biological intelligence, mathematical methods for remote sensing, and topological methods in chemistry. Dr. Wegman came to George Mason University with an extensive background in both theoretical statistics and

computing technology, with an extensive knowledge of the considerable data analytic problems associated with large scale scientific and technical databases, and with a strong motivation to develop the computational and methodological tools to address these problems. In 1986, he launched the Center for Computational Statistics and developed the M.S. in Statistical Science degree program. He has been involved with the development of the Ph.D. program in Computational Sciences and Informatics at George Mason University. Dr. Wegman served in national office in the Institute of Mathematical Statistics, the American Statistical Association and the American Association for the Advancement of Science. He has published more than 180 papers and nine books. He is past Theory and Methods editor of the Journal of the American Statistical Association, has served as Chair of the NRC's Committee on Applied and Theoretical Statistics, and is on the Board of Directors of the American Statistical Association. His professional stature has been recognized by his election as Fellow of the American Statistical Association, the American Association for the Advancement of Science, the Washington Academy of Science and the Institute of Mathematical Statistics. In addition, he was elected as a Senior Member of IEEE. Dr. Wegman has been elected to membership in the International Statistical Institute and the Research Society on Alcoholism. Dr. Wegman has also received numerous awards including the Navy's Meritorious Civilian Service Medal, the Army Wilks Medal, the American Statistical Association Founder's Award, and the University of Iowa Distinguished Alumni Achievement Award. Dr. Wegman is the Bernard J. Dunn Professor of Data Sciences and Applied Statistics, the Founding Chairman of the Department of Statistics, and the Director of the Center for Computational Data Sciences.

**Yasmin H. Said, Ruth L. Kirschstein National Fellow, George Mason University.**

Dr. Yasmin H. Said is a Visiting Fellow at the Isaac Newton Institute for Mathematical Sciences at the University of Cambridge in England and is a National Research Fellow from the National Institutes of Health. She earned her A.B. in pure mathematics, her M.S. in computer science and information systems, and Ph.D. in computational statistics. She does alcohol modeling, agent-based simulation modeling, social network analysis, text, image, and data mining, and major public policy work trying to minimize negative acute outcomes, including HIV/AIDS, related to alcohol consumption. Dr. Said is also the Statistical Methodology Director of the Innovative Medical Institute, LLC, and Co-Director of the Center for Computational Data Sciences in the College of Science at George Mason University. She is the editor of *Computing Science and Statistics*, is an associate editor of the journal, *Computational Statistics and Data Analysis*, serves on the board of the Washington Statistical Society, and serves on the American Statistical Association Presidential Task Force on Science Policy. Dr. Said is an elected member of the International Statistical Institute, an elected member of the Research Society on Alcoholism, and an elected member of Sigma Xi, the Scientific Research Society. She is currently writing a book, *Controversies in Global Warming* and another, *Statisticians of the Twentieth Century*. She has published a book, *Intervention to Prevention: A Policy Tool for Alcohol Studies*. With colleagues she has developed testimonies on global warming for the House Committee on Energy and Commerce and to the House Subcommittee on Oversight and Investigations. She has also taught probability and statistics at The Johns Hopkins University in Baltimore, MD.

**David W. Scott, Noah Harding Professor of Statistics, Rice University.**

Professor Scott earned his B.A. in electrical engineering and mathematics in 1972 and his M.A. and Ph.D. mathematical sciences in 1976 all earned at Rice University. Working with researchers at Rice, Baylor College of Medicine, and elsewhere, Professor Scott has published numerous practical applications in fields of heart disease, remote sensing, signal processing, clustering, discrimination, and time series. With other members of the department, Professor Scott has worked with the former Texas Air Control Board on ozone forecasting, and has collaborated with Rice Environmental Engineers on massive data understanding and visualization. In the field of nonparametric density estimation, Professor Scott has provided fundamental understanding of many estimators including the histogram, frequency polygon, averaged shifted histogram, discrete penalized-likelihood estimator, adaptive estimators, oversmoothed estimators, and modal and robust regression

estimators. In the area of smoothing parameter selection, he has provided basic algorithms including biased cross-validation and multivariate cross-validation. Professor Scott is Fellow of the American Statistical Association, the Institute of Mathematical Statistics, the American Association for the Advancement of Science, and an elected member of the International Statistics Institute. He received the ASA Don Owen Award in 1993. He is the author of the textbook "Multivariate Density Estimation: Theory, Practice, and Visualization (John Wiley & Sons, 1992). He has served as a member of the NRC's Committee on Applied and Theoretical Statistics and has served as editor of the Journal of Computational and Graphical Statistics. He is past editor (Wolfgang Härdle, co-editor) of Computational Statistics, which is published by Physica-Verlag, and recently on the editorial board of Statistical Sciences. He has served as Associate Editor of the Journal of the American Statistical Association and the Annals of Statistics. He is currently listed in Who's Who in America. He has held several offices in the Statistical Graphics Section of the American Statistical Association, including Program Chair and Section Chair.

