



Data In Astronomy

V. di Gesù, L. Scarsi



Data In Astronomy:

Data Analysis in Astronomy V. di Gesù, L. Scarsi, P. Crane, J.H. Friedman, S. Levialdi, 2012-12-06 The international Workshop on Data Analysis in Astronomy was intended to give a presentation of experiences that have been acquired in data analysis and image processing developments and applications that are steadily growing up in Astronomy The quality and the quantity of ground and satellite observations require more sophisticated data analysis methods and better computational tools The Workshop has reviewed the present state of the art explored new methods and discussed a wide range of applications The topics which have been selected have covered the main fields of interest for data analysis in Astronomy The Workshop has been focused on the methods used and their significant applications Results which gave a major contribution to the physical interpretation of the data have been stressed in the presentations Attention has been devoted to the description of operational system for data analysis in astronomy The success of the meeting has been the result of the coordinated effort of several people from the organizers to those who presented a contribution and or took part in the discussion We wish to thank the members of the Workshop scientific committee Prof M Cappacioli Prof G De Biase Prof G Sedmak Prof A Zichichi and of the local organizing committee Dr R Buccheri and Dr M C Maccone together with Miss P Savalli and Dr A Gabriele of the E Majorana Center for their support and the invaluable part in arranging the Workshop

Data in Astronomy Carlos Jaschek, 1989-03-16 Originally published in 1989 this book provides a comprehensive account of how to handle astronomical data Descriptions of data acquisition handling and interpretation are included The advice starts with chapters on observatories and observations followed by discussions on the archiving of data and its presentation in the literature

Databases & On-line Data in Astronomy M.A Albrecht, D Egret, 2012-12-06 Data archiving has for many years been the most disregarded aspect of all data systems The increase in numbers of telescopes both groundbased and space borne and the increase in efficiency of detectors have generated overwhelming amounts of data Much of these data were and are not used on short timescales and should have been archived where they can be used later and or by others Archiving is essential Objects can change in the course of time New technological or scientific developments might require observing objects again The cost benefit ratio will become more and more important when considering the allocation of telescope time The retrieval of old data can then be crucial At present there are a number of data collections and data retrieval systems This book includes a series of clear and up to date descriptions of many important available data systems For professional astronomers librarians and computer engineers

[Information & On-Line Data in Astronomy](#) D Egret, M.A Albrecht, 2012-12-06 The ability of storing managing and giving access to the huge quantity of data collected by astronomical observatories is one of the major challenges of modern astronomy At the same time the growing complexity of data systems implies a change of concepts the scientist has to manipulate data as well as information Recent developments of the WorldWideWeb bring interesting answers to these problems The book presents a wide selection of databases archives data

centers and information systems Clear and up to date descriptions are included together with their scientific context and motivations Audience This volume provides an essential tool for astronomers librarians data specialists and computer engineers

Knowledge Discovery in Big Data from Astronomy and Earth Observation Petr Skoda,Fathalrahman Adam,2020-04-09 Knowledge Discovery in Big Data from Astronomy and Earth Observation Astrogeoinformatics bridges the gap between astronomy and geoscience in the context of applications techniques and key principles of big data Machine learning and parallel computing are increasingly becoming cross disciplinary as the phenomena of Big Data is becoming common place This book provides insight into the common workflows and data science tools used for big data in astronomy and geoscience After establishing similarity in data gathering pre processing and handling the data science aspects are illustrated in the context of both fields Software hardware and algorithms of big data are addressed Finally the book offers insight into the emerging science which combines data and expertise from both fields in studying the effect of cosmos on the earth and its inhabitants

Astronomy Data Book J. Hedley Robinson,1972

Data Analysis in Astronomy IV R. Buccheri,P. Crane,Vito di Gesù,M.C. Maccarone,L. Scarsi,H.U. Zimmermann,2012-12-06 In this book are reported the main results presented at the Fourth International Workshop on Data Analysis in Astronomy held at the Ettore Majorana Center for Scientific Culture Erice Sicily Italy on April 12 19 1991 The Workshop was preceded by three workshops on the same subject held in Erice in 1984 1986 and 1988 The frst workshop Erice 1984 was dominated by presentations of Systems for Data Analysis the main systems proposed were MIDAS AIPS RIAIP and SAIA Methodologies and image analysis topics were also presented with the emphasis on cluster analysis multivariate analysis bootstrap methods time analysis periodicity 2D photometry spectrometry and data compression A general presentation on Parallel Processing was made which encompassed new architectures data structures and languages The second workshop Erice 1986 reviewed the Data Handling Systems planned for large major satellites and ground experiments VLA HST ROSAT COMPASS COMPTTEL Data analysis methods applied to physical interpretation were mainly considered cluster photometry astronomical optical data compression cluster analysis for pulsar light curves coded aperture imaging New parallel and vectorial machines were presented cellular machines PAPIA machine MPP machine vector computers in astronomy Contributions in the field of artificial intelligence and planned applications to astronomy were also considered expert systems artificial intelligence in computer vision

