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 Non-convex Optimization for Machine Learning
 Databases Theory and Applications
 Data Management and Analytics for Medicine and Healthcare
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 SQL for Data Science
 Handling Priority Inversion in Time-Constrained Distributed Databases
 Temel Pratik Cerrahi
 Beginning with SQL
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MATTHEWS ASHLEY

Data Science for Effective Healthcare Systems Cambridge University Press

The infrastructure-as-code revolution in IT is also affecting database administration. With this practical book, developers, system administrators, and junior to mid-level DBAs will learn how the modern practice of site reliability engineering applies to the craft of database architecture and operations. Authors Laine Campbell and Charity Majors provide a framework for professionals looking to join the ranks of today's database reliability engineers (DBRE). You'll begin by exploring core operational concepts that DBREs need to master. Then you'll examine a wide range of database persistence options, including how to implement key technologies to provide resilient, scalable, and performant data storage and retrieval. With a firm foundation in database reliability engineering, you'll be ready to dive into the architecture and operations of any modern database. This book

covers: Service-level requirements and risk management Building and evolving an architecture for operational visibility Infrastructure engineering and infrastructure management How to facilitate the release management process Data storage, indexing, and replication Identifying datastore characteristics and best use cases Datastore architectural components and data-driven architectures

Sağlık Yönetimi Güncel Konular ve Pratik Bilgiler Lulu.com

This book presents a remarkable collection of chapters that cover a wide range of topics in the areas of information and communication technologies and their real-world applications. It gathers the Proceedings of the Future of Information and Communication Conference 2019 (FICC 2019), held in San Francisco, USA from March 14 to 15, 2019. The conference attracted a total of 462 submissions from pioneering researchers, scientists, industrial engineers, and students from all around the world. Following a double-blind peer review process, 160 submissions (including 15 poster papers) were ultimately selected for inclusion in these proceedings. The papers highlight relevant trends in, and the latest research on: Communication,

Data Science, Ambient Intelligence, Networking, Computing, Security, and the Internet of Things. Further, they address all aspects of Information Science and communication technologies, from classical to intelligent, and both the theory and applications of the latest technologies and methodologies. Gathering chapters that discuss state-of-the-art intelligent methods and techniques for solving real-world problems, along with future research directions, the book represents both an interesting read and a valuable asset.

RDBMS In-Depth Springer

In the computer science industry, high levels of performance remain the focal point in software engineering. This quest has made current systems exceedingly complex, as practitioners strive to discover novel approaches to increase the capabilities of modern computer structures. A prevalent area of research in recent years is scalable transaction processing and its usage in large databases and cloud computing. Despite its popularity, there remains a need for significant research in the understanding of scalability and its performance within distributed databases. Handling Priority Inversion in Time-Constrained Distributed Databases provides emerging research exploring the theoretical and practical aspects of database transaction processing frameworks and improving their performance using modern technologies and algorithms. Featuring coverage on a broad range of topics such as consistency mechanisms, real-time systems, and replica management, this book is ideally designed for IT professionals, computing specialists, developers, researchers, data engineers, executives, academics, and students seeking research on current trends and developments in distributed computing and databases.

Federated Learning CRC Press

Striking a balance between the technical characteristics of the subject and the practical aspects of decision making, spanning from fraud analytics in claims management, to customer analytics, to risk analytics in solvency, the comprehensive coverage presented makes Big Data an invaluable resource for any insurance professional.