### 3.2 EDITORIAL ADVISORY BOARD

**Jianqing Fan** – USA: Princeton University  
**Jerome H. Friedman** – USA: Stanford University  
**Michael Friendly** – Canada: York University  
**Genshiro Kitagawa** – Japan: The Institute of Statistical Mathematics  
**Carlo N. Lauro** – Italy: University of Naples "Federico II"  
**Jae C. Lee** – Korea: Korea University  
**Xiao-Li Meng** – USA: Harvard University  
**James L. Rosenberger** – USA: Pennsylvania State University  
**Luke Tierney** – USA: University of Iowa  
**D. Michael Titterton** – United Kingdom: University of Glasgow  
**Antony Unwin** – Germany: University of Augsburg

## 4. PREPARING YOUR MANUSCRIPT

### 4.1 REVIEW YOUR DESIGNATED ARTICLE TOPIC AND SCOPE DESCRIPTION

Please review your designated topic and any additional scope notes provided in your letter of invitation. If you have any questions or concerns about the topic or scope, please contact us immediately for further advice. One month before your article is due, we will send an email asking you to provide us with an outline for your article. This is to ensure that your ideas for the scope of the article are in line with the editors'.

### 4.2 STUDY THE COMPLETE ARTICLE LIST

Appendix I is a current list of planned article titles/subjects, grouped by topic/subtopic. Please study this list to understand the overall scope of *WIREs Computational Statistics* and to see how your article fits into the larger organizational scheme.

### 4.3 VERIFY YOUR DESIGNATED ARTICLE TYPE

*WIREs Computational Statistics* articles will be assigned a specific article type based on their intended level and readership. Each article type will have an associated template that specifies its length, overall structure, and style; authors will be required to use the appropriate template when preparing their articles. The following article types are included in *WIREs Computational Statistics*:

#### OPINIONS

Opinions provide a forum for thought-leaders, hand-picked by the editors, to provide a more individual perspective on the field in question.

**Average extent = 2,000-4,000 words, ≤ 5 figures/tables, 30-60 references, ~5 pages.**

#### OVERVIEWS

Overviews will provide a broad and relatively non-technical treatment of important topics at a level suitable for advanced students and for researchers without a strong background in the field.

**Average extent = 5,000-8,000 words, 10-16 figures/tables, 50-100 references, 10-14 pages.**

#### ADVANCED REVIEWS

Advanced Reviews, aimed at researchers and advanced students with a strong background in the subject, will review key areas of research in a citation-rich format similar to that of leading review journals.

**Average extent = 4,000-6,000 words, ≤ 10 figures/tables, 50-75 references, ~9 pages.**

#### FOCUS ARTICLES

Focus articles are short articles, sometimes included within a larger article, that describe specific real-world issues, examples, implementations, etc. These articles will be technical in nature.

**Average extent = 2,500-4,000 words, ≤ 7 figures/tables, 40-60 references, ~5 pages.**

### 4.4 USE THE TEMPLATE

A Word and LaTeX template for writing your article are available in your ScholarOne Manuscripts Author Center. Please use one of these templates to prepare your article as this will help ensure that it will meet the necessary requirements. In the Word template, consult the 'Comment' notes in the right-hand margin for an explanation of each section in the article. If at any time you do not see these Comments, select View → Print Layout. Further help is available by emailing [compstats@wiley.com](mailto:compstats@wiley.com).

### 4.5 REFER TO THE FOLLOWING INSTRUCTIONS ON TEXT FORMAT AND STYLE

#### 4.5.1 VERSIONS OF THE MANUSCRIPT

Text should be in DOC (preferred) or RTF format; TeX/LaTeX files are also acceptable.



The manuscript you submit should be the final version that you wish to be sent for peer review. Please do not send partial versions or drafts, unless we specifically request that you do so.

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#### 4.5.2 ABSTRACT

Please provide us with a concise ( $\leq 250$  words) abstract for your article. This is particularly important for the online version of the publication. Note that you will also be asked to copy the abstract into ScholarOne/Manuscript Central, the online article submission system, for use in corresponding with potential peer reviewers.

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#### 4.5.3 HEADING STRUCTURE

A maximum of three levels of headings will be used in *WIREs Computational Statistics*. Do not use acronyms in headings. Do not use the heading *Introduction*. The material that immediately follows the Abstract is the introduction, without a heading. Do use each level of heading uniformly throughout the manuscript. Do create headings that:

1. help the reader find information quickly;
2. are descriptive yet specific;
3. are compatible in phrasing and style; and
4. are concise (less than 50 characters).

---

#### 4.5.4 SIDEBARS

If any are appropriate, you are encouraged to include sidebars (“boxed” information that is relevant to but separate from the main text), especially to highlight contemporary interdisciplinary themes. Each sidebar should be a maximum of 250 words. Do not include more than two sidebars.

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#### 4.5.5 NOTES

While footnotes are generally discouraged in scientific publications, the template will allow you to create them. You should use these notes sparingly and make every effort to include necessary information in the main body of text.

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#### 4.5.6 REFERENCE LIST

The reference list at the end of your article provides substantiating references for factual statements in your main text. Please follow these guidelines:

- Each article cited in the reference list must have an accompanying numerical in-text citation (e.g. “It has been demonstrated experimentally<sup>5</sup> that...”). The references should be numbered and listed in the order in which they are cited in the text, *not* in alphabetical order.
- Please format your reference list in accordance with the style used to cite references in PubMed (see examples below).
- For journal articles where there are more than ten authors of a paper, list the first ten authors’ names followed by *et al.* For each author listed, supply all initials and last name.

- For a book, give the complete title, edition (if other than first), the publisher and city, the year of publication, and the page number(s). Please also give inclusive pagination (include the first and last page numbers of a paper), to indicate to the reader whether the paper is a long or a short one.
- References in the bibliography should be numbered.
- When citing a specific passage, table, or figure in a print reference, give the exact page number where the item appears; for example, "Reference 11, p. 196."
- Should you wish to use Endnote, please follow the style of either BioMed Central journals or *Epilepsy Currents*.