Data Analysis in Astronomy III V. di Gesù,L. Scarsi,R. Buccheri,P. Crane,M.C. Maccarone,H.U. Zimmerman,2012-12-06 In the book are reported the main results presented at the Third International Workshop on Data Analysis in Astronomy held at the EUore Majorana Center for Scientific Culture Erice Sicily Italy on June 20 27 1988 The Workshop was the natural evolution of the two previous ones The main goal of the first edition Erice 1984 was to start a scientific interaction between Astronomers and Computer Scientists Aim of the second Erice 1986 was to look at the progress in data analysis methods and dedicated hardware technology Data analysis problems become harder whenever the data are poor in statistics or the signal

is weak and embedded in structured background Experiments collecting data of such a nature require new and non standard methodologies Possibilistic approaches could be merged with the statistical ones in order to formalize all the knowledge used by the scientists to reach conclusions Moreover the last decade has been characterized by very fast developments of Intelligent Systems for data analysis knowledge based systems that would be useful to support astronomers in complex decision making For these reasons the last edition of the workshop was intended to provide an overview on the state of the art in the data analysis methodologies and tools in the new frontiers of the astrophysics y astronomy neutrino astronomy gravitational waves background radiation and extreme cosmic ray energy spectrum The book is organized in two sections Data analysis methods and tools New frontiers in astronomy **The Data Book of Astronomy** Patrick Moore,2000-01-01 Filled with data about the Earth Moon the planets the stars our Galaxy and the myriad galaxies in deep space this invaluable resource reveals the latest scientific discoveries about black holes quasars and the origins of the Universe It includes maps supported by detailed tables of the names positions magnitudes and spectra of the main stars in each constellation along with key data on galaxies nebulae and clusters MNRAS wrote This book fills a niche with detailed astronomical data and concise explanations all at an accessible level it is an excellent resource and probably will be the first book I shall reach for

Astronomical Image and Data Analysis J.-L. Starck,F. Murtagh,2013-04-17 When we consider the ever increasing amount of astronomical data available to us we can well say that the needs of modern astronomy are growing by the day Ever better observing facilities are in operation The fusion of information leading to the coordination of observations is of central importance The methods described in this book can provide effective and efficient ripostes to many of these issues Much progress has been made in recent years on the methodology front in line with the rapid pace of evolution of our technological infrastructures The central themes of this book are information and scale The approach is astronomy driven starting with real problems and issues to be addressed We then proceed to comprehensive theory and implementations of demonstrated efficacy The field is developing rapidly There is little doubt that further important papers and books will follow in the future Colleagues we would like to acknowledge include Alexandre Aussem Albert Bijaoui Francis Bonnarel Jonathan G Campbell Ghada Jammal Rene Gastaud Pierre Francis Honore Bruno Lopez Mireille Louys Clive Page Eric Pantin Philippe Querre Victor Racine Jerome Rodriguez and Ivan Valtchanov Data Analysis in Astronomy II V. di Gesù,L. Scarsi,2013-03-09 The II international workshop on Data Analysis in Astronomy was intended to provide an overview on the state of the art and the trend in data analysis and image processing in the context of their applications in Astronomy The need for the organization of a second workshop in this subject derived from the steady growing and development in the field and from the increasing cross interaction between methods technology and applications in Astronomy The book is organized in four main sections Data Analysis Methodologies Data Handling and Systems dedicated to Large Experiments Parallel Processing New Developments The topics which have been selected cover some of the main fields in data analysis in Astronomy Methods that

provide a major contribution to the physical interpretation of the data have been considered Attention has been devoted to the description of the data analysis and handling organization in very large experiments A review of the current major satellite and ground based experiments has been included At the end of the book the following Panel Discussions are included Data Analysis Trend in Optical and Radio Astronomy Data Analysis Trend in X and Gamma Astronomy Problems and Solutions in the Design of Very Large Experiments Trend on Parallel Processing Algorithms These contributions in a sense summarize the live reaction of the audience to the various topics