Pratik Geriatri Elsevier

2023-24 UGC-NET/JRF/GATE/IES /PSU/UPPSC AE. Computer Science & Engineering/Information Technology Capsule Quick Revision

Database Reliability Engineering Springer

Temel Pratik Cerrahi

Handbook of Research on Recent Perspectives on Management, International Trade, and Logistics World Scientific

This book gives a complete overview of cloud computing: its importance, its trends, innovations, and its amalgamation with other technologies. Key Features: In-depth explanation of emerging technologies utilizing cloud computing Supplemented with visuals, flow charts, and diagrams Real-time examples included Caters to beginners, as well as advanced researchers, by explaining implications, innovations, issues, and challenges of cloud computing Highlights the need for cloud computing and the true benefits derived by its application and integration in emerging technologies Simple, easy language

Jinekolojide Pratik Bilgiler I. K. International Pvt Ltd

Sağlık sisteminin son yüzyılı gözden geçirdiğimizde, dikkat çeken en önemli nokta doğumdan itibaren beklenen yaşam süresinin belirgin bir şekilde artış göstermesidir. Bu ilerleyişin sonucunda ise sağlık, sosyal, eğitim ve ekonomi gibi birçok alanda değişim kaçınılmaz olmuştur. İlk çağlardan itibaren insanoğlu her zaman daha uzun süre yaşayabilmek için çalışmış ve elinde bulunan imkanları en verimli şekilde kullanmaya gayret göstermiştir. Bu istek ve hedef neticesinde ise gerek bilim

gerekse sağlık alanında hızlı değişim ve gelişmeler olmuştur. Artık amaç sadece daha uzun süre yaşamak değil aynı zamanda bu süreci daha kaliteli ve bağımsız bir şekilde tamamlamak, fonksiyonel rezervleri verimli bir şekilde kullanarak yaşam aktivitelerini özgürce yerine getirebilmek olmuştur. Belirtmiş olduğum bu değişim ve gelişmeler ışığında "Geriatri" diğer adıyla "Yaşlı Sağlığı ve Hastalıkları" bilim dalı da son 50 yıl içerisinde oldukça popüler bir alan haline gelmiştir. Ülkemizde ise son iki dekatta geriatri ile ilgili teorik ve pratik alanda birçok çalışmalar yapıldığını, geriatri derslerinin artık birçok üniversitede tıp eğitiminde temel müfredatta yer almaya başladığını sevinerek görmekteyiz. Bu kitabı yazarken temel hedefimiz ise geriatriye ilgi duyan ancak geriatriinin farklı disiplinleri kapsayan geniş bir yelpazeye sahip olması nedeniyle korku ve tereddütleri olan sağlık çalışanlarının bu endişelerini gidermek, onların geriatriye temas edebilmesini sağlamak ve aynı zamanda tıp fakültesinde okumakta olan genç doktor adaylarımızla, iç hastalıkları uzmanlık eğitimi almakta olan doktorlarımıza geriatriyi sevdirmektir. Kitap içerisinde yer alan her bölümün başında sunulan olgu takdimleri ve yine her bölüm sonuna konulan anahtar noktalarla konuların daha iyi pekiştirilmesi amaçlanmıştır. Geriatri ile ilgili güncel ve pratik bir yaklaşım sunan bu kitabın ortaya çıkmasında çok değerli katkılar sağlayan tüm ekip arkadaşlarıma sonsuz teşekkürü bir borç biliyorum. Saygılarımla, Prof. Dr. Zeynel Abidin Öztürk

Non-convex Optimization for Machine Learning Springer

This book constitutes the thoroughly refereed conference proceedings of the Third International Workshop on Data Management and Analytics for Medicine and Healthcare, DMAH 2017, in Munich, Germany, in September 2017, held in conjunction with the 43rd International Conference on Very Large Data Bases, VLDB 2017. The 9 revised full papers presented together with 2 keynote abstracts were carefully reviewed and selected from 16 initial submissions. The papers are organized in topical sections on data privacy and trustability for electronic health records; biomedical data management and Integration; online mining of Health related data; and clinical data analytics.