Many publishers are now assigning a unique Digital Object Identifier (DOI) to journal articles, book chapters, etc. This identifier, once assigned, persists through the lifetime of the object and can be used to find the object on the Internet, even if it is moved to another URL. See the URL [www.doi.org](http://www.doi.org) for more information. If a DOI is assigned to the material that you cite, include the DOI in the reference.

Some sample references in the correct format follow:

#### SAMPLE REFERENCE FOR AN ARTICLE IN A JOURNAL

Rebetez M. Public expectation as an element of human perception of climate change *Climatic Change* 2006, 32:495-509.

#### SAMPLE REFERENCE FOR AN ARTICLE IN AN EDITED BOOK

Meyer WB. Americans and their weather. Oxford University Press, Oxford, 2000, 278.

#### SAMPLE REFERENCE FOR AN ARTICLE IN A CONFERENCE PROCEEDINGS

Boswell DA, Andrews EB. Managing Urbanization. In Harris, F, ed. *Global Environmental Issues*. John Wiley & Sons, Chichester; 2004 153-196.

#### SAMPLE REFERENCE FOR A WEBSITE

<http://www.cdc.noaa.gov/ENSO/enso.current.html> (accessed July 3 2008)

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#### 4.5.7 FIGURE CAPTIONS/TABLES

Figure captions and tables should be included at the end of your manuscript. Do not embed them within the text, and do not submit them as separate files. You will also be asked to copy the figure captions into the ScholarOne/Manuscript Central online submission system when you load the image files for your figures.

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#### 4.5.8 FURTHER READING/RESOURCES

Many readers will use *WIREs Computational Statistics* as a first reference source to orient themselves in the subject. The purpose of the further reading/resources list is to provide additional sources of general information, should they wish to inquire further. If you are aware of books, articles, or academic websites that may be useful to the reader and do not appear in your reference list, you may add a separate list of these after the reference list. Recent journal articles may also be included if they are not too specialized. If you wish, you

may comment on the references in this section. References in the further reading/resources list are not to be numbered, but otherwise should follow the style outlined for bibliographic references.

---

#### 4.5.9 RELATED ARTICLES

Related articles are other *WIREs Computational Statistics* articles that will serve as valuable 'see also' links for readers. Please select up to 3 article titles from the list provided (Appendix I and also linked to the Word template) and add these to the table at the end of the article template.

### 4.6 REFER TO THE FOLLOWING INSTRUCTIONS ON PREPARATION OF FIGURES

It is essential that your artwork be submitted simultaneously with your text and that it be complete and in the correct format. Like the text, artwork goes through several production stages before it is placed onto a page, and it travels separately from the text. **Upload each figure as a separate image file.** Some detailed preparation guidelines are given below.

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#### 4.6.1 FIGURE PREPARATION AND FORMATTING

- All artwork should be viewable through a freely available plug-in.
- Cite all figures in the text (e.g., "see Fig. 1") and save each figure separately. Do not embed figures in the text or include captions in figures. Label figures using 8-point Helvetica regular or Times Roman fonts; for subscripts and superscripts use a 6-point font. Use of full-color figures is encouraged, and you will *not* be charged for their use.
- Create line drawings using Illustrator, Freehand, Canvas, CorelDraw, or Adobe Photoshop, and save as an EPS or TIF file. **Line drawings must be a minimum resolution of 600 dpi.** The following programs are *not* acceptable as art-rendering tools: MacDraw, PowerPoint, ClarisWorks, Harvard Graphics, Freelance, Persuasion, Paintbrush, Micrografix Drawing, Word, Excel, FrameMaker, or Ventura.
- Halftones (photographs) should be saved as TIF files **with a minimum resolution of 300 dpi.** For color figures, convert from RGB to CMYK. The following file formats are *not* acceptable: BMP, WMF, JPEG, and GIF.
- For screen captures, select RGB or Index mode; capture at 100% of image size. Save image as a PCX, TIF, or BMP file, with a minimum resolution of 72 or 96 dpi.

*Submitting figure files that do not conform to these standards may delay publication of your article.*

---

#### 4.6.2 ART SIZING

Be consistent in the use of line weight and type style. All figures should be of proportionate size with one another. If figures must be reduced, remember that the type will also be reduced, so it should be created proportionately so that it is clearly readable at the smaller size. The ideal final type size is 8 to 9 points.

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#### 4.6.3 LINE WEIGHTS

Use 0.5 to 0.75 point as the basic line weight for drawing, with heavier or lighter line weights for emphasis and clarity according to the following scheme (do not use "hairline" rules, as they do not reproduce well):

- Graph axes: 0.5 point (also used for boxes in flow diagrams and to show flow or direction lines)
- Graph borders: 0.75 point.

#### 4.7 ACQUIRE PERMISSION FOR ALL PREVIOUSLY PUBLISHED MATERIALS

You must have permission to use any material from a copyrighted source. Redrawing an illustration is not enough—even if you use someone’s illustration only as a basis for your own, you must obtain permission to make a new version. *It is your responsibility as the author to obtain permission to use copyrighted materials in your article.* You must either write to the copyright owner with a request for permission (using the *Permission Request Form*, Appendix II of this Guide) or apply for permission online via the Copyright Clearance Center’s “Rightslink” page (<http://www.copyright.com>). Make sure to apply for print *and* electronic rights. Please let us know if you are unable to obtain permission for electronic delivery. When only a small amount of material is to be used, granting of permission is usually a formality, but publishers need to know how much will appear. A few publishers charge a fee for granting such permission; this fee can usually be negotiated, but payment of the fee is your responsibility. *John Wiley & Sons will not pay permissions fees on your behalf.* If you do not wish to pay a particular permissions fee, you may prefer to modify your article so that the copyrighted material is not required.

