



Jean-Luc Starck
Fionn Murtagh

Astronomical Image and Data Analysis

Second Edition



 Springer

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Peipei Pang



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Astronomical Image and Data Analysis J.-L. Starck, F. Murtagh, 2007-06-21 With information and scale as central themes this comprehensive survey explains how to handle real problems in astronomical data analysis using a modern arsenal of powerful techniques It treats those innovative methods of image signal and data processing that are proving to be both effective and widely relevant The authors are leaders in this rapidly developing field and draw upon decades of experience They have been playing leading roles in international projects such as the Virtual Observatory and the Grid The book addresses not only students and professional astronomers and astrophysicists but also serious amateur astronomers and specialists in earth observation medical imaging and data mining The coverage includes chapters or appendices on detection and filtering image compression multichannel multiscale and catalog data analytical methods wavelets transforms Picard iteration and software tools This second edition of Starck and Murtagh's highly appreciated reference again deals with topics that are at or beyond the state of the art It presents material which is more algorithmically oriented than most alternatives and broaches new areas like ridgelet and curvelet transforms Throughout the book various additions and updates have been made

Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications José Ruiz-Shulcloper, Gabriella Sanniti di Baja, 2013-11-04 The two volume set LNCS 8258 and 8259 constitutes the refereed proceedings of the 18th Iberoamerican Congress on Pattern Recognition CIARP 2013 held in Havana Cuba in November 2013 The 137 papers presented together with two keynotes were carefully reviewed and selected from 262 submissions The papers are organized in topical sections on mathematical theory of PR supervised and unsupervised classification feature or instance selection for classification image analysis and retrieval signals analysis and processing applications of pattern recognition biometrics video analysis and data mining

Encyclopedia of Astrobiology Muriel Gargaud, William M. Irvine, Ricardo Amils, Philippe Claeys, Henderson James Cleaves, Maryvonne Gerin, Daniel Rouan, Tilman Spohn, Stéphane Tirard, Michel Viso, 2023-07-27 Now in its third edition the Encyclopedia of Astrobiology serves as the key to a common understanding in the extremely interdisciplinary community of astrobiologists Each new or experienced researcher and graduate student in adjacent fields of astrobiology will appreciate this reference work in the quest to understand the big picture The carefully selected group of active researchers contributing to this work are aiming to give a comprehensive international perspective on and to accelerate the interdisciplinary advance of astrobiology The interdisciplinary field of astrobiology constitutes a joint arena where provocative discoveries are coalescing concerning e.g. the prevalence of exoplanets the diversity and hardness of life and its chances for emergence Biologists astrophysicists biochemists geoscientists and space scientists share this exciting mission of revealing the origin and commonality of life in the Universe With its overview articles and its definitions the Encyclopedia of Astrobiology not only provides a common language and understanding for the members of the different disciplines but also serves for educating a new generation of young

astrobiologists who are no longer separated by the jargon of individual scientific disciplines This new edition offers 170 new entries More than half of the existing entries were updated expanded or supplemented with figures supporting the understanding of the text Especially in the fields of astrochemistry and terrestrial extremophiles but also in exoplanets and space sciences in general there is a huge body of new results that have been taken into account in this new edition Because the entries in the Encyclopedia are in alphabetical order without regard for scientific field this edition includes a section Astrobiology by Discipline which lists the entries by scientific field and subfield This should be particularly helpful to those enquiring about astrobiology as it illustrates the broad and detailed nature of the field

Measurements and Instrumentation for Machine Vision Oleg Sergiyenko, Wendy Flores-Fuentes, Julio Rodriguez-Quinonez, Jesús E Miranda-Vega, 2024-06-26 A comprehensive reference book that addresses the field of machine vision and its significance in cyber physical systems It explores the multidisciplinary nature of machine vision involving electronic and mechatronic devices artificial intelligence algorithms embedded systems control systems robotics interconnectivity data science and cloud computing The book aims to provide advanced students early career researchers and established scholars with state of the art knowledge and novel content related to the implementation of machine vision in engineering scientific knowledge and technological innovation The chapters of the book delve into various topics and applications within the realm of machine vision They cover areas such as camera and inertial measurement unit calibration technical vision systems for human detection design and evaluation of support systems using neural networks UV sensing in contemporary applications fiber Bragg grating arrays for medical diagnosis color model creation for terrain recognition by robots navigation systems for aircraft object classification in infrared images feature selection for vehicle non vehicle classification visualization of sedimentation in extreme conditions quality estimation of tea using machine vision image dataset augmentation techniques machine vision for astronomical images agricultural automation occlusion aware disparity based visual servoing machine learning approaches for single photon imaging and augmented visual inertial wheel odometry Each chapter is a result of expert research and collaboration reviewed by peers and consulted by the book's editorial board The authors provide in depth reviews of the state of the art and present novel proposals contributing to the development and futuristic trends in the field of machine vision *Measurements and Instrumentation for Machine Vision* serves as a valuable resource for researchers students and professionals seeking to explore and implement machine vision technologies in various domains promoting sustainability human centered solutions and global problem solving