Databases Theory and Applications CRC Press

Written in lucid language, this valuable textbook brings together fundamental concepts of data mining and data warehousing in a single volume. Important topics including information theory, decision tree, Naïve Bayes classifier, distance metrics, partitioning clustering, associate mining, data marts and operational data store are discussed comprehensively. The textbook is written to cater to the needs of undergraduate students of computer science, engineering and information technology for a course on data mining and data warehousing. The text simplifies the understanding of the concepts through exercises and practical examples. Chapters such as classification, associate mining and cluster analysis are discussed in detail with their practical implementation using Weka and R language data mining tools. Advanced topics including big data analytics, relational data models and NoSQL are discussed in detail. Pedagogical features including unsolved problems and multiple-choice questions are interspersed throughout the book for better understanding.

Data Management and Analytics for Medicine and Healthcare

McGraw-Hill Science, Engineering & Mathematics

Data Science for Effective Healthcare Systems has a prime focus on the importance of data science in the healthcare domain. Various applications of data science in the health care domain have been studied to find possible solutions. In this period of COVID-19 pandemic data science and allied areas plays a vital role to deal with various aspect of health care. Image processing, detection & prevention from COVID-19 virus, drug discovery,

early prediction, and prevention of diseases are some thrust areas where data science has proven to be indispensable. Key Features: The book offers comprehensive coverage of the most essential topics, including: Big Data Analytics, Applications & Challenges in Healthcare Descriptive, Predictive and Prescriptive Analytics in Healthcare Artificial Intelligence, Machine Learning, Deep Learning and IoT in Healthcare Data Science in Covid-19, Diabetes, Coronary Heart Diseases, Breast Cancer, Brain Tumor The aim of this book is also to provide the future scope of these technologies in the health care domain. Last but not the least, this book will surely benefit research scholar, persons associated with healthcare, faculty, research organizations, and students to get insights into these emerging technologies in the healthcare domain.

Artificial Intelligence with Python "O'Reilly Media, Inc."

Despite the increasing population (the Food and Agriculture Organization of the United Nations estimates 70% more food will be needed in 2050 than was produced in 2006), issues related to food production have yet to be completely addressed. In recent years, Internet of Things technology has begun to be used to address different industrial and technical challenges to meet this growing need. These Agro-IoT tools boost productivity and minimize the pitfalls of traditional farming, which is the backbone of the world's economy. Aided by the IoT, continuous monitoring of fields provides useful and critical information to farmers, ushering in a new era in farming. The IoT can be used as a tool to combat climate change through greenhouse automation; monitor and manage water, soil and crops; increase productivity; control insecticides/pesticides; detect plant diseases; increase the rate of crop sales; cattle monitoring etc. Agricultural Informatics: Automation Using the IoT and Machine Learning focuses on all these topics, including a few case studies, and they give a clear indication as to why these techniques should now be widely adopted by the agriculture and farming industries.

Proceedings of International Conference on Computational Intelligence BPB Publications

There is presently a drastic growth in multimedia data. During the Covid-19 pandemic, we observed that images helped doctors immensely in the rapid detection of Covid-19 infection in patients. There are many critical applications in which images play a vital role. These applications use raw image data to extract some useful information about the world around us. The quick extraction of valuable information from raw images is one challenge that academicians and professionals face in the present day. This is where image processing comes into action. Image processing's primary purpose is to get an enhanced image or extract some useful information from raw image data. Therefore, there is a major need for some technique or system that addresses this challenge. Intelligent Systems have emerged as a solution to address quick image information extraction. In simple words, an Intelligent System can be defined as a mathematical model that adapts itself to deal with a problem's dynamicity. These systems learn how to act so an image can reach an objective. An Intelligent System helps accomplish various image-processing functions like enhancement, segmentation, reconstruction, object detection, and morphing. The advent of Intelligent Systems in the image-processing field has leveraged many critical applications for humankind. These critical applications include factory automation, biomedical imaging analysis, decision econometrics, as well as related challenges.

