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Description:

Data Science: A First Introduction focuses on using the R programming language in Jupyter notebooks to perform data manipulation and cleaning, create effective visualizations, and extract

Data Science: A First Introduction

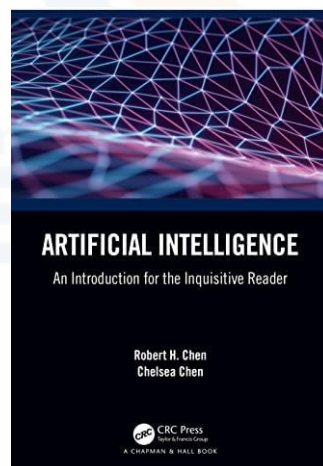
Author : Tiffany Timbers
No. Class : 519.502 85 TIM d
Location : Jakarta, Tangerang, dan Bekasi

insights from data using classification, regression, clustering, and inference.

The text emphasizes workflows that are clear, reproducible, and shareable, and includes coverage of the basics of version control. All source code is available online, demonstrating the use of good reproducible project workflows.

Based on educational research and active learning principles, the book uses a modern approach to R and includes accompanying autograded Jupyter worksheets for interactive, self-directed learning. The book will leave readers well-prepared for data science projects.

The book is designed for learners from all disciplines with minimal prior knowledge of mathematics and programming. The authors have honed the material through years of experience teaching thousands of undergraduates in the University of British Columbia's DSCI100: Introduction to Data Science course.



Description:

Artificial Intelligence: An Introduction for the Inquisitive Reader guides readers through the history and development of AI, from its early mathematical beginnings through to the exciting possibilities of its potential future applications. To make this journey as accessible as

Artificial Intelligence: An Introduction for The Inquisitive Reader

Author : Robert H. Chen
No. Class : 006.3 CHE a
Location : Jakarta, Tangerang, dan Bekasi

possible, the authors build their narrative around accounts of some of the more popular and well-known demonstrations of artificial intelligence including Deep Blue, AlphaGo and even Texas Holdem, followed by their historical background, so that AI can be seen as a natural development of mathematics and computer science. As the book moves forward, more technical descriptions are presented at a pace that should be suitable for all levels of readers, gradually building a broad and reasonably deep understanding and appreciation for the basic mathematics, physics, and computer science that is rapidly developing artificial intelligence as it is today.

Features:

- Only mathematical prerequisite is an elementary knowledge of calculus
- Accessible to anyone with an interest in AI and its mathematics and computer science
- Suitable as a supplementary reading for a course in AI or the History of Mathematics and Computer Science in regard to artificial intelligence.

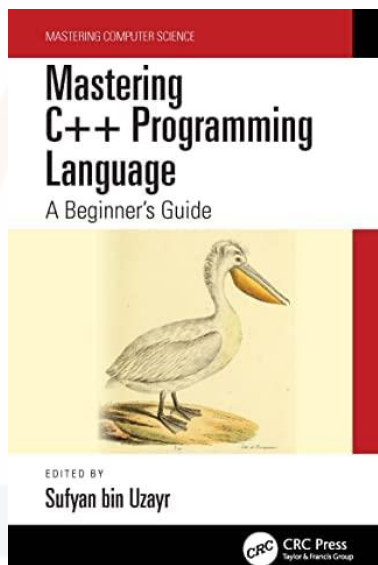


Cybersecurity: A practical Engineering Approach

Author : Henrique M.D. Santos
No. Class : 005.8 SAN c
Location : Jakarta, Tangerang, dan Bekasi

Description:

Cybersecurity: A Practical Engineering Approach introduces the implementation of a secure cyber architecture, beginning with the identification of security risks. It then builds solutions to mitigate risks by considering the technological justification of the solutions as well as their efficiency. The process follows an engineering process model. Each module builds on a subset of the risks, discussing the knowledge necessary to approach a solution, followed by the security control architecture design and the implementation. The modular approach allows students to focus on more manageable problems, making the learning process simpler and more attractive.



Mastering C++ Programming Language: A Beginner's guide

Author : Sufyan bin Uzayr
No. Class : 005.262 UZA m
Location : Jakarta, Tangerang, dan Bekasi

languages, is flexible and has evolved quickly to meet the demands of programmers and software. It is now one of the most excellent options for rapid applications, with alternatives such as Rust or Perl severely missing ecosystem support for many use cases.

More important, C++ is a programming language with varied uses. Knowing how to write code in C++ can help you understand how software and hardware interact. This is valuable information to have regardless of which path you take in technology. If you want to work in technology, C++ is an excellent language to learn. In this book, you will discover a brief introduction to C++, memory management, C++ functions, preprocessing and compilation, coroutines, and lazy generators.