Eclipsing Binary Stars: Modeling and Analysis Josef Kallrath, Eugene F. Milone, 2009-08-14 Have you ever stopped at a construction project on the way to your office and the day's astrophysics Remember the other onlookers folks just enjoying the spectacle as we all do in following developments away from our areas of active work We are excited and thrilled when the Hubble Space Telescope discovers an Einstein Cross when the marvelous pulsars enter our lives and when computer scientists put a little box on our desk that outperforms yesterday's

giant machines We are free to make use of such achievements and we respect the imagination and discipline needed to bring them about just as onlookers respect the abilities and planning needed to create a building they may later use After all each of us contributes in our own areas as best as we can In addition to the serious onlookers there will be passersby who take only a casual look at the site They may use the building later but have little or no interest in its construction and give no thought to the resources needed to bring it to completion Upon arriving at work those persons write astronomy and astrophysics books at various levels in which they must say something about close binary stars Usually a page or two will do and the emphasis is on the MLR mass luminosity radius data obtained only from binaries **Astrophysics** Wolfgang Kundt, 2004-11-22 Devised for a quantitative understanding of the physics of the universe from the solar system through the milky way to clusters of galaxies all the way to cosmology this acclaimed text offers among the most concise and most critical ones of extant works Special chapters are devoted to magnetic and radiation processes disks black hole candidacy bipolar flows cosmic rays gamma ray bursts image distortions and special sources At the same time planet earth is viewed as the arena for life with plants and animals having evolved to homo sapiens during cosmic time This text is unique in covering the basic qualitative and quantitative tools formulae as well as numbers needed to for the precise interpretation of frontline phenomena Relativistic Astrophysics and Cosmology Peter Hoyng, 2007-01-10 Relativistic Astrophysics and Cosmology offers a succinct and self contained treatment of general relativity and its application to compact objects gravitational waves and cosmology The required mathematical concepts are introduced informally following geometrical intuition as much as possible The approach is theoretical but there is ample discussion of observational aspects and of instrumental issues where appropriate The book includes such topical issues as the Gravity Probe B mission interferometer detectors of gravitational waves and the physics behind the angular power spectrum of the cosmic microwave background CMB Written for advanced undergraduates and beginning graduate students in astro physics it is ideally suited for a lecture course and contains 140 exercises with extensive hints The reader is assumed to be familiar with linear algebra and analysis ordinary differential equations special relativity and basic thermal physics Astrophysical Formulae Kenneth Lang, 2006-02-22 This classic reference for the fundamental formulae of physics and astrophysics has become part of nearly every astronomer's and astrophysicist's library A magnificent compendium OPTICA ACTA ON THE FIRST EDITION **Astrophysical Formulae** Kenneth R. Lang, 2013-12-21 This volume is a reference source of fundamental formulae in physics and astrophysics In contrast to most of the usual compendia it carefully explains the physical assumptions entering the formulae All the important results of physical theories are covered electrodynamics hydrodynamics general relativity atomic and nuclear physics and so on Over 2100 formulae are included and the original papers for the formulae are cited together with papers on modern applications in a bibliography of over 1900 entries For this new edition a chapter on space time matter and cosmology has been included and the other chapters have been carefully revised Astrophysics of the Diffuse Universe

Michael A. Dopita, Ralph S. Sutherland, 2013-06-29 Our purpose in writing this book is to show how physics has been applied to developing our current understanding of the phase structure physical conditions chemical makeup and evolution of the thermal interstellar medium We hope it provides an up to date overview which postgraduates advanced undergraduates and professionals in astrophysics can use as a reference of first resort before going on to read the more specialist monographs or research literature We have covered the exciting observational results but without consideration of the experimental techniques or instruments required An elementary understanding of mathematical physics and of quantum mechanics has been assumed and a knowledge of basic astrophysics would be helpful Older textbooks on interstellar physics have tended to develop the subject matter in an order which reflects the historical development of the field Here a more pedagogical approach has been adopted based on our lecture course experience We cover successively more complex physical systems found in the diffuse universe Detailed mathematical rigour is eschewed in favour of providing the reader with a basic physical insight into these systems Astrophysical problems are treated as practical applications of the physics In practice the material is generally ranked in order of decreasing entropy since the hottest and most diffuse phases tend to be physically less complex

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