Supply Chain 5.0: The Next Generation Of Business Success Through Customer Centricity, Sustainability & Human Rights And Digitalization Springer Nature

This book constitutes the refereed proceedings of the 30th

Australasian Database Conference, ADC 2019, held in Sydney, NSW, Australia, in January/February 2019. The 9 full papers presented together with one demo paper were carefully reviewed and selected from 19 submissions. The Australasian Database Conference is an annual international forum for sharing the latest research progresses and novel applications of database systems, data management, data mining and data analytics for researchers and practitioners in these areas from Australia, New Zealand and in the world

Handbook of Computer Science & IT Springer Nature

Knowledge Engineering (KE) is a field within artificial intelligence that develops knowledgebased systems. KE is the process of imitating how a human expert in a specific domain would act and take decisions. It contains large amounts of knowledge, like metadata and information about a data object that describes characteristics such as content, quality, and format, structure and processes. Such systems are computer programs that are the basis of how a decision is made or a conclusion is reached. It is having all the rules and reasoning mechanisms to provide solutions to real-world problems. This book presents an extensive collection of the recent findings and innovative research in the information system and KE domain. Highlighting the challenges and difficulties in implementing these approaches, this book is a critical reference source for academicians, professionals, engineers, technology designers, analysts, undergraduate and postgraduate students in computing science and related disciplines such as Information systems, Knowledge Engineering, Intelligent Systems, Artificial Intelligence, Cognitive Neuro - science, and Robotics. In addition, anyone who is interested or involved in sophisticated information systems and knowledge engineering developments will find this book a valuable source of ideas and guidance.

Knowledge Engineering for Modern Information Systems BPB Publications

Sağlık yönetimi, sağlık hizmeti sunan kuruluşlara ve bu kuruluşlar içindeki farklı birimlere liderlik, yönetim ve yönlendirme sağlayan bir alandır. Sağlık yöneticisi ise, sağlık üzerinde doğrudan ve dolaylı etkisi olan faktörlerle ilişkili konularda çalışan bireyler olarak tanımlanmaktadır. Yöneticilerin çalışma alanlarına bakıldığında, temel işlevleri planlama, organize etme, personel süreçlerini yürütme, kontrol etme, yönlendirme, risk değerlendirme ve karar verme olarak sıralanabilir. Kaynakların kısıtlılığı, bireylerin ihtiyaçlarının sınırsız olması, teknolojik gelişmeler ve beklenmedik doğal afetler gibi birçok husus nedeniyle sağlık yönetiminin sürekli gelişmesi ve iyileşmesi gerekmektedir. Özellikle sağlık yöneticilerinin ya da sağlık yönetici adaylarının gelişime ayak uydurması ve güncel konular hakkında yeterli bilgiye sahip olması, paydaşları memnun etmesi ve kaynakların verimli kullanılmasının sağlanması açısından oldukça önemli bir rol oynamaktadır. Kısacası, günümüzde sağlık yöneticilerinin ya da adaylarının başarılı olması için değişime adapte olmaları kaçınılmazdır. Bu kitabın içeriğinin oluşturulmasında temel olarak dikkate alınan soru "Sağlık yöneticisi ya da sağlık yöneticisi adayı hangi güncel konuları bilmelidir?" olmuştur. Bu noktada ulusal ve uluslararası literatür detaylı olarak taranmış ve son yıllarda sağlık yönetimi alanında üzerinde durulan konular dikkate alınmıştır. Yaptığımız taramalar sonucunda güncel olarak sağlık yönetimi alanında bulunan bireylerin bilmesi gerektiğini düşündüğümüz 16 kritik alan kitabımızın kapsamını oluşturmuştur.

Image Processing and Intelligent Computing Systems Prof.Dr.

