

Read Free Rajesh Shukla Basic Computer Engineering Pdf For Free

Basic Computer Engineering Precise Basic Computer Engineering Computers and Their Applications to Chemistry Haskell Data Analysis Cookbook Advances in Computer and Computational Sciences Social Networking and Computational Intelligence Intelligent Computing, Networking, and Informatics Computing Fundamentals and Programming in C Advanced Data Structures Research Developments in Computer Vision and Image Processing: Methodologies and Applications Dictionary of Computer Science, Engineering and Technology Embedded Computing Systems: Applications, Optimization, and Advanced Design Soft Computing for Problem Solving Fundamental Problems in Computing Data Literacy High Performance Computing - HiPC 2004 Computer Vision and Robotics Proceedings of 3rd International Conference on Computer Vision and Image Processing Computing and Network Sustainability Soft Computing Techniques in Vision Science Machine Learning with TensorFlow Data Literacy Data Science and Big Data Analytics Neuro-Computers Data Literacy Data Literacy Data Literacy Logical Foundations of Computer Science Innovations

*and Implementations of Computer Aided Drug
Discovery Strategies in Rational Drug Design
Intelligent Computing Data Literacy New Trends
in Computational Vision and Bio-inspired
Computing Proceeding of Fifth International
Conference on Microelectronics, Computing and
Communication Systems Interdisciplinary
Advances in Information Technology Research
Telecosmos Advances in Electronics,
Communication and Computing Proceedings of the
International Conference on Cognitive and
Intelligent Computing Soil Physics
Computational Chemistry: Reviews of Current
Trends Ontario Labour Relations Board Reports*

Basic Computer Engineering Jan 21 2023

*Logical Foundations of Computer Science Oct
26 2020 This book constitutes the refereed
proceedings of the International Symposium on
Logical Foundations of Computer Science, LFCS
2013, held in San Diego, CA, USA in January
2013. The volume presents 29 revised refereed
papers carefully selected by the program
committee. The scope of the Symposium is broad
and includes constructive mathematics and type
theory; logic, automata and automatic
structures; computability and randomness;
logical foundations of programming; logical
aspects of computational complexity; logic
programming and constraints; automated*

deduction and interactive theorem proving; logical methods in protocol and program verification; logical methods in program specification and extraction; domain theory logic; logical foundations of database theory; equational logic and term rewriting; lambda and combinatory calculi; categorical logic and topological semantics; linear logic; epistemic and temporal logics; intelligent and multiple agent system logics; logics of proof and justification; nonmonotonic reasoning; logic in game theory and social software; logic of hybrid systems; distributed system logics; mathematical fuzzy logic; system design logics; and other logics in computer science.

Data Literacy Jul 23 2020 Data literacy is the ability to read, understand, create, and communicate data as information. Much like literacy as a general concept, data literacy focuses on the competencies involved in working with data. This book enables the readers to educate themselves more about Data Literacy with practical hands-on Microsoft Azure cloud computing service.

Soil Physics Dec 16 2019 Designed for undergraduate and graduate students, this book covers important soil physical properties, critical physical processes involving energy and mass transport, movement and retention of water and solutes through soil profile, soil

temperature regimes and aeration, and plant-water relations. It includes new concepts and numerical examples fo

Dictionary of Computer Science, Engineering and Technology Apr 12 2022 A complete lexicon of technical information, the Dictionary of Computer Science, Engineering, and Technology provides workable definitions, practical information, and enhances general computer science and engineering literacy. It spans various disciplines and industry sectors such as: telecommunications, information theory, and software and hardware systems. If you work with, or write about computers, this dictionary is the single most important resource you can put on your shelf. The dictionary addresses all aspects of computing and computer technology from multiple perspectives, including the academic, applied, and professional vantage points. Including more than 8,000 terms, it covers all major topics from artificial intelligence to programming languages, from software engineering to operating systems, and from database management to privacy issues. The definitions provided are detailed rather than concise. Written by an international team of over 80 contributors, this is the most comprehensive and easy-to-read reference of its kind. If you need to know the definition

of anything related to computers you will find it in the Dictionary of Computer Science, Engineering, and Technology.

