

Mathematical Foundation Of Computer Science By Rajendra Prasad Pdf

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Mathematical Foundations of Computer Science - Pushpalatha Ramesh 2014-09-09

This Text Book is designed to meet the requirements of the under graduate students of B.Sc (Computer Science), B.C.A., B.Sc (CT) and post graduate students of M.C.A., M.Sc (Computer Science) and Computer Technologies. This text is for beginners as well as experts who wish to learn this subject. The language adopted is simple and the subject-matter self explanatory in nature. A variety of problems has been included in each chapter to enable the reader to gain further insight and clarity of the application of the techniques. It includes numerous examples that illustrate the basic concept and the exercises, to enhance the value of the book. Key Features This Text Book covers Matrices, Set Theory, Boolean Algebra, Mathematical Logic, Graph Theory, Grammars And Languages. Numerous illustrative problems are provided to help the reader understand the subject. To suit the needs of the B.C.A., M.C.A. and M.Sc curriculum of various universities. All major steps in the problems are presented in a step-by-step format.

D.R.D.A. Reporter - 1995

Proceedings of International Conference on Data Science and Applications - Mukesh Saraswat 2021-11-22

This book gathers outstanding papers presented at the International Conference on Data Science and Applications (ICDSA 2021), organized by Soft Computing Research Society (SCRS) and Jadavpur University, Kolkata, India, from April 10 to 11, 2021. It covers theoretical and empirical developments in various areas of big data analytics, big data technologies, decision tree learning, wireless communication, wireless sensor networking, bioinformatics and systems, artificial neural networks, deep learning, genetic algorithms, data mining, fuzzy logic, optimization algorithms, image processing, computational intelligence in civil engineering, and creative computing.

Cultural Foundations of Mathematics - C. K. Raju 2007

The Volume Examines, In Depth, The Implications Of Indian History And Philosophy For Contemporary Mathematics And Science. The Conclusions Challenge Current Formal Mathematics And Its Basis In The Western Dogma That Deduction Is Infallible (Or That It Is Less Fallible Than Induction). The Development Of The Calculus In India, Over A Thousand Years, Is Exhaustively Documented In This Volume, Along With Novel Insights, And Is Related To The Key Sources Of Wealth-Monsoon-Dependent Agriculture And Navigation Required For Overseas Trade - And The Corresponding Requirement Of Timekeeping. Rectefing The Usual Double Standard Of Evidence Used To Construct Eurocentric History, A Single, New Standard Of Evidence For Transmissions Is Proposed. Using This, It Is Pointed Out That Jesuits In Cochin, Following The Toledo Model Of Translation, Had Long-Term Opportunity To Transmit Indian Calculus Texts To Europe. The European Navigational Problem Of Determining Latitude, Longitude, And Loxodromes, And The 1582 Gregorian Calendar-Reform, Provided Ample Motivation. The Mathematics In These Earlier Indian Texts Suddenly Starts Appearing In European Works From The Mid-16Th Century Onwards, Providing Compelling Circumstantial Evidence. While The Calculus In India

Had Valid Pramana, This Differed From Western Notions Of Proof, And The Indian (Algorismus) Notion Of Number Differed From The European (Abacus) Notion. Hence, Like Their Earlier Difficulties With The Algorismus, Europeans Had Difficulties In Understanding The Calculus, Which, Like Computer Technology, Enhanced The Ability To Calculate, Albeit In A Way Regarded As Epistemologically Insecure. Present-Day Difficulties In Learning Mathematics Are Related, Via Phylogeny Is Ontogeny , To These Historical Difficulties In Assimilating Imported Mathematics. An Appendix Takes Up Further Contemporary Implications Of The New Philosophy Of Mathematics For The Extension Of The Calculus, Which Is Needed To Handle The Infinities Arising In The Study Of Shock Waves And The Renormalization Problem Of Quantum Field Theory.

Affine Space Fibrations - Rajendra V. Gurjar 2021-07-05

Affine algebraic geometry has progressed remarkably in the last half a century, and its central topics are affine spaces and affine space fibrations. This authoritative book is aimed at graduate students and researchers alike, and studies the geometry and topology of morphisms of algebraic varieties whose general fibers are isomorphic to the affine space while describing structures of algebraic varieties with such affine space fibrations.

Education Policy in India - J. C. Aggarwal 1992

Since The Adoption Of The 1968 Policy Of Education, The Most Notable Development Has Been The Acceptance Of A Common Structure Of Education Throughout The Country. The Book Focuses On The Review Of Npe 1986 In 1992 And The Efforts Made In The Implementation Of The Npe; And The Modifications Made. While Discussing The Various Dimensions Of The Npe, Attention Is Also Given To The Restructuring Of The Curriculum Covering Salient Features Of National Curriculum Framework For School Education 2000 And National Curriculum Framework 2005. It Is Hoped That The Book May Be A Useful Source Of Information For All Sections, Engaged In The Revamping Of The Educational System In India.