Please include the necessary credit lines in the appropriate places in your article and send us the completed permission request forms when you submit your manuscript. The language should be the exact language used by the copyright owner, or, if nothing is specified, should include the title, author’s name, previous publisher, and the date of copyright. Since credit lines are part of the manuscript, it is your responsibility to supply them. Credit lines will often accompany figures and illustrations; they should be included at the appropriate place in the figure legend or text.

#### 4.8 REFER TO THE FOLLOWING INSTRUCTIONS REGARDING MULTIMEDIA ITEMS

You may wish to include multimedia elements (such as video clips or animations) in your article. The following general rules apply:

- The item should be in a popular media format that can be played with freely available software on both PCs and Macs (e.g., Quicktime (\*.mov) or generic Windows media player formats (\*.wmv or \*.mpg)).
- The file size should be limited to <10 megabytes.
- The item must of adequate quality for web publication.
- The item must genuinely add scientific or educational value to the material.

All items must have a caption and, where necessary, a permission statement backed up by a formal permission letter. Multimedia materials cannot be uploaded on the ScholarOne/Manuscript Central submission site, but must be emailed separately to [compstats@wiley.com](mailto:compstats@wiley.com).

### 5. ONLINE SUBMISSION INSTRUCTIONS

Articles commissioned for *WIREs Computational Statistics* will be submitted and peer-reviewed using the ScholarOne Manuscripts article management system. When you were invited to contribute an article, a user

account was created for you. If you do not know your User ID and/or Password, you can use the 'Password Help' function on the log in page at <http://mc.manuscriptcentral.com/compstats>. To submit your manuscript online, log in and click on the 'Author Center' icon to begin your submission. Detailed instructions on using ScholarOne Manuscripts can be found by clicking the 'User Tutorials' button in the 'Resources' box on the right-hand side of the log in page.

**Please be sure to study the instructions given at the site carefully**, and then let the system guide you through the submission process. You will be able to exit and re-enter the system at any stage before finally submitting your work. All submissions are kept strictly confidential. You can log in periodically and check your Author Center to monitor the movement of your manuscript through the review process.

## 6. WHAT HAPPENS TO YOUR MANUSCRIPT

### 6.1 REVIEW AND REVISION

Our editorial process starts with the review of your manuscript by qualified experts in the field and by the *WIREs Computational Statistics* editors. We will pass reviewers' comments on to you and request that you make any necessary changes. In addition, we will discuss with you any editorial changes that may be necessary.

In some cases the reviewers will have no comments, and the manuscript will be processed for composition. In other cases, reviewers' and our own editorial comments will give rise to further correspondence. The Editors reserve the right to cut, to request more information from the author, to revise, and in some cases, to add publicly available material. If the Editors' changes are extensive, you will have an opportunity to review the changes before the manuscript is sent for production.

### 6.2 GALLEY PROOFS

In due course you will receive the galley proofs. By this point we will have discussed any major changes with you, but smaller changes are sometimes made in the editorial office as we proceed. At this stage, you may still make any corrections of typographical errors that are necessary (but not changes in style or content). Changes at the galley stage are costly and are properly reserved for correction of printer's errors. Any changes in galleys beyond corrections of typographical errors will be made at the discretion of the editor and may be overruled for the sake of expediencies of schedule and expense.

There will be hundreds of contributing authors, and any contributor who returns proofs late has the potential to delay the publication of the entire work. Please proofread carefully, and give the job a high priority. We do not usually send page proofs to authors (page proofs come in quickly from the typesetter and must be cleared in short order), so the galley proof will be your only opportunity to make corrections.

### 6.3 AUTHOR SERVICES

Once your article goes into production, you will be eligible for Wiley-Blackwell Author Services. Benefits include:

- the ability to track your manuscript through the production process to publication,
- email notification when your article is in Early View,
- free access to your article for yourself, corresponding authors, and up to 10 colleagues, and
- a preferential author's discount of 25% on Wiley books.

For more information and to register, please go to <http://authorservices.wiley.com>.

## APPENDIX I: ARTICLE LIST BY SUBJECT CATEGORY

### APPLICATIONS OF COMPUTATIONAL STATISTICS

#### **Computational and Systems Biology**

007: Axon  
 006: Computational biology  
 002: Computed tomography  
 005: Epidemiology  
 004: Growth curves  
 428: Magnetic resonance imaging  
 427: Neuron  
 003: Neurophysiology  
 530: Neurotransmitters  
 001: Pharmacokinetics  
 584: Toxicology

#### **Computational Chemistry**

008: Chemometrics

#### **Computational Climate Change and Numerical Weather Forecasting**

010: Climate models and prediction  
 529: Numerical weather forecasting  
 009: Weather models and prediction  
 688: Computational Methods for Climate Data

#### **Computational Finance**

013: Computational finance  
 012: Financial mathematics  
 647: Financial time series  
 011: Statistics in finance

#### **Computational Linguistics**

578: Vector space model

#### **Computational Mathematics**

682: Bounds on delaunay tessellations  
 014: Computational geometry  
 020: Convex hull  
 019: Delaunay triangulation  
 021: Experimental mathematics and computational statistics  
 018: Fractals  
 015: Graph layout  
 017: Iterated function systems  
 016: Statistics of shape  
 590: Symbolic computation  
 429: Tessellation  
 664: Voronoi tessellation