Advanced Data Structures Jun 14 2022 Advanced data structures is a core course in Computer Science which most graduate program in Computer Science, Computer Science and Engineering, and other allied engineering disciplines, offer during the first year or first semester of the curriculum. The objective of this course is to enable students to have the much-needed foundation for advanced technical skill, leading to better problem-solving in their respective disciplines. Although the course is running in almost all the technical universities for decades, major changes in the syllabus have been observed due to the recent paradigm shift of computation which is more focused on huge data and internet-based technologies. Majority of the institute has been redefined their course content of advanced data structure to fit the current need and course material heavily relies on research papers because of nonavailability of the redefined text book advanced data structure. To the best of our knowledge well-known textbook on advanced data structure provides only partial coverage of the syllabus. The book offers comprehensive coverage of the most essential topics,

including: Part I details advancements on basic data structures, viz., cuckoo hashing, skip list, tango tree and Fibonacci heaps and index files. Part II details data structures of different evolving data domains like special data structures, temporal data structures, external memory data structures, distributed and streaming data structures. Part III elucidates the applications of these data structures on different areas of computer science viz, network, www, DBMS, cryptography, graphics to name a few. The concepts and techniques behind each data structure and their applications have been explained. Every chapter includes a variety of Illustrative Problems pertaining to the data structure(s) detailed, a summary of the technical content of the chapter and a list of Review Questions, to reinforce the comprehension of the concepts. The book could be used both as an introductory or an advanced-level textbook for the advanced undergraduate, graduate and research programmes which offer advanced data structures as a core or an elective course. While the book is primarily meant to serve as a course material for use in the classroom, it could be used as a starting point for the beginner researcher of a specific domain.

Proceeding of Fifth International Conference on Microelectronics, Computing and

Communication Systems May 21 2020 This book presents high-quality papers from the Fifth International Conference on Microelectronics, Computing & Communication Systems (MCCS 2020). It discusses the latest technological trends and advances in MEMS and nanoelectronics, wireless communication, optical communication, instrumentation, signal processing, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems and sensor network applications. It includes papers based on original theoretical, practical and experimental simulations, development, applications, measurements and testing. The applications and solutions discussed here provide excellent reference material for future product development.

Embedded Computing Systems: Applications, Optimization, and Advanced Design Mar 11 2022 Embedded computing systems play an important and complex role in the functionality of electronic devices. With our daily routines becoming more reliant on electronics for personal and professional use, the understanding of these computing systems is crucial. *Embedded Computing Systems:*

Applications, Optimization, and Advanced Design brings together theoretical and technical concepts of intelligent embedded control systems and their use in hardware and software architectures. By highlighting formal modeling, execution models, and optimal implementations, this reference source is essential for experts, researchers, and technical supporters in the industry and academia.

Proceedings of 3rd International Conference on Computer Vision and Image Processing Sep 05 2021 This book is a collection of carefully selected works presented at the Third International Conference on Computer Vision & Image Processing (CVIP 2018). The conference was organized by the Department of Computer Science and Engineering of PDPM Indian Institute of Information Technology, Design & Manufacturing, Jabalpur, India during September 29–October 01, 2018. All the papers have been rigorously reviewed by the experts from the domain. This 2 volume proceedings include technical contributions in the areas of Image/Video Processing and Analysis; Image/Video Formation and Display; Image/Video Filtering, Restoration, Enhancement and Super-resolution; Image/Video Coding and Transmission; Image/Video Storage, Retrieval and Authentication; Image/Video Quality;

Transform-based and Multi-resolution Image/Video Analysis; Biological and Perceptual Models for Image/Video Processing; Machine Learning in Image/Video Analysis; Probability and uncertainty handling for Image/Video Processing; and Motion and Tracking.