Dictionary of Minor Planet Names - Lutz D. Schmadel 2009-06-23

The history and rapid development of minor planet dis In addition to citing the bibliographic source of the nam coveries constitute a fascinating story and one with a ing, we also provide the source of numbering. A spe rather breathtaking evolution. By October 2005, the cial concordance list will enable the evaluation of the total of numbered planets exceeded the remarkable cor respective publication dates. The complete work is, nerstone of 100,000 objects and only three years later of course, a thoroughly revised and considerably en in November 2008 we are even faced with minor planet larged data collection and every e?ort has been made () 200000 . This dramatic evolution must be compared to check and correct each single piece of information () with the huge time span of two centuries 1801–2000 again. For even more detailed information on the dis that was necessary to detect and to re?ne the orbits of covery circumstances of numbered but unnamed plan only the ?rst 20,000 minor planets. Nowadays, we need ets, the reader is referred to the extensive data ?les even less than 13 months for the same quantity! At the compiled by the Minor Planet Center. end of 2005, we had achieved a total of 12,804 named (

According to a resolution of IAU Division III 2000, minor planets a fraction of less than 11 per cent of) Manchester IAU General Assembly DMPN attained all numbered minor planets.

History of Science and Philosophy of Science - Pradip Kumar Sengupta 2010

Proceedings of the International Congress of Mathematicians - Rajendra Bhatia 2011-06-06

ICM 2010 proceedings comprise a four-volume set containing articles based on plenary lectures and invited section lectures, the Abel and Noether lectures, as well as contributions based on lectures delivered by the recipients of the Fields Medal, the Nevanlinna, and Chern Prizes. The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress

Science and Modern India: An Institutional History, c.1784-1947: Project of History of Science, Philosophy and Culture in Indian Civilization, Volume XV, Part 4 - Das Gupta 2011

Science and Modern India: An Institutional History, c.1784-1947: Project of History of Science, Philosophy and Culture in Indian Civilization, Volume XV, Part 4 comprises chapters contributed by eminent scholars. It discusses the historical background of the establishment of science institutes that were established in pre-Independence India, and still exist, their functions and their present status. This volume discusses Indian science institutes that specialize in a particular field. It also delves into the area of engineering sciences.

Human Eye Imaging and Modeling - E. Y. K. Ng 2012-06-05

Advanced image processing and mathematical modeling techniques are increasingly being used for the early diagnosis of eye diseases. A comprehensive review of the field, Human Eye Imaging and Modeling details the latest advances and analytical techniques in ocular imaging and modeling. The first part of the book looks at imaging of the fundus as well as infrared imaging. It begins by exploring developments in the analysis of fundus images, particularly for the diagnosis of diabetic retinopathy and glaucoma. It also reviews anterior segment imaging and reports on developments in ocular thermography, especially the use of thermal imaging as the basis of tear evaporimetry and dry eye diagnosis. The second part of the book delves into mathematical modeling of the human eye. Coverage includes modeling of the eye during retinal laser surgery, a framework for optical simulation, heat distribution using a 3D web-splines solution, and exposure to laser radiation. The text also examines computer simulation of the human eye based on principles of heat transfer, as well as various bioheat equations to predict interior temperatures based on the surface temperature. Featuring contributions by established experts in eye imaging, this is a valuable reference for medical personnel and researchers who want to know more about state-of-the-art computer-based imaging and detection methods. It presents novel imaging and modeling algorithms that can aid in early diagnosis, with the aim of enriching the lives of people suffering from eye abnormalities.

Big Data Computing - Rajendra Akerkar 2013-12-05

Due to market forces and technological evolution, Big Data computing is developing at an increasing rate. A wide variety of novel approaches and tools have emerged to tackle the challenges of Big Data, creating both more opportunities and more challenges for students and professionals in the field of data computation and analysis. Presenting a mix of industry cases and theory, Big Data Computing discusses the technical and practical issues related to Big Data in intelligent information management. Emphasizing the adoption and diffusion of Big Data tools and technologies in industry, the book introduces a broad range of Big Data concepts, tools, and techniques. It covers a wide range of research, and provides comparisons between state-of-the-art approaches. Comprised of five sections, the book focuses on: What Big Data is and why it is important Semantic technologies Tools and methods Business and economic perspectives Big Data applications across industries

The Science of Breath and the Philosophy of the Tattvas - Rāma Prasāda 1897

Although the Hindu tattvas have been a part of Western magical practice since the Victorian era, information about them is remarkably difficult to find. This book goes some way towards bridging the gap.

