Vistrails

Thomas Martin Deserno

Geoinformatics G. Randy Keller,Chaitanya Baru,2011-05-19 Advanced information technology infrastructure is increasingly being employed in the Earth sciences to provide researchers with efficient access to massive central databases and to integrate diversely formatted information from a variety of sources. These geoinformatics initiatives enable manipulation, modeling and visualization of data in a consistent way, and are helping to develop integrated Earth models at various scales, and from the near surface to the deep interior. This book uses a series of case studies to demonstrate computer and database use across the geosciences. Chapters are thematically grouped into sections that cover data collection and management; modeling and community computational codes; visualization and data representation; knowledge management and data integration; and web services and scientific workflows. Geoinformatics is a fascinating and accessible introduction to this emerging field for readers across the solid Earth sciences and an invaluable reference for researchers interested in initiating new cyberinfrastructure projects of their own.

Biomedical Image Processing Thomas Martin Deserno,2011-03-01 In modern medicine, imaging is the most

effective tool for diagnostics, treatment planning and therapy. Almost all modalities have went to directly digital acquisition techniques and processing of this image data have become an important option for health care in future. This book is written by a team of internationally recognized experts from all over the world. It provides a brief but complete overview on medical image processing and analysis highlighting recent advances that have been made in academics. Color figures are used extensively to illustrate the methods and help the reader to understand the complex topics.

The Architecture of Open Source Applications Amy Brown,Greg Wilson,2011 Beschrijving van vijfentwintig open source applicaties.

Geographical Information Systems Elaheh Pourabbas,2014-05-16 Web services, cloud computing, location based services, NoSQLdatabases, and Semantic Web offer new ways of accessing, analyzing, and elaborating geo-spatial information in both real-world and virtual spaces. This book explores the how-to of the most promising recurrent technologies and trends in GIS, such as Semantic GIS, Web GIS, Mobile GIS, NoSQL Geographic Databases, Cloud GIS, Spatial Data Warehousing-OLAP, and Open GIS. The text discusses and

emphasizes the methodological aspects of such technologies and their applications in GIS.

Scientific and Statistical Database Management Judith Bayard Cushing,James French,Shawn Bowers,2011-07-01 This book constitutes the refereed proceedings of the 23rd International Conference on Scientific and Statistical Database Management, SSDBM 2011, held in Portland, OR, USA, in July 2011. The 26 long and 12 short papers presented together with 15 posters were carefully reviewed and selected from 80 submissions. The topics covered are ranked search; temporal data and queries; workflow and provenance; querying graphs; clustering and data mining; architectures and privacy; and applications and models.

Implementing Reproducible Research Victoria Stodden,Friedrich Leisch,Roger D. Peng,2018-12-14 In computational science, reproducibility requires that researchers make code and data available to others so that the data can be analyzed in a similar manner as in the original publication. Code must be available to be distributed, data must be accessible in a readable format, and a platform must be available for widely distributing the data and code. In addition, both data and code need to be licensed permissively enough so that others can

reproduce the work without a substantial legal burden. Implementing Reproducible Research covers many of the elements necessary for conducting and distributing reproducible research. It explains how to accurately reproduce a scientific result. Divided into three parts, the book discusses the tools, practices, and dissemination platforms for ensuring reproducibility in computational science. It describes: Computational tools, such as Sweave, knitr, VisTrails, Sumatra, CDE, and the Declaratron system Open source practices, good programming practices, trends in open science, and the role of cloud computing in reproducible research Software and methodological platforms, including open source software packages, RunMyCode platform, and open access journals Each part presents contributions from leaders who have developed software and other products that have advanced the field. Supplementary material is available at www.ImplementingRR.org.

 Provenance and Annotation of Data and Processes Juliana Freire,David Koop,2008-11-19 This book constitutes the thoroughly refereed post-conference proceedings of the Second International Provenance and Annotation Workshop, IPAW 2008, held in Salt Lake City, UT, USA, in June 2007. The 14 revised full papers and

15 revised short and demo papers presented together with 2 keynote lectures were carefully reviewed and selected from 40 submissions. The paper are organized in topical sections on provenance: models and querying; provenance: visualization, failures, identity; provenance and workflows; provenance for streams and collaboration; and applications.