New Trends in Computational Vision and Bio-inspired Computing Jun 21 2020 This volume gathers selected, peer-reviewed original contributions presented at the International Conference on Computational Vision and Bio-inspired Computing (ICCVBIC) conference which was held in Coimbatore, India, on November 29-30, 2018. The works included here offer a rich and diverse sampling of recent developments in the fields of Computational Vision, Fuzzy, Image Processing and Bio-inspired Computing. The topics covered include computer vision; cryptography and digital privacy; machine learning and artificial neural networks; genetic algorithms and computational intelligence; the Internet of Things; and biometric systems, to name but a few. The applications discussed range from security, healthcare and epidemic control to urban computing, agriculture and robotics. In this book, researchers, graduate students and professionals will find innovative solutions to real-world problems in industry and society

as a whole, together with inspirations for further research.

Soft Computing Techniques in Vision Science
Jul 03 2021 This Special Edited Volume is a unique approach towards Computational solution for the upcoming field of study called Vision Science. From a scientific firmament Optics, Ophthalmology, and Optical Science has surpassed an Odyssey of optimizing configurations of Optical systems, Surveillance Cameras and other Nano optical devices with the metaphor of Nano Science and Technology. Still these systems are falling short of its computational aspect to achieve the pinnacle of human vision system. In this edited volume much attention has been given to address the coupling issues Computational Science and Vision Studies. It is a comprehensive collection of research works addressing various related areas of Vision Science like Visual Perception and Visual system, Cognitive Psychology, Neuroscience, Psychophysics and Ophthalmology, linguistic relativity, color vision etc. This issue carries some latest developments in the form of research articles and presentations. The volume is rich of contents with technical tools for convenient experimentation in Vision Science. There are 18 research papers having significance in an array of application areas.

The volume claims to be an effective compendium of computing developments like Frequent Pattern Mining, Genetic Algorithm, Gabor Filter, Support Vector Machine, Region Based Mask Filter, 4D stereo camera systems, Principal Component Analysis etc. The detailed analysis of the papers can immensely benefit to the researchers of this domain. It can be an Endeavour in the pursuit of adding value in the existing stock of knowledge in Vision Science.

High Performance Computing - HiPC 2004 Nov 07 2021 Annotation. This book constitutes the refereed proceedings of the 11th International Conference on High-Performance Computing, HiPC 2004, held in Bangalore, India in December 2004. The 48 revised full papers presented were carefully reviewed and selected from 253 submissions. The papers are organized in topical sections on wireless network management, compilers and runtime systems, high performance scientific applications, peer-to-peer and storage systems, high performance processors and routers, grids and storage systems, energy-aware and high-performance networking, and distributed algorithms.

Data Science and Big Data Analytics Mar 31 2021 This book presents conjectural advances in big data analysis, machine learning and computational intelligence, as well as their

potential applications in scientific computing. It discusses major issues pertaining to big data analysis using computational intelligence techniques, and the conjectural elements are supported by simulation and modelling applications to help address real-world problems. An extensive bibliography is provided at the end of each chapter. Further, the main content is supplemented by a wealth of figures, graphs, and tables, offering a valuable guide for researchers in the field of big data analytics and computational intelligence.

Proceedings of the International Conference on Cognitive and Intelligent Computing Jan 17 2020 This book presents original, peer-reviewed select articles from the International Conference on Cognitive & Intelligent Computing (ICCIC – 2021), held on December 11–12, 2021, at Hyderabad, India. The proceedings has cutting edge Research outcome related to Machine learning in control applications, Soft computing, Pattern Recognition, Decision Support Systems, Text analytics and NLP, Statistical Learning, Neural Network Learning, Learning Through Fuzzy Logic, Learning Through Evolution (Evolutionary Algorithms), Reinforcement Learning, Multi-Strategy Learning, Cooperative Learning, Planning And Learning, Multi-Agent

Learning, Online And Incremental Learning, Scalability Of Learning Algorithms, Inductive Learning, Inductive Logic Programming, Bayesian Networks, Support Vector Machines, Case-Based Reasoning, Multi-Agent Systems, Human-Computer Interaction, Data Mining and Knowledge Discovery, Knowledge Management and Networks, Data Intensive Computing Architecture, Medicine, Health, Bioinformatics, and Systems Biology, Industrial and Engineering Applications, Security Applications, Smart Cities, Game Playing and Problem Solving, Intelligent Virtual Environments, Economics, Business, And Forecasting Applications. Articles in the book are carefully selected on the basis of their application orientation. The content is expected to be especially useful for Professionals, Researchers, Research students working in the area of cognitive and intelligent computing.