#### **Computational Physics and Computational Geophysics**

025: Cartography  
 024: Geostatistics

023: Remote sensing

559: Seismic event identification  
 022: Statistical methods in seismology

#### **Defense and National Security**

430: Combining information  
 532: Minefield detection  
 026: Public policy

#### **Organizations and Publications**

543: AT&T Bell Laboratories and successors  
 045: Center for Disease Control  
 044: Committee on Applied and Theoretical Statistics  
 438: Communications in Statistics - Simulation and Computation  
 043: Comprehensive R archive network  
 042: COMPSTAT  
 041: Computational Statistics (Journal)  
 040: Computational Statistics and Data Analysis (CSDA)  
 039: Computing Science and Statistics  
 431: Digitized palomar sky survey  
 534: In-house Laboratory Independent Research  
 038: Interface Foundation of North America  
 037: Interface Symposium  
 436: International Association of Statistical Computing  
 036: Journal of Computational and Graphical Statistics  
 435: Journal of Statistical Computation and Simulation  
 035: Journal of Statistical Software  
 437: Journal of the Pattern Recognition Society  
 034: Lawrence Livermore National Laboratory  
 033: Los Alamos National Laboratory  
 432: Mathematical Sciences Research Institute  
 032: National Cancer Institute  
 031: National Center for Atmospheric Research  
 439: National Educational Longitudinal Study  
 030: National Institute of Standards and Technology  
 029: National Institute of Statistical Sciences  
 028: National Institutes of Health  
 433: RAND  
 027: Statistical and Applied Mathematical Sciences Institute  
 434: The collected algorithms of the ACM

**Psychometrics**  
 052: Bounded rationality

440: Cognitive science  
 051: Color perception  
 049: Graphical perception  
 048: Human perception and cognition  
 047: Representation of color  
 050: Statistical analysis of evidence  
 046: Statistics in forensic science

### **Signal and Image Processing and Coding**

443: Adaptive beamforming  
 442: Beamlets  
 062: Bearings-only tracking  
 061: Ciphers  
 060: Coding theory  
 059: Cryptology and encryption  
 644: Distributed sensors  
 444: Fast Fourier transform  
 068: Filtering for time series and signals  
 054: Functional magnetic resonance imaging  
 678: High-resolution signal and image processing  
 441: Huffman coding  
 520: Integer-valued time series  
 445: JPEG  
 067: Kalman filtering  
 513: Kolmogorov-Zurbenko filters  
 057: MPEG  
 056: Multimedia  
 053: Positron emission tomography  
 066: Signal detection theory  
 065: Signal processing  
 064: Spread spectrum  
 063: Statistical communication theory  
 055: Steganography  
 585: Tomography  
 576: Viterbi algorithm

### **ARTIFICIAL INTELLIGENCE**

#### **Expert Systems**

071: Artificial intelligence  
 070: Expert systems  
 069: Probabilistic expert systems

#### **Machine Intelligence**

072: Computer vision

### **BIOSTATISTICS AND BIOINFORMATICS**

#### **Clinical Trials**

446: Bioassay  
 074: Clinical trials  
 447: Cox model  
 684: Diagnostic trials  
 672: Dose-response curve  
 073: Meta-analysis  
 389: Randomized clinical trials

#### **DNA**

075: DNA microarray data

448: Biological sequence data

#### **General Topics**

076: Bioinformatics

#### **Genomics/Proteomics/Genetics**

077: Gene expression profiles  
 450: Human Genome Project  
 449: Phylogeny reconstruction  
 645: Proteomics  
 078: Statistical genetics

#### **Health and Medical Data**

080: Healthcare data  
 079: Medical informatics

### **COMPUTATIONAL BAYESIAN METHODS**

#### **Bayesian Methods and Theory**

547: Bayes information criterion  
 092: Bayes theorem  
 451: Bayesian CART  
 091: Bayesian classification  
 090: Bayesian computation  
 089: Bayesian data analysis  
 088: Bayesian estimation  
 087: Bayesian inference: an approach to statistical inference  
 082: Bayesian model averaging  
 081: Bayesian model choice  
 083: Bayesian networks  
 084: Bayesian nonparametric methods  
 086: Belief function  
 548: Coherence in time series and statistics  
 085: Empirical Bayes  
 608: Propagation of evidence

#### **Markov Chain Monte Carlo (MCMC)**

093: Gibbs sampling  
 094: Markov chain Monte Carlo

### **COMPUTATIONAL INTENSIVE STATISTICAL METHODS**

#### **Bootstrap and Resampling**

098: Bootstrap  
 551: Bootstrapping regression  
 095: Distribution-free methods in statistics  
 097: Jackknife  
 096: Resampling

#### **Density Estimation and Curve Fitting**

099: Averaged shifted histogram  
 118: Adaptive mixtures  
 117: Bandwidth in smoothing  
 452: Bezier curve  
 453: B-splines  
 116: Burr family of distributions  
 550: Classical density estimators  
 115: Curve estimation



114: Filtered kernel density estimation  
 100: Finite mixture distributions  
 113: Histogram  
 112: Johnson family of distributions  
 111: Kernel density estimation  
 110: Kernel regression  
 625: Loess  
 618: Nearest neighbor density estimation  
 102: Nonparametric curve estimation  
 101: Nonparametric regression  
 612: Orthogonal series density estimators  
 108: Pearson family of distributions  
 610: Principal curves  
 526: Radial basis  
 602: Scott's rule  
 107: Smoothing  
 640: Spline modeling  
 106: Spline smoothing  
 105: Splines  
 593: Sturges' rule  
 109: The L2E method  
 104: Thin plate splines  
 665: Variable-mesh histogram  
 103: Wavelet methods

