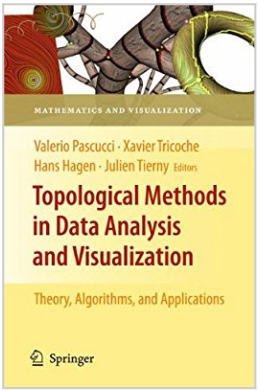

Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization)

From Brand: Springer

Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) From Brand: Springer

Topology-based methods are of increasing importance in the analysis and visualization of datasets from a wide variety of scientific domains such as biology, physics, engineering, and medicine. Current challenges of topology-based techniques include the management of time-dependent data, the representation of large and complex datasets, the characterization of noise and uncertainty, the effective integration of numerical methods with robust combinatorial algorithms, etc. . The editors have brought together the most prominent and best recognized researchers in the field of topology-based data analysis and visualization for a joint discussion and scientific exchange of the latest results in the field. This book contains the best 20 peer-reviewed papers resulting from the discussions and presentations at the third workshop on "Topological Methods in Data Analysis and Visualization", held 2009 in Snowbird, Utah, US. The 2009 "TopoInVis" workshop follows the two successful workshops in 2005 (Slovakia) and 2007 (Germany).

Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization)

From Brand: Springer

Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) From Brand: Springer

Topology-based methods are of increasing importance in the analysis and visualization of datasets from a wide variety of scientific domains such as biology, physics, engineering, and medicine. Current challenges of topology-based techniques include the management of time-dependent data, the representation of large and complex datasets, the characterization of noise and uncertainty, the effective integration of numerical methods with robust combinatorial algorithms, etc. . The editors have brought together the most prominent and best recognized researchers in the field of topology-based data analysis and visualization for a joint discussion and scientific exchange of the latest results in the field. This book contains the best 20 peer-reviewed papers resulting from the discussions and presentations at the third workshop on "Topological Methods in Data Analysis and Visualization", held 2009 in Snowbird, Utah, US. The 2009 "TopoInVis" workshop follows the two successful workshops in 2005 (Slovakia) and 2007 (Germany).

Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) From Brand: Springer Bibliography

- Sales Rank: #3756943 in Books
- Brand: Brand: Springer
- Published on: 2011-01-14
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .63" w x 6.14" l, 1.10 pounds
- Binding: Hardcover
- 260 pages

Editorial Review

From the Back Cover
Topology-based methods are of increasing importance in the analysis and visualization of datasets from a wide variety of scientific domains such as biology, physics, engineering, and medicine. Current challenges of topology-based techniques include the management of time-dependent data, the representation large and complex datasets, the characterization of noise and uncertainty, the effective integration of numerical methods with robust combinatorial algorithms, etc. While there is an increasing number of high-quality publications in this field, many fundamental questions remain unsolved. New focused efforts are needed in a variety of techniques ranging from the theoretical foundations of topological models, algorithmic issues related to the representation power of computer-based implementations as well as their computational efficiency, user interfaces for presentation of quantitative topological information, and the development of new techniques for systematic mapping of science problems in topological constructs that can be solved computationally. The editors have brought together the most prominent and best recognized researchers in the field of topology-based data analysis and visualization for a joint discussion and scientific exchange of the latest results in the field. The 2009 "TopoInVis" workshop in Snowbird, Utah, follows the two successful workshops in 2005 (Budmerice, Slovakia) and 2007 (Leipzig, Germany).

Users Review

From reader reviews:

Sharon Broome:

The knowledge that you get from Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) will be the more deep you searching the information that hide inside the words the more you get considering reading it. It doesn't mean that this book is hard to recognise but Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) giving you excitement feeling of reading. The author conveys their point in particular way that can be understood through anyone who read the idea because the author of this e-book is well-known enough. This specific book also makes your own vocabulary increase well. That makes it easy to understand then can go along with you, both in printed or e-book style are available. We highly recommend you for having this kind of Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) instantly.

Frank Anderson:

Information is provisions for folks to get better life, information these days can get by anyone on everywhere. The information can be a information or any news even a huge concern. What people must be consider whenever those information which is in the former life are difficult to be find than now could be taking seriously which one would work to believe or which one the resource are convinced. If you find the unstable resource then you have it as your main information you will have huge disadvantage for you. All of those possibilities will not happen within you if you take Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) as your daily resource information.

Rebecca Esquivel:

Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) can be one of your starter books that are good idea. All of us recommend that straight away because this publication has good vocabulary that could increase your knowledge in words, easy to understand, bit entertaining however delivering the information. The writer giving his/her effort to place every word into satisfaction arrangement in writing Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) although doesn't forget the main point, giving the reader the hottest as well as based confirm resource data that maybe you can be considered one of it. This great information can drawn you into new stage of crucial contemplating.

Charles Bock:

Are you kind of active person, only have 10 or perhaps 15 minute in your morning to upgrading your mind expertise or thinking skill even analytical thinking? Then you are having problem with the book compared to can satisfy your limited time to read it because this time you only find e-book that need more time to be examine. Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) can be your answer since it can be read by a person who have those short spare time problems.

Read Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) From Brand: Springer for online ebook

Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) From Brand: Springer Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) From Brand: Springer books to read online.

Online Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) From Brand: Springer ebook PDF download

Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) From Brand: Springer Doc

Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) From Brand: Springer Mobipocket

Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) From Brand: Springer EPub

UMJVRSA6XGL: Topological Methods in Data Analysis and Visualization: Theory, Algorithms, and Applications (Mathematics and Visualization) From Brand: Springer