Zeynel Abidin öztürk

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Computer Science & Engineering/Information Technology Capsule Quick Revision CRC Press

This text presents the JDBC standard, Java's database connectivity environment, and provides information for using Java with JDBC for accessing databases. The manual is designed for users who are learning database programming for the Internet or company In

Proceedings 2002 VLDB Conference Walter de Gruyter GmbH & Co KG

Understanding and implementing the database management systems concepts in SQL and PL/SQL _ KEY FEATURES _ Practice SQL concepts by writing queries and perform your own data visualization and analysis. _ Gain insights on Entity Relationship Model and how to implement in your business environment. _ Series of question banks and case-studies to develop strong hold on RDBMS concepts. _ DESCRIPTION _ Relational Database Management Systems In-Depth brings the fundamental concepts of database management systems to you in more elaborated learning with conceptual clarity of RDBMS. _ This book brings an extensive coverage of theoretical concepts on types of databases, concepts of relational database management systems, normalization and many more. You will explore exemplification of Entity Relational Model concepts that would teach the readers to design accurate business systems. Backed with a series of examples, you can practice the fundamental concepts of RDBMS and SQL queries including Oracle's SQL queries, MySQL and SQL Server. In addition to the illustration of concepts on SQL, there is an implementation of crucial business rules using PL/SQL based stored procedures and database triggers. Finally, by the end of this book there is a mention of the useful data oriented technologies like Big Data, Data Lake etc and the crucial role played by such techniques in the current data driven decisions. Throughout the book, you will come across key learnings and key terms that will help you to understand and revise the concepts learned. Along with this, you will also come across questions and case studies by the end of every chapter to prepare for job interviews and certifications. WHAT YOU WILL LEARN _ Depiction of Entity Relationship Model

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with various business case studies. _ Illustration of the normalization concept to make the database stronger and consistent. _ Designing the successful client-server applications using PL/SQL concepts. _ Learning the concepts of OODBS and Database Design with Normalization and Relationships. _ Knowing various techniques regarding Big Data technologies like Hadoop, MapReduce and MongoDB. _ WHO THIS BOOK IS FOR _ This book is meant for academicians, students, developers and administrators including beginners and readers experienced in some other programming languages and database systems. _ TABLE OF CONTENTS 1. Database Systems Architecture 2. Database Management System Models 3. Relational query languages 4. Relational Database Design 5. Query Processing and Optimization 6. Transaction Processing 7. Implementation Techniques 8. SQL Concepts 9. PL/SQL Concepts 10. Collections in PL/SQL 11. What Next? _

Trust-Based Communication Systems for Internet of Things Applications BPB Publications

New edition of the bestselling guide to artificial intelligence with Python, updated to Python 3.x, with seven new chapters that cover RNNs, AI and Big Data, fundamental use cases, chatbots, and more. Key Features Completely updated and revised to Python 3.x New chapters for AI on the cloud, recurrent neural networks, deep learning models, and feature selection and engineering Learn more about deep learning algorithms, machine learning data pipelines, and chatbots Book Description Artificial Intelligence with Python, Second Edition is an updated and expanded version of the bestselling guide to artificial intelligence using the latest version of Python 3.x. Not only does it provide you an introduction to artificial intelligence, this new edition goes further by giving you the tools you need to explore the amazing world of intelligent apps and create your own applications. This edition also includes seven new chapters on more advanced concepts of Artificial Intelligence, including fundamental use cases of AI; machine learning data pipelines; feature selection and feature engineering; AI on the cloud; the basics of chatbots; RNNs and DL models; and AI and Big Data. Finally, this new edition explores various real-world scenarios and teaches you how to apply relevant AI algorithms to a wide swath of problems, starting with the most basic AI concepts and progressively building from there to solve more difficult challenges so that by the end, you will have gained a solid understanding of, and when best to use, these many artificial intelligence techniques. What you will learn Understand what artificial intelligence, machine learning, and data science are Explore the most common artificial intelligence use cases Learn how to build a machine learning pipeline Assimilate the basics of feature selection and feature engineering Identify the differences between supervised and unsupervised learning Discover the most recent advances and tools offered for AI development in the cloud Develop automatic speech recognition systems and chatbots Apply AI algorithms to time series data Who this book is for The intended audience for this book is Python developers who want to build real-world Artificial Intelligence applications. Basic Python programming experience and awareness of machine learning concepts and techniques is mandatory.