Knowledge-Based Systems - Rajendra Akerkar 2010-08-30

Knowledge Based Systems (KBS) are systems that use artificial intelligence techniques in the problem solving process. This text is designed to develop an appreciation of KBS and their architecture and to help users understand a broad variety of knowledge based techniques for decision support and planning. It assumes basic computer science skills and a math background that includes set theory, relations, elementary probability, and introductory concepts of artificial intelligence. Each of the 12 chapters are designed to be modular providing instructors with the flexibility to model the book to their own course needs. Exercises are incorporated throughout the text to highlight certain aspects of the material being presented and to stimulate thought and discussion.

Numerical Linear Algebra - Lloyd N. Trefethen 1997-06-01

Numerical Linear Algebra is a concise, insightful, and elegant introduction to the field of numerical linear algebra.

Proceedings Of The International Congress Of Mathematicians 2010 (Icm 2010) (In 4 Volumes) - Vol. I: Plenary Lectures And Ceremonies, Vols. Ii-iv: Invited Lectures - Bhatia Rajendra 2011-06-06

ICM 2010 proceedings comprises a four-volume set containing articles based on plenary lectures and invited section lectures, the Abel and Noether lectures, as well as contributions based on lectures delivered by the recipients of the Fields Medal, the Nevanlinna, and Chern Prizes. The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress.

Mathematical Foundation of Computer Science - J. Rajendra Prasad 2009

Matrix Information Geometry - Frank Nielsen 2012-08-07

This book presents advances in matrix and tensor data processing in the domain of signal, image and information processing. The theoretical mathematical approaches are discusses in the context of potential applications in sensor and cognitive systems engineering. The topics and application include Information Geometry, Differential Geometry of structured Matrix, Positive Definite Matrix, Covariance Matrix, Sensors (Electromagnetic Fields, Acoustic sensors) and Applications in Cognitive systems, in particular Data Mining.

Aspects of India's International Relations, 1700 to 2000 - Jayanta Kumar Ray 2007

This Volume Is A Modernist Study Of India'S International Relations, Which Traverses Pre-Colonial, Colonial And Postcolonial Perspectives. Its Fourteen Chapters Discuss Varied Subjects Related To South Asia'S Regional And International Relations, Like: (I) The Institutionalization Of British Paramountcy In India And Its Effect On The Region'S External Relations, As Well As Indigenous Responses To Colonial Rule (Ii) The Influence Of Domestic Variables Upon India'S International Relations (Iii) The Interspersion Of Ethnic, Economic And Religious Factors In The Making Of The British Indian Empire, And Later, Of The Indian State (Iv) The Paradigms Of Nature, Culture, State-Making On The One Hand, And Political Ecology And Cultural Politics Of Natural Resources On The Other (V) The Changing Character Of Foreign Corporate Involvement In India (Vi) The Development Of Science And Technology In India And The Activities Of The Armed Forces In India (Vii) The Fostering Of Formal Arrangements Such As Saarc Or Safta In South Asia And Informal Challenges To India'S Security From Non-State Actors (Viii) The Economic, Political And Cultural Consequences Of Globalization For India During The Imperial-Colonial Phases (Ix) The Evolution, In Creative Writing, Of A Discourse On The World Outside India And On India'S Relationship With It. This Volume Will Be Of Interest To Scholars And Students Of South Asian Studies, History, Political Science And International Relations, And Defence Studies.

Universities Handbook - 2010

Mathematical Reviews - 2005

The Indian National Bibliography - 2010-07

Indian National Bibliography - B. S. Kesavan 2010-12

Mining Intelligence and Knowledge Exploration - Ashish Ghosh 2017-12-05

This book constitutes the refereed post-conference proceedings of the 5th International Conference on Mining Intelligence and Knowledge Exploration, MIKE 2017, held in Hyderabad, India, in December 2017. The 40 full papers presented were carefully reviewed and selected from 139 submissions. The papers were grouped into various subtopics including artificial intelligence, machine learning, image processing, pattern recognition, speech processing, information retrieval, natural language processing, social network analysis, security, and fuzzy rough sets.