### **Fast Manifold Learning**

119: Manifold learning

### **General Topics**

121: Computer-intensive methods  
 120: Computers and statistics

### **Multivariate Analysis**

549: Multiple scales  
 125: Multiresolution analysis  
 124: Multivariate analysis  
 454: Multivariate calibration  
 455: Multivariate contingency tables  
 123: Multivariate density estimation  
 122: Multivariate space-time data  
 611: Peeling

### **Nonparametric Estimation**

456: Bin smoother  
 128: Binning  
 127: Computational rank-based statistics  
 129: Generalized cross validation  
 126: Kolmogorov-Smirnov test

### **Other Methods**

132: Computer intensive tests  
 130: Cross validation  
 131: Operations research computations  
 599: Sorting of multivariate data

### **Robust Methods**

140: Breakdown value

139: Detection of outliers  
 138: Influence function  
 564: M-estimators  
 137: Minimum covariance determinant  
 136: Minimum volume ellipsoid  
 133: Outliers  
 522: Rank aggregation methods  
 135: Robust methods  
 603: Robust regression  
 134: Robust tests

## **COMPUTER SCIENCE METHODS**

### **Algorithms**

144: Algorithms for computational statistics  
 142: Computer performance measurement  
 631: Discrete fourier transform  
 536: Grand challenge problems  
 535: Information hiding  
 627: Kruskal's algorithm  
 141: Parallel computing  
 143: Statistical computing

### **Command Language**

457: FORTRAN  
 145: C programming language  
 538: Eigenvector  
 537: Fitting equations to data  
 621: Microsoft  
 609: Programming environments

### **Computational Concepts**

146: Human computer interaction  
 556: Binary digit  
 633: Datacube  
 680: Data-parallel computing in statistics  
 624: Maximum entropy

### **Hardware/Architectures**

458: Client-server architecture  
 683: Cloud computing  
 541: CPU performance  
 630: Distributed computing  
 459: Distributed grid-type architecture  
 147: Future computing environments  
 149: Service oriented architecture  
 148: Teraflop computer

### **Networks and Security**

462: Anomaly detection  
 163: Backscatter  
 150: Biosurveillance  
 153: Computer intrusion detection  
 681: Computer network optimization  
 161: Computer security  
 160: Computer viruses  
 159: Data confidentiality  
 151: Data security

162: Denial of service attack  
 152: Disease mapping  
 461: Firewall  
 158: Fraud detection  
 157: Internet traffic modeling  
 460: Network monitoring  
 156: Network tomography  
 155: Network traffic analysis  
 154: Networks  
 524: Transmission control protocol

### **Software/Statistical Software**

464: BMDP - statistical software  
 176: Computer-aided instruction  
 634: Current Index to Statistics  
 632: DataDesk  
 175: GenStat  
 167: Geographic information systems  
 166: Graphical user interface  
 628: IMSL Library  
 626: Lisp-Stat  
 463: Maple  
 174: Matlab library LIBRA  
 465: MATLAB software  
 518: Minitab  
 165: Object oriented programming  
 173: R graphics  
 639: R programming  
 172: S  
 171: SAS  
 170: Software engineering  
 164: Software reliability  
 666: SPSS  
 597: STATA  
 169: Statistical software  
 466: STATLIB  
 592: SUDAAN  
 589: SYSTAT  
 168: ViSta  
 571: XploRe

## **DATA MINING**

### **Clustering and Classification**

546: Agglomerative clustering  
 182: Classification  
 555: Classification complexity  
 181: Cluster analysis  
 561: Complete linkage clustering  
 180: K-means clustering  
 179: K-nearest neighbor  
 177: Model-based clustering  
 178: Support vector machines

### **Data Preparation and Processing**

190: Data cleaning  
 189: Data compression  
 676: Data preparation

184: Data quality  
 540: Data warehousing  
 554: Dedrogram  
 188: Editing statistical data  
 187: Handling of missing data points  
 183: Imputation  
 186: Record linkage  
 185: Recursive partitioning

### **Exploratory Data Analysis**

191: Functional data analysis  
 467: Guided tours  
 622: Median polish

### **General Topics**

193: Data mining  
 192: Statistical data mining

### **Knowledge Discovery**

468: Adaboost  
 545: Alternating conditional expectation  
 646: BSiZer  
 196: Chi-squared automated interaction detector  
 194: Google  
 195: Knowledge discovery in databases  
 568: Knowledge mining  
 686: Tonnabytes data sets and citizen science  
 469: Yahoo!

### **Pattern Recognition**

199: Feature extraction  
 198: Handwriting recognition and identification  
 197: Pattern recognition

### **Rule-based Mining**

200: Association rules

### **Streaming Data Mining**

470: Discounting older data  
 667: Quantization  
 201: Streaming data

### **Text Mining**

210: Bigram proximity matrix  
 209: Computational linguistics  
 208: Cross corpus discovery  
 202: Hypertext  
 207: Information retrieval algorithms  
 206: Latent semantic analysis  
 471: Natural language processing  
 205: Part-of-speech tagging  
 204: Speech recognition  
 203: Text data mining  
 569: Zipf distribution

## **DATA STRUCTURES**

### **Categorical and Numerical Data**

211: Categorical data  
 473: Categorical time series  
 472: Fisher's exact test

### General Topics

212: Data

### Graph, Digraph and Network Data

213: Binary trees  
 220: Bipartite matching  
 214: Class cover catch digraphs  
 219: Directed graph  
 216: Graph theory  
 679: Internet tomography  
 531: Minimal spanning tree  
 218: Random graphs  
 215: Random graphs for pattern recognition  
 217: Scan statistics on graphs