Data Literacy Dec 28 2020 Data literacy is the ability to read, understand, create, and communicate data as information. Much like literacy as a general concept, data literacy focuses on the competencies involved in working with data. This book enables the readers to educate themselves more about Data Literacy with practical hands-on Microsoft Azure cloud computing service.

Data Literacy Dec 08 2021 Data literacy is the ability to read, understand, create, and communicate data as information. Much like literacy as a general concept, data literacy focuses on the competencies involved in working with data. This book enables the readers to educate themselves more about Data Literacy with practical hands-on Microsoft Azure cloud computing service.

Interdisciplinary Advances in Information Technology Research Apr 19 2020 *Over the last few decades, the constant developments in the IT field have expanded into nearly every discipline and aspect of life.*

Interdisciplinary Advances in Information Technology Research explores multiple fields and the research done as well as how they differentiate and relate to one another. This collection provides focused discussions from unique perspectives on the latest information technology research. Researchers, practitioners, and professionals will benefit from this publication's broad perspective.

Computers and Their Applications to Chemistry Dec 20 2022 *It's not just test tubes and Bunsen burners anymore. Computers now rank at or near the top of the list of a chemist's most indispensable tools, and it's safe to say that no chemistry student will get very far without a good working knowledge of computers*

and the concepts of computer programming. Designed specifically to ensure undergraduate chemistry students have this basic proficiency, *Computers and Their Applications to Chemistry* introduces the fundamentals of computers, then builds a solid foundation in programming using the BASIC programming language and simple examples from chemistry. The author's straightforward approach moves smoothly from simple to complex ideas, from elementary input/output statements through data string manipulation and searching methods to graphics and numerical methods. The last two chapters discuss a variety of available software packages particularly useful in chemistry. Each chapter includes a number of solved examples followed by a set of review questions that reinforce and stimulate interest in the ideas presented.

Computing and Network Sustainability Aug 04 2021 This book offers a compilation of technical papers presented at the International Research Symposium on Computing and Network Sustainability (IRSCNS 2018) held in Goa, India on 30–31st August 2018. It covers areas such as sustainable computing and security, sustainable systems and technologies, sustainable methodologies and applications, sustainable networks applications and solutions, user-centered

services and systems and mobile data management. Presenting novel and recent technologies, it is a valuable resource for researchers and industry professionals alike.

Intelligent Computing Aug 24 2020 This book, gathering the Proceedings of the 2018 Computing Conference, offers a remarkable collection of chapters covering a wide range of topics in intelligent systems, computing and their real-world applications. The Conference attracted a total of 568 submissions from pioneering researchers, scientists, industrial engineers, and students from all around the world. These submissions underwent a double-blind peer review process. Of those 568 submissions, 192 submissions (including 14 poster papers) were selected for inclusion in these proceedings. Despite computer science's comparatively brief history as a formal academic discipline, it has made a number of fundamental contributions to science and society—in fact, along with electronics, it is a founding science of the current epoch of human history ('the Information Age') and a main driver of the Information Revolution. The goal of this conference is to provide a platform for researchers to present fundamental contributions, and to be a premier venue for academic and industry practitioners to share new ideas and development

experiences. This book collects state of the art chapters on all aspects of Computer Science, from classical to intelligent. It covers both the theory and applications of the latest computer technologies and methodologies. Providing the state of the art in intelligent methods and techniques for solving real-world problems, along with a vision of future research, the book will be interesting and valuable for a broad readership.