Provenance and Annotation of Data Ian Foster,2006-11-23 This book constitutes the thoroughly referred post-proceedings of the International Provenance and Annotation Workshops, IPAW 2006, held in Chicago, Il, USA in May 2006. The 26 revised full papers presented together with two keynote papers were carefully selected for presentation during two rounds of reviewing and improvement. The papers are organized in topical sections.

Quantum Many–Body Physics of Ultracold Molecules in Optical Lattices Michael L. Wall,2015-04-20 This thesis investigates ultracold molecules as a resource for novel quantum many-body physics, in particular by utilizing their rich internal structure and strong, long-range dipole-dipole interactions. In addition, numerical methods based on matrix product states are analyzed in detail, and general algorithms for investigating the static and dynamic properties of essentially arbitrary one-dimensional quantum many-

body systems are put forth. Finally, this thesis covers open-source implementations of matrix product state algorithms, as well as educational material designed to aid in the use of understanding such methods.

Handbook of Research on Computational Grid Technologies for Life Sciences, Biomedicine, and Healthcare Cannataro, Mario,2009-05-31 This book provides methodologies and developments of grid technologies applied in different fields of life sciences--Provided by publisher.

Provenance and Annotation of Data and Processes Paul Groth,James Frew,2012-10-05 This book constitutes the revised selected papers of the 4th International Provenance and Annotation Workshop, IPAW 2012, held in Santa Barbara, CA, USA, in June 2012. The 14 full papers, 4 demo papers and 12 poster papers presented were carefully reviewed and selected from 49 submissions. The papers are organized in topical sections on documents databases; the Web; reconstruction; science applications; and demonstrations.

Advances in Visual Computing Richard Boyle,Bahram Parvin,Darko Koracin,Nikos Paragios,Syeda-Mahmood Tanveer,Tao Ju,Zicheng Liu,Sabine Coquillart,Carolina Cruz-

Neira,Torsten Möller,Tom Malzbender,2007-11-22 The two volume set LNCS 4841 and LNCS 4842 constitutes the refereed proceedings of the Third International Symposium on Visual Computing, ISVC 2007, held in Lake Tahoe, NV, USA, in November 2007. The 77 revised full papers and 42 poster papers presented together with 32 full and five poster papers of six special tracks were carefully reviewed and selected. The papers cover the four main areas of visual computing: vision, graphics, visualization, and virtual reality.

The Semantic Web - ISWC 2008 Amit P. Sheth,Steffen Staab,Massimo Paolucci,Diana Maynard,Timothy Finin,Krishnaprasad Thirunarayan,2008-10-21 The Web is a globalinformationspace consistingoflinked documents andlinked data. As the Web continues to grow and new technologies, modes of interaction, and applications are being developed, the task of the Semantic Web is to unlock the power of information available on the Web into a common semantic inf- mation space and to make it available for sharing and processing by automated tools as well as by people. Right now, the publication of large datasets on the Web, the opening of data access interfaces, and the encoding of the semantics of the data extend the current human-centric Web. Now,

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the Semantic Web c- munity is tackling the challenges of how to create and manage Semantic Web content, how to make Semantic Web applications robust and scalable, and how to organize and integrate information from di?erent sources for novel uses. To foster the exchange of ideas and collaboration, the International Semantic Web Conference brings together researchers and practitioners in relevant disciplines such as arti?cial intelligence, databases, social networks, distributed computing, Web engineering, information systems, natural language processing, soft c- puting, and human−computer interaction. This volume contains the main proceedings of ISWC 2008, which we are - cited to o?er to the growing community of researchers and practitioners of the Semantic Web. We got a tremendous response to our call for research papers from a truly international community of researchers and practitioners from 41 countries submitting 261 papers. Each paper receivedan averageof 3.