### Image and Spatial Data

474: Hyperspectral imagery data  
 226: Image grand tour  
 225: Image processing  
 224: Image restoration  
 223: Spatial data analysis  
 222: Spatial point processes  
 221: Spatial statistics

### Massive Data and Streaming Data

229: Large datasets  
 228: Lasso  
 227: Massive datasets

### Social Networks

230: Computational social science  
 231: Network science

### Time Series, Stochastic Process, and Functional Data

477: Arch and garch models  
 234: Autocovariance  
 233: Autoregressive process  
 478: Birth-and-death process  
 232: Change point detection  
 236: Computational methods in spectroscopy  
 476: Extreme values  
 241: Fractal Brownian motion  
 475: Harmonic analysis  
 240: Longitudinal data  
 239: Long-range dependence  
 238: Nonstationarity  
 598: Spatio-temporal processes  
 237: Spectral estimation  
 588: Taguchi method  
 235: Time series analysis  
 586: Toeplitz matrix  
 583: Transfer functions

579: Variogram  
 570: Yule-Walker estimator

### Traditional Statistical Data

544: ASA data exposition data set  
 245: Censored data  
 244: Circular data  
 243: Directional data  
 565: Heavy tailed density  
 242: Missing data  
 669: PRIM 7 data  
 668: PRIM-9

### DATA VISUALIZATION

#### Computer Graphics

479: 3-d layering  
 253: 3-d stereoscopic plots  
 252: Computer aided design  
 248: High-interaction graphics  
 247: Information visualization  
 246: Interactive graphics  
 251: Pixel rewrite  
 250: Rendering in computer graphics  
 587: Taxonomy of data visualization  
 577: Visualization Toolkit software  
 249: Volume rendering

#### Diagnostic Graphics

256: Cognostics  
 255: Diagnostic procedures  
 254: Regression diagnostics

#### Dimension Reduction

480: Curse of dimensionality  
 259: Dimension reduction  
 481: Fractal dimension and estimation  
 533: Manifolds  
 258: Multidimensional scaling  
 257: Sliced inverse regression

#### General Topics

261: Data visualization  
 260: Visualization

#### Statistical Graphics

483: Bertin's semiology  
 281: Binned bivariate scatterplot  
 280: Biplot  
 675: Block-recursive plots  
 553: Box plots  
 266: Brushing  
 279: Casement display  
 265: Chernoff faces  
 262: Conditional choropleth maps  
 482: Contour plot  
 278: Data display

277: Dynamic graphics  
 674: Evolutionary graphics  
 269: Exploratory data analysis  
 521: Geospatial visualization with VisTracks  
 268: Grammar of graphics  
 275: Linked low-dimensional views  
 267: Linked micromap plots  
 274: Linked views  
 272: Manet  
 620: MiniCAVE  
 271: MODRIAN  
 270: Mosaic plots  
 619: Multipanel graphs  
 563: Real-time graphics  
 273: Scatterplots and scatterplot matrices  
 264: Skyline plots  
 276: Statistical graphics  
 263: Trellis display

#### **Virtual Reality**

285: CAVE environment  
 286: Continuous animation  
 485: Head-mounted device  
 484: Multisensory virtual reality  
 284: Stereoscopic visualization  
 283: Virtual reality  
 282: Virtual reality modeling language

#### **Visualization of High Dimensional Data**

296: Andrews curves  
 295: BRUSH-TOUR  
 288: Choropleth maps  
 287: Color histogram  
 552: Conditional plots  
 292: CrystalVision  
 291: Explor4  
 673: Full-dimensional tours  
 290: GGobi  
 486: Grand tour and the Andrews plot  
 300: Grand tour of high dimensional data  
 299: K-dimensional tours  
 671: Multidimensional graphical display  
 298: Parallel coordinate and parallel coordinate density plots  
 297: Projection pursuit  
 527: Pseudo grand tour  
 294: Scale space methods  
 293: SiZer  
 289: Space-filling displays  
 575: Waterfall diagrams

#### **DATABASES**

##### **Relational Databases**

301: Relational databases

#### **MACHINE LEARNING**

##### **Classification and Regression Trees (CART)**

305: Bagging  
 304: Boosting  
 303: Classification and regression trees  
 302: Decision trees  
 487: Random forests  
 582: Tree-structured classifier

##### **General Topics**

306: Machine learning

##### **Logical Methods**

488: AQ learning

##### **MARS**

307: Multivariate adaptive regression splines

##### **Neural Networks**

309: Backfitting  
 490: Backpropagation  
 489: Hidden Markov model  
 308: Neural networks

##### **Statistical Methodology**

310: Statistical learning

#### **MODELING AND SIMULATION**

##### **Agent-Based Simulation/Modeling**

311: Agent based modeling and simulation

##### **Modeling Methods and Algorithms**

317: Adaptive model selection  
 316: Additive models  
 312: Generalized additive models  
 315: Model selection  
 314: Model validity and verification  
 313: Statistical models

##### **Monte Carlo Methods**

318: Monte Carlo methods

##### **Random Number Generation**

322: Antithetic variates  
 319: Box-Muller transformation  
 320: Random number generation  
 523: Uniform random numbers

##### **Simulation Models**

329: Computer experiments, statistical analysis of  
 328: Computer models and statistics  
 327: Discrete event simulation  
 323: Forward simulation models  
 326: Hierarchical models  
 325: Modeling and simulation  
 324: Simulation methods  
 685: Validation of simulation models