Science and Technology Education and Future Human Needs - J. L. Lewis 2014-05-17

Science and Technology Education and Future Human Needs is a collection of papers that tackle concerns in the education of future scientists, particularly concerns in identifying techniques and resource material. The title first covers the impact of science on society, and then proceeds to tackling the relevance of science. Next, the selection talks about the revision of science curricula. Chapter 4 deals with science education and the needs of developing countries, while Chapter 5 talks about problems in implementation. The sixth chapter covers the balance between technology and environment in development, and the seventh chapter tackles the nutritional concerns in national development. In the last chapter, the text talks about addressing human needs first before developing science and technology. The book will be of great interest to individuals concerned with the progress of science and technology.

The Geometry of Uncertainty - Fabio Cuzzolin 2020-12-17

The principal aim of this book is to introduce to the widest possible audience an original view of belief calculus and uncertainty theory. In this geometric approach to uncertainty, uncertainty measures can be seen as points of a suitably complex geometric space, and manipulated in that space, for example, combined or conditioned. In the chapters in Part I, Theories of Uncertainty, the author offers an extensive recapitulation of the state of the art in the mathematics of uncertainty. This part of the book contains the most comprehensive summary to date of the whole of belief theory, with Chap. 4 outlining for the first time, and in a logical order, all the steps of the reasoning chain associated with modelling uncertainty using belief functions, in an attempt to provide a self-contained manual for the working scientist. In addition, the book proposes in Chap. 5 what is possibly the most detailed compendium available of all theories of uncertainty. Part II, The Geometry of Uncertainty, is the core of this book, as it introduces the author's own geometric approach to uncertainty theory, starting with the geometry of belief functions: Chap. 7 studies the geometry of the space of belief functions, or belief space, both in terms of a simplex and in terms of its recursive bundle structure; Chap. 8 extends the analysis to Dempster's rule of combination, introducing the notion of a conditional subspace and outlining a simple geometric construction for Dempster's sum; Chap. 9 delves into the combinatorial properties of plausibility and commonality functions, as equivalent representations of the evidence carried by a belief function; then Chap. 10 starts extending the applicability of the geometric approach to other uncertainty measures, focusing in particular on possibility measures (consonant belief functions) and the related notion of a consistent belief function. The chapters in Part III, Geometric Interplays, are concerned with the interplay of uncertainty measures of different kinds, and the geometry of their relationship, with a particular focus on the approximation problem. Part IV, Geometric Reasoning, examines the application of

the geometric approach to the various elements of the reasoning chain illustrated in Chap. 4, in particular conditioning and decision making. Part V concludes the book by outlining a future, complete statistical theory of random sets, future extensions of the geometric approach, and identifying high-impact applications to climate change, machine learning and artificial intelligence. The book is suitable for researchers in artificial intelligence, statistics, and applied science engaged with theories of uncertainty. The book is supported with the most comprehensive bibliography on belief and uncertainty theory.

Endless Siege - KRZYSZTOF. IWANEK 2022-06-13

This is an ethnographic study of the Vidya Bharati chain of schools in India which are run by a Hindu nationalist organization called the Rashtriya Swayamsevak Sangh (RSS). The first study of its kind, this volume is an important narrative on the role and impact of textbooks in modern India. Despite having limited resources (they are run on a tight budget) and being based on a radical ideology that derives from a 'Hindu' nationalist agenda, the Vidya Bharati schools have achieved considerable success in the free market of private education and have grown to over 12,000 schools within 40 years. They are an important example of the interlinkage between ideology and nationalism in contemporary India. The author analyses school structure, curriculum, teaching quality, institutional goals, and ideology in an effort to identify reasons behind Vidya Bharati's success and to show through his field research that a combined strategy of pragmatism blended with ideology has allowed the schools to become highly sought-after. This analysis then asks broader questions about the failures of the public education system in India.

Discrete Mathematics - Rajendra Akerkar

Discrete Mathematics provides an introduction to some of the fundamental concepts in modern mathematics. Abundant examples help explain the principles and practices of discrete mathematics. The book intends to cover material required by readers for whom mathematics is just a tool, as well as provide a strong foundation for mathematics majors. The vital role that discrete mathematics plays in computer science is strongly emphasized as well. The book is useful for students and instructors, and also software professionals.