Optimization Under Uncertainty in Sustainable Agriculture and Agrifood Industry Víctor M. Albornoz,

Scientific Data Management Arie Shoshani,Doron Rotem,2009-12-16 Dealing with the volume, complexity, and diversity of data currently being generated by scientific experiments

and simulations often causes scientists to waste productive time. Scientific Data Management: Challenges, Technology, and Deployment describes cutting-edge technologies and solutions for managing and analyzing vast amounts of data, helping scientists focus on their scientific goals. The book begins with coverage of efficient storage systems, discussing how to write and read large volumes of data without slowing the simulation, analysis, or visualization processes. It then focuses on the efficient data movement and management of storage spaces and explores emerging database systems for scientific data. The book also addresses how to best organize data for analysis purposes, how to effectively conduct searches over large datasets, how to successfully automate multistep scientific process workflows, and how to automatically collect metadata and lineage information. This book provides a comprehensive understanding of the latest techniques for managing data during scientific exploration processes, from data generation to data analysis. Enhanced by numerous detailed color images, it includes real-world examples of applications drawn from biology, ecology, geology, climatology, and more. Check out Dr. Shoshani discuss the book during an interview with International Science Grid This Week (iSGTW):

http://www.isgtw.org/?pid=1002259

Provenance and Annotation of Data and Process Deborah L. McGuinness,James R. Michaelis,Luc Moreau,2011-01-04 The 7 revised full papers, 11 revised medium-length papers, 6 revised short, and 7 demo papers presented together with 10 poster/abstract papers describing late-breaking work were carefully reviewed and selected from numerous submissions. Provenance has been recognized to be important in a wide range of areas including databases, workflows, knowledge representation and reasoning, and digital libraries. Thus, many disciplines have proposed a wide range of provenance models, techniques, and infrastructure for encoding and using provenance. The papers investigate many facets of data provenance, process documentation, data derivation, and data annotation.

Scientific and Statistical Database Management Marianne Winslett,2009-05-22 This book constitutes the refereed proceedings of the 21st International Conference on Scientific and Statistical Database Management, SSDBM 2009, held in New Orleans, LA, USA in June 2009. The 29 revised full papers and 12 revised short papers including poster and demo papers presented together with three invited presentations were carefully reviewed and selected

from 76 submissions. The papers are organized in topical sections on improving the end-user experience, indexing, physical design, and energy, application experience, workflow, query processing, similarity search, mining, as well as spatial data.

Healthgrid Applications and Core Technologies Tony Solomonides,2010 This book presents the proceedings of HealthGrid 2010, the latest in the annual open forum for the integration of grid technologies, e science and e health methods and their application in biomedicine and healthcare. Previous conferences have highlighted the need to involve all actors, such as physicians, scientists and technologists, and have served to demonstrate the usefulness of grids to potential application domains, at least at the prototype level. More recently, cloud computing seems set to make an impact as a paradigm more readily acceptable in the practice of healthcare informatics, whilst grids may remain the infrastructure of choice for researchers. Included in this volume are the 19 papers selected after review from 42 original submissions for full presentation at the 2010 conference. Additional papers, presented as posters at the conference, are reproduced here in shorter form. The book has four sections: section one contains four papers under the broad

heading of `Socio Economic Aspects and Accessibility', section two: `Future of Grids, Core Technologies & Data Integration', consists of nine papers and section three comprises a further six papers covering `Applications'. Section four includes the `Poster Extended Abstracts'. Of interest to grid middleware and healthgrid application developers, ethicists, security experts and policy makers as well as all users of biomedical and health informatics, this book provides an overview of current trends and developments in this increasingly important field of healthcare.

Data Provenance and Data Management in eScience Qing Liu,Quan Bai,Stephen Giugni,Darrell Williamson,John Taylor,2012-08-04 This book covers important aspects of fundamental research in data provenance and data management(DPDM), including provenance representation and querying, as well as practical applications in such domains as clinical trials, bioinformatics and radio astronomy.

The Fourth Paradigm Anthony J. G. Hey,Stewart Tansley,Kristin Michele Tolle,2009 Foreword. A transformed scientific method. Earth and environment. Health and wellbeing. Scientific infrastructure. Scholarly communication.

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