#### **NUMERICAL ANALYSIS**

**Complexity**

331: Computational complexity  
330: Computational feasibility

**Numerical Methods**

337: Cholesky factorization  
492: Conjugate gradient method  
336: Gaussian elimination  
491: Gauss-Newton algorithm  
335: Gradient methods  
334: N-dimensional quadrature  
617: Newton method  
333: Numerical analysis  
614: Optimization  
607: Quadratic programming  
600: Singular value decomposition  
332: Sparse matrix computations  
562: Sphere packing  
596: Steepest descent

**OPTIMIZATION****Dynamic Programming**

493: Combinatorial optimization  
560: Approximate dynamic programming  
539: Dynamic programming

**Genetic Algorithms and Evolutionary Computing**

338: Evolutionary computation  
525: Schema theorem

**Integer Programming**

339: Integer programming

**Linear Programming**

341: Constrained optimization  
494: Interior point methods  
340: Linear programming

**MLE (Maximum Methods)**

342: Maximum likelihood estimation  
623: Maximum penalized likelihood

**Nonlinear Programming**

542: Convex programming

**STATISTICAL METHODS****Admissibility**

495: Bayesian wavelet shrinkage

**Analysis of Variance and Covariance and Linear Models**

351: Analysis of variance  
350: Balanced incomplete block design  
349: Experimental design  
348: Fixed and random effects models  
347: Fractional factorial design  
346: Generalized linear models

345: Linear model  
344: Log-linear model  
517: Multicollinearity  
343: Optimal experimental design

**EM Algorithm**

352: Expectation maximization  
629: EM applications

**Information Theoretic Methods**

356: Akaike information criterion  
355: Analog to information  
496: Entropy  
354: Information measures  
353: Kullback Liebler information

**Mathematical Methods**

500: Banach space  
498: Calculus of variations  
497: Centroids  
499: Combinatorial analysis  
359: Combinatorics  
360: Deterministic uncertainty  
357: Fuzzy set theory  
358: Geometry in statistics  
670: Natural homogeneous coordinates  
643: P-splines  
642: Topology in statistics

**Nonparametric Statistics**

501: Dirichlet process  
363: Nonparametric inference  
361: Nonparametric maximum likelihood  
362: Rank methods

**Reliability, Survivability, and Quality Control**

369: Accelerated failure time  
368: Competing risks  
502: Kaplan-Meier estimator  
515: Network reliability evaluation  
367: Quality control  
366: Reliability  
512: Reliability in the 21st Century  
365: Statistical process control  
364: Survival analysis

**Sampling**

373: Algorithms for response adaptive sampling designs  
503: Hot deck method  
372: Importance sampling: a review  
638: Ranked set sampling  
371: Sample survey  
370: Sampling

**Statistical Theory and Applications**

421: Acceptance sampling

- 420: Actuarial method  
 419: Adaptive methods  
 514: Adaptive regression  
 641: Approximation theory  
 505: Archaeometrics  
 637: Asymptotic approximation  
 418: Asymptotic normality  
 504: Best linear unbiased estimator  
 558: Beta distribution  
 417: Brownian bridge  
 507: Calibration  
 510: Canberra distance  
 509: Capture-recapture  
 416: Cauchy-Schwarz inequality  
 415: Chi-bar squared distribution  
 557: Chi-squared distribution  
 380: Concave minimization  
 390: Contingency tables  
 376: Control chart  
 375: Convergence and asymptotics  
 636: Correspondence analysis  
 635: Crossover experiments  
 391: Data masking for disclosure limitation  
 414: Decision theory  
 383: Discriminant analysis  
 413: Distribution functions and probability  
 677: Errors in variables  
 411: Estimation  
 567: Factor analysis  
 566: Factorial design  
 410: Generalized estimating equations  
 409: Goodness-of-fit tests  
 408: Isotonic regression  
 407: Latent class analysis  
 406: Least squares  
 519: Likelihood inference  
 405: Linear regression  
 404: Logistic regression  
 403: Modes and bump hunting  
 374: Modes of inference  
 384: Multiple regression  
 616: Nonlinear regression  
 387: Normal mixtures  
 615: Ockham's razor  
 613: Orthogonal distance regression  
 377: Partial least squares  
 506: Partial least squares regression and projection on latent structure regression (PLS regression)  
 386: Penalized methods  
 385: Penalized splines  
 382: Prediction and forecasting  
 528: Pregibon's link test  
 379: Principal component analysis  
 508: Procrustes methods  
 402: Quantiles  
 381: Random fields  
 648: Randomization  
 606: Rank transformation  
 605: Rare event  
 401: Regression  
 604: Reproducing kernel Hilbert space  
 400: Response surface methodology  
 399: Ridge regression  
 687: Ridge tracing  
 388: Semiparametric methods  
 398: Sequential methods  
 601: Sieve methods  
 516: Simpson's paradox  
 397: Stahel-Donoho estimator  
 595: Stein shrinkage  
 396: Stepwise regression  
 395: Stochastic approximation: a survey  
 394: Stochastic calculus  
 594: Stratified sampling  
 393: Subset selection  
 591: Sufficient statistic  
 412: Total least squares methods  
 392: Tube theory  
 581: U-statistic  
 580: Variable selection  
 574: Weibull distribution  
 573: Wiener process  
 572: Wishart distribution
- Thought Pieces**  
 423: Future of statistics  
 422: History of statistics  
 511: Music
- Transformations**  
 426: Box-Cox transformation  
 424: Discrete wavelet transform  
 425: Transformation of data

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