Economic History of Medieval India, 1200-1500 - Irfan Habib 2011

Nature-Inspired Optimization Algorithms - Vasuki A 2020-05-31

Nature-Inspired Optimization Algorithms, a comprehensive work on the most popular optimization algorithms based on nature, starts with an overview of optimization going from the classical to the latest swarm intelligence algorithm. Nature has a rich abundance of flora and fauna that inspired the development of optimization techniques, providing us with simple solutions to complex problems in an effective and adaptive manner. The study of the intelligent survival strategies of animals, birds, and insects in a hostile and ever-changing environment has led to the development of techniques emulating their behavior. This book is a lucid description of fifteen important existing optimization algorithms based on swarm intelligence and superior in performance. It is a valuable resource for engineers, researchers, faculty, and students who are devising optimum solutions to any type of problem ranging from computer science to economics and covering diverse areas that require maximizing output and minimizing resources. This is the crux of all optimization algorithms. Features: Detailed description of the algorithms along with pseudocode and flowchart Easy translation to program code that is also readily available in Mathworks website for some of the algorithms Simple examples demonstrating the optimization strategies are provided to enhance understanding Standard applications and benchmark datasets for testing and validating the algorithms are included This book is a reference for undergraduate and post-graduate students. It will be useful to faculty members teaching optimization. It is also a comprehensive guide for researchers who are looking for optimizing resources in attaining the best solution to a problem. The nature-inspired optimization algorithms are unconventional, and this makes them more efficient than their traditional counterparts.

Mathematical Foundation of Computer Science - Ruchi Singhal 2009-01-01

American Book Publishing Record - 2005

Discrete Mathematics - Rajendra Akerkar 2008

The Amazing World of Quantum Computing - Rajendra K. Bera 2020-03-14

This book discusses the application of quantum mechanics to computing. It explains the fundamental concepts of quantum mechanics and then goes on to discuss various elements of mathematics required for quantum computing. Quantum cryptography, waves and Fourier analysis, measuring quantum systems, comparison to classical mechanics, quantum gates, and important algorithms in quantum computing are among the topics covered. The book offers a valuable resource for graduate and senior undergraduate students in STEM (science, technology, engineering, and mathematics) fields with an interest in designing quantum algorithms. Readers are expected to have a firm grasp of linear algebra and some familiarity with Fourier analysis.

Connected at infinity II: a selection of mathematics by Indians - Rajendra Bhatia 2013-01-01

Jonas and Kovner's Health Care Delivery in the United States - 2014-05-14

How do we understand and also assess the health care of America? Where is health care provided? What are the characteristics of those institutions which provide it? Over the short term, how are changes in health care provisions affecting the health of the population, the cost of care, and access to care?. Health Care Delivery in the United States, now in a thoroughly updated and revised 9th edition, discusses these and other core issues in the field. Under the editorship of Dr. Kovner and with the addition of Dr. James Knickman, Senior VP of Evaluation, Robert Wood Johnson Foundation, leading thinkers and practitioners in the field examine how medical knowledge creates new healthcare services. Emerging and recurrent issues from wide perspectives of health policy and public health are also discussed. With an easy to understand format and a focus on the major core challenges of the delivery of health care, this is the textbook of choice for course work in health care, the reference

for administrators and policy makers, and the standard for in-service training programs.;chapter

Proceedings of CECNet 2021 - A.J. Tallón-Ballesteros 2022-01-19

It is almost impossible to imagine life today without the electronics, communications and networks we have all come to take for granted. The 6G network is currently under development and some chips able to operate at the Terahertz (THz) scale have already been introduced, so the next decade will probably see the consolidation of 6G-based technology, as well as many compliant devices. This book presents the proceedings of the 11th International Conference on Electronics, Communications and Networks (CECNet 2021), initially planned to be held from 18-21 November 2021 in Beijing, China, but ultimately held as an online event due to ongoing COVID-19 restrictions. The CECNet series is now an established annual event attracting participants in the interrelated fields of electronics, computers, communications and wireless communications engineering and technology from around the world. Careful review by program committee members, who took into consideration the breadth and depth of those research topics that fall within the scope of CECNet, resulted in the selection of the 88 papers presented here from the 325 submissions received. This represents an acceptance rate of around 27%. Providing an overview of current research and developments in these rapidly evolving fields, the book will be of interest to all those working with digital communications networks.

From Physiology and Chemistry to Biochemistry - D. P. Burma 2011

Building an Intelligent Web - Rajendra Akerkar 2008

The World Wide Web has become an extremely popular way of publishing and distributing electronic resources. Though the Web is rich with information, collecting and making sense of this data is difficult because it is rather unorganized. Building an Intelligent Web introduces students and professionals to the state-of-the art development of Web Intelligence techniques and teaches how to apply these techniques to develop the next generation of intelligent Web sites. Each chapter contains theoretical bases, which are also illustrated with the help of simple numeric examples, followed by practical implementation. Students will find Building an Intelligent Web to be an active and exciting introduction to advanced Web mining topics. Topics covered include Web Intelligence, Information Retrieval, Semantic Web, Classification and Association Rules, SQL, Database Theory, Applications to e-commerce and Bioinformatics, Clustering, Modeling Web Topology, and much more!

Ganita - 1997