Knowledge Discovery in Big Data from Astronomy and Earth Observation Petr Skoda,Fathalrahman Adam,2020-04-10 Knowledge Discovery in Big Data from Astronomy and Earth Observation Astrogeoinformatics bridges the gap between astronomy and geoscience in the context of applications techniques and key principles of big data Machine learning and parallel computing are increasingly becoming cross disciplinary as the phenomena of Big Data is becoming common place This book provides insight into the common workflows and data science tools used for big data in astronomy and geoscience After establishing similarity in data gathering pre processing and handling the data science aspects are illustrated in the context of both fields Software hardware and algorithms of big data are addressed Finally the book offers insight into the emerging science which combines data and expertise from both fields in studying the effect of cosmos on the earth and its inhabitants Addresses both astronomy and geosciences in parallel from a big data perspective Includes introductory information key principles applications and the latest techniques Well supported by computing and information science oriented chapters to introduce the necessary knowledge in these fields *Astronomical Data Center Bulletin* Astronomical Data Center (U.S.),1980

Astrostatistics and Data Mining Luis Manuel Sarro,Laurent Eyer,William O'Mullane,Joris De Ridder,2012-08-04 This volume provides an overview of the field of Astrostatistics understood as the sub discipline dedicated to the statistical analysis of astronomical data It presents examples of the application of the various methodologies now available to current open issues in astronomical research The technical aspects related to the scientific analysis of the upcoming petabyte scale databases are emphasized given the importance that scalable Knowledge Discovery techniques will have for the full exploitation of these databases Based on the 2011 Astrostatistics and Data Mining in Large Astronomical Databases conference and school this volume gathers examples of the work by leading authors in the areas of Astrophysics and Statistics including a significant contribution from the various teams that prepared for the processing and analysis of the Gaia data Software and Data for Practical Astronomers David Ratledge,1999 There is a vast amount of astronomical software on the Internet but unless you re prepared to spend months looking for it and hours downloading it you won t be able to match this collection

The journal of astronomical data : 1995 - 1999, volumes 1 - 5 Christiaan Sterken,2000 *Patrick Moore's Data Book of Astronomy* Patrick Moore,Robin Rees,2014-01-16 Packed with up to date astronomical data about the Solar System our Galaxy and the wider Universe this is a one stop reference for astronomers of all levels It gives the names positions sizes and other key facts

of all the planets and their satellites discusses the Sun in depth from sunspots to solar eclipses lists the dates for cometary returns close approach asteroids and significant meteor showers and includes 88 star charts with the names positions magnitudes and spectra of the stars along with key data on nebulae and clusters Full of facts and figures this is the only book you need to look up data about astronomy It is destined to become the standard reference for everyone interested in astronomy

Advances in Machine Learning and Data Mining for Astronomy Michael J. Way, Jeffrey D. Scargle, Kamal M. Ali, Ashok N. Srivastava, 2012-03-29 Advances in Machine Learning and Data Mining for Astronomy documents numerous successful collaborations among computer scientists statisticians and astronomers who illustrate the application of state of the art machine learning and data mining techniques in astronomy Due to the massive amount and complexity of data in most scientific disciplines

Astronomical Data Analysis Software and Systems IX Nadine Manset, Christian Veillet, Dennis Richard Crabtree, 2000

Applied Data Science Douglas G. Woolford, Donna Kotsopoulos, Boba Samuels, 2023-05-09 The use of data to guide action is growing Even the public uses data to guide everyday decisions How do we develop data acumen across a broad range of fields and varying levels of expertise How do we foster the development of effective data translators This book explores these questions presenting an interdisciplinary collection of edited contributions across fields such as education health sciences natural sciences politics economics business and management studies social sciences and humanities Authors illustrate how to use data within a discipline including visualization and analysis translating and communicating results and pedagogical considerations This book is of interest to scholars and anyone looking to understand the use of data science across disciplines It is ideal in a course for non data science majors exploring how data translation occurs in various contexts and for professionals looking to engage in roles requiring data translation

The Enigmatic Realm of **Data In Astronomy**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Data In Astronomy** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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