Advances in Computer and Computational Sciences Oct 18 2022 Exchange of information and innovative ideas are necessary to accelerate the development of technology. With advent of technology, intelligent and soft computing techniques came into existence with a wide scope of implementation in engineering sciences. Keeping this ideology in preference, this book includes the insights that reflect the 'Advances in Computer and Computational Sciences' from upcoming researchers and leading academicians across the globe. It contains high-quality peer-reviewed papers of 'International Conference on Computer, Communication and Computational Sciences (ICCCCS 2016), held during 12-13 August, 2016 in Ajmer, India. These papers are arranged in the form of chapters. The content of the book is divided into two volumes that cover variety

of topics such as intelligent hardware and software design, advanced communications, power and energy optimization, intelligent techniques used in internet of things, intelligent image processing, advanced software engineering, evolutionary and soft computing, security and many more. This book helps the perspective readers' from computer industry and academia to derive the advances of next generation computer and communication technology and shape them into real life applications.

Haskell Data Analysis Cookbook Nov 19 2022
Step-by-step recipes filled with practical code samples and engaging examples demonstrate Haskell in practice, and then the concepts behind the code. This book shows functional developers and analysts how to leverage their existing knowledge of Haskell specifically for high-quality data analysis. A good understanding of data sets and functional programming is assumed.

Basic Computer Engineering Precise Feb 22 2023

Research Developments in Computer Vision and Image Processing: Methodologies and Applications May 13 2022
Similar to the way in which computer vision and computer graphics act as the dual fields that connect image processing in modern computer science, the

field of image processing can be considered a crucial middle road between the vision and graphics fields. *Research Developments in Computer Vision and Image Processing: Methodologies and Applications* brings together various research methodologies and trends in emerging areas of application of computer vision and image processing. This book is useful for students, researchers, scientists, and engineers interested in the research developments of this rapidly growing field.

Computer Vision and Robotics Oct 06 2021 This book consists of a collection of the high-quality research articles in the field of computer vision and robotics which are presented in the International Conference on Computer Vision and Robotics (CVR 2021), organized by BBD University Lucknow, India, during 7–8 August 2021. The book discusses applications of computer vision and robotics in the fields like medical science, defence, and smart city planning. The book presents recent works from researchers, academicians, industry, and policy makers.

Telecosmos Mar 19 2020 Although telecom companies are battling for survival, technology is moving forward. In research laboratories around the world, powerful new technologies are being developed that will shape tomorrow's communications world.

Telecosmos will look at the many different telecom concepts that will be adopted by both consumers and businesses in the years ahead.

Computing Fundamentals and Programming in C
Jul 15 2022 The complete spectrum of computing fundamentals starting from abc of computer to internet usage has been well covered in simple and readers loving style, The language used in the book is lucid, is easy to understand, and facilitates easy grasping of concepts, The chapter have been logically arranged in sequence, The book is written in a reader-friendly manner both the students and the teachers, Most of the contents presented in the book are in the form of bullets, organized sequentially. This form of presentation, rather than in a paragraph form, facilitates the reader to view, understand and remember the points better, The explanation is supported by diagrams, pictures and images wherever required, Sufficient exercises have been included for practice in addition to the solved examples in every chapter related to C programming, Concepts of pointers, structures, Union and file management have been extensively detailed to help advance learners, Adequate exercises have been given at the end of the every chapter, Pedagogy followed for sequencing the contents on C programming supported by adequate programming examples is

likely to help the reader to become proficient very soon, 200 problems on C programming & their solutions, 250 Additional descriptive questions on C programming.

Advances in Electronics, Communication and Computing Feb 16 2020 This book is a compilation of research work in the interdisciplinary areas of electronics, communication, and computing. This book is specifically targeted at students, research scholars and academicians. The book covers the different approaches and techniques for specific applications, such as particle-swarm optimization, Otsu's function and harmony search optimization algorithm, triple gate silicon on insulator (SOI)MOSFET, micro-Raman and Fourier Transform Infrared Spectroscopy (FTIR) analysis, high-k dielectric gate oxide, spectrum sensing in cognitive radio, microstrip antenna, Ground-penetrating radar (GPR) with conducting surfaces, and digital image forgery detection. The contents of the book will be useful to academic and professional researchers alike.

Intelligent Computing, Networking, and Informatics Aug 16 2022 This book is composed of the Proceedings of the International Conference on Advanced Computing, Networking, and Informatics (ICACNI 2013), held at Central Institute of Technology, Raipur, Chhattisgarh,

India during June 14–16, 2013. The book records current research articles in the domain of computing, networking, and informatics. The book presents original research articles, case-studies, as well as review articles in the said field of study with emphasis on their implementation and practical application. Researchers, academicians, practitioners, and industry policy makers around the globe have contributed towards formation of this book with their valuable research submissions.

Fundamental Problems in Computing Jan 09 2022
Not applicable for bookstore catalogue

Ontario Labour Relations Board Reports Oct 14
2019

Data Literacy Jan 29 2021 Data literacy is the ability to read, understand, create, and communicate data as information. Much like literacy as a general concept, data literacy focuses on the competencies involved in working with data. This book enables the readers to educate themselves more about Data Literacy with practical hands-on Microsoft Azure cloud computing service.

Neuro-Computers Feb 27 2021 The brain-like architecture of artificial neural networks makes them ideal for tackling problems that are too difficult for conventional architectures, specifically problems that

involve pattern recognition or other perceptual tasks. Neuro-Computers: Optimization Based Learning provides an intermediate-level exposition of the exciting world of neuro-computers. It presents the importance of neuro-computing to artificial intelligence, giving historical background and present-day implementation options. The book demonstrates the superiority of the adaptive search strategy over conventional fixed parameter searches performed by backpropagation algorithms. It then explores global optimization strategy and presents genetic algorithms as viable methods to train neuro computers on non-trivial problems. This self-contained volume is delivered in a format that is suitable for graduate students, as well as researchers who want to begin work in neuro-computing or related artificial intelligence applications.

Soft Computing for Problem Solving Feb 10 2022 This two-volume book presents outcomes of the 7th International Conference on Soft Computing for Problem Solving, SocProS 2017. This conference is a joint technical collaboration between the Soft Computing Research Society, Liverpool Hope University (UK), the Indian Institute of Technology Roorkee, the South Asian University New Delhi and the National Institute of Technology

Silchar, and brings together researchers, engineers and practitioners to discuss thought-provoking developments and challenges in order to select potential future directions. The book presents the latest advances and innovations in the interdisciplinary areas of soft computing, including original research papers in the areas including, but not limited to, algorithms (artificial immune systems, artificial neural networks, genetic algorithms, genetic programming, and particle swarm optimization) and applications (control systems, data mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). It is a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems for which finding a solution by traditional methods is a difficult task.

Computational Chemistry: Reviews of Current Trends Nov 14 2019 The gap between experimental objects and models for calculations in chemistry is being bridged. The size of experimental nano-objects is decreasing, while reliable calculations are feasible for larger and larger molecular systems. The results of these calculations for isolated molecules are becoming more relevant for experiments. However, there are still

significant challenges for computational methods. This series of books presents reviews of current advances in computational methodologies and applications. Chapter 1 of this volume provides an overview of the theoretical and numerical aspects in the development of the polarizable continuum model (PCM). Chapter 2 demonstrates a multiplicative scheme used to estimate the properties of two- and three-dimensional clusters from the properties of their one-dimensional components. Chapter 3 discusses the application of *ab initio* methods for a reliable evaluation of the characteristics of hydrogen-bonded and van der Waals complexes. *Ab initio* quantum-chemical methods are popular among researchers investigating various aspects of DNA. The properties of DNA base polyads linked by base-base hydrogen bonds are reviewed in Chapter 4, while Chapter 5 reviews the primary radiation-induced defects in nucleic acid building blocks, and how DNA can be influenced by chemical and environmental effects. Finally, Chapter 6 discusses available experimental data of DNA bases, base pairs, and their complexes with water.

Contents: Computational Modelling of the Solvent Effects on Molecular Properties: An Overview of the Polarizable Continuum Model (PCM) Approach (R Cammi et al.) Electronic and

Nonlinear Optical Properties of 2-Methyl-4-Nitroaniline Clusters (M Guillaume et al.)
Ab Initio Calculations of the Intermolecular Nuclear Spin-Spin Coupling Constants (M Pecul & J Sadlej)
Base Polyad Motifs in Nucleic Acids – Biological Significance, Occurrence in Three-Dimensional Experimental Structures and Computational Studies (M Meyer & J Sühnel)
Model Calculations of Radiation Induced Damage in DNA Constituents Using Density Functional Theory (D M Close)
Excited States of Nucleic Acid Bases (M K Shukla & J Leszczynski) Readership: Graduate students and researchers in computational chemistry.

Keywords: Computational Chemistry

Social Networking and Computational Intelligence Sep 17 2022 This book presents a selection of revised and extended versions of the best papers from the First International Conference on Social Networking and Computational Intelligence (SCI-2018), held in Bhopal, India, from October 5 to 6, 2018. It discusses recent advances in scientific developments and applications in these areas.

Machine Learning with TensorFlow Jun 02 2021 Summary Machine Learning with TensorFlow gives readers a solid foundation in machine-learning concepts plus hands-on experience coding TensorFlow with Python. Purchase of the print

book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology TensorFlow, Google's library for large-scale machine learning, simplifies often-complex computations by representing them as graphs and efficiently mapping parts of the graphs to machines in a cluster or to the processors of a single machine. About the Book Machine Learning with TensorFlow gives readers a solid foundation in machine-learning concepts plus hands-on experience coding TensorFlow with Python. You'll learn the basics by working with classic prediction, classification, and clustering algorithms. Then, you'll move on to the money chapters: exploration of deep-learning concepts like autoencoders, recurrent neural networks, and reinforcement learning. Digest this book and you will be ready to use TensorFlow for machine-learning and deep-learning applications of your own. What's Inside Matching your tasks to the right machine-learning and deep-learning approaches Visualizing algorithms with TensorBoard Understanding and using neural networks About the Reader Written for developers experienced with Python and algebraic concepts like vectors and matrices. About the Author Author Nishant Shukla is a computer vision researcher focused on applying machine-learning

techniques in robotics. Senior technical editor, Kenneth Fricklas, is a seasoned developer, author, and machine-learning practitioner. Table of Contents PART 1 - YOUR MACHINE-LEARNING RIG A machine-learning odyssey TensorFlow essentials PART 2 - CORE LEARNING ALGORITHMS Linear regression and beyond A gentle introduction to classification Automatically clustering data Hidden Markov models PART 3 - THE NEURAL NETWORK PARADIGM A peek into autoencoders Reinforcement learning Convolutional neural networks Recurrent neural networks Sequence-to-sequence models for chatbots Utility landscape

Data Literacy May 01 2021 Data literacy is the ability to read, understand, create, and communicate data as information. Much like literacy as a general concept, data literacy focuses on the competencies involved in working with data. This book enables the readers to educate themselves more about Data Literacy with practical hands-on Microsoft Azure cloud computing service.

Innovations and Implementations of Computer Aided Drug Discovery Strategies in Rational Drug Design Sep 24 2020 This book presents various computer-aided drug discovery methods for the design and development of ligand and structure-based drug molecules. A wide variety of computational approaches are now being used

in various stages of drug discovery and development, as well as in clinical studies. Yet, despite the rapid advances in computer software and hardware, combined with the exponential growth in the available biological information, there are many challenges that still need to be addressed, as this book shows. In turn, it shares valuable insights into receptor-ligand interactions in connection with various biological functions and human diseases. The book discusses a wide range of phylogenetic methods and highlights the applications of Molecular Dynamics Simulation in the drug discovery process. It also explores the application of quantum mechanics in order to provide better accuracy when calculating protein-ligand binding interactions and predicting binding affinities. In closing, the book provides illustrative descriptions of major challenges associated with computer-aided drug discovery for the development of therapeutic drugs. Given its scope, it offers a valuable asset for life sciences researchers, medicinal chemists and bioinformaticians looking for the latest information on computer-aided methodologies for drug development, together with their applications in drug discovery.

Data Literacy Nov 26 2020 Data literacy is the ability to read, understand, create, and

communicate data as information. Much like literacy as a general concept, data literacy focuses on the competencies involved in working with data. This book enables the readers to educate themselves more about Data Literacy with practical hands-on Microsoft Azure cloud computing service.

file-us.apowersoft.com