Mastering C++ Programming Language: A Beginners Guide sets the standard for C++ learning while solving the problems given in a typical C++ scenario. This book explores the design, portability, and efficiency of C++ applications in the real world. Mastering C++ Programming Language offers an outstanding

supply of tested, usable, and documented C++ code by providing complete, functional solutions to each problem and paying close attention to efficiency and portability.

As a beginners guide, Mastering C++ Programming Language contains several examples and substantial code to aid all programmers who wish to expand their C++ language skills. As a result, Mastering C++ Programming Language offers at-length reading for students and professionals interested in the most recent advances in C++. It includes models that are particularly useful for individuals studying the language on their own. Plus, it also discusses the recent updates to the C++ language by comparing different versions and the various standards that are currently in use.

Mastering C++ Programming Language is an ideal beginners companion for learning the fantastic programming language that is C++. If you are looking to quickly and efficiently learn C++ coding, this is the ultimate book for you!

Description:

C++ was created as a superset of C, retaining C efficiency and notational ease but adding type checking, data abstraction, operator overloading, and object-oriented programming capabilities. C++ is still a popular programming language because of its versatility. Unlike most other programming languages, C++ has been able to adapt as its demands have changed, allowing it to remain relevant, contemporary, and essential. C++, unlike other



Blockchain Technology: Exploring Opportunities, Challenges, and Applications

Author : Sonali Vyas, Vinod Kumar Shukla, Shaurya Gupta
No. Class : 005.74 VYA b
Location : Jakarta, Tangerang, dan Bekasi

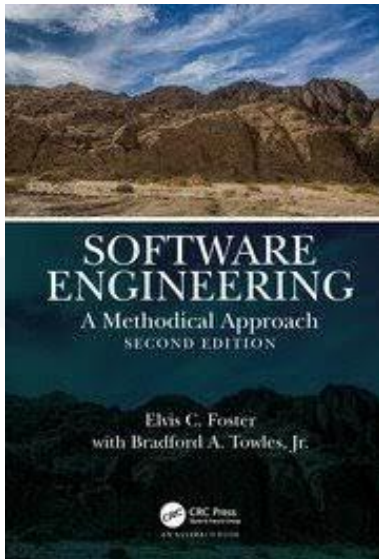
Description:

This book is for anyone who wants to gain an understanding of Blockchain technology and its potential. The book is research-oriented and covers different verticals of Blockchain technology. It discusses the characteristics and features of Blockchain, includes techniques, challenges, and future trends, along with case studies for deeper understanding.

from scratch. The algorithms, concepts, and application areas are discussed according to current market trends and industry needs. It presents different application areas of industry and academia and discusses the characteristics and features of this technology. It also explores the challenges and future trends and provides an understanding of new opportunities.

Blockchain Technology: Exploring Opportunities, Challenges, and Applications covers the core concepts related to Blockchain technology starting

This book is for anyone at the beginner to intermediate level that wants to learn about the core concepts related to Blockchain technology.



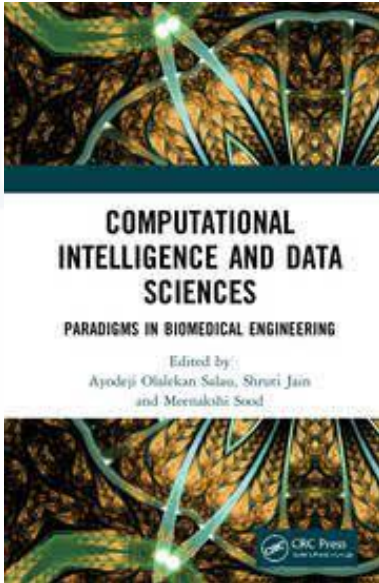
Software Engineering: A Methodical Approach

Author : Elvis C. Foster
No. Class : 005.1 FOS s
Location : Jakarta, Tangerang, dan Bekasi

Description:

Software Engineering: A Methodical Approach (Second Edition) provides a comprehensive, but concise introduction to software engineering. It adopts a methodical approach to solving software engineering problems, proven over several years of teaching, with outstanding results. The book covers concepts, principles, design, construction, implementation, and management issues of software engineering. Each chapter is organized systematically into brief, reader-friendly sections, with itemization of the important points to be remembered. Diagrams and illustrations also sum up the salient points to enhance learning. Additionally, the book includes the authors original methodologies that add clarity and creativity to the software engineering experience.

New in the Second Edition are chapters on software engineering projects, management support systems, software engineering frameworks and patterns as a significant building block for the design and construction of contemporary software systems, and emerging software engineering frontiers. The text starts with an introduction of software engineering and the role of the software engineer. The following chapters examine in-depth software analysis, design, development, implementation, and management. Covering object-oriented methodologies and the principles of object-oriented information engineering, the book reinforces an object-oriented approach to the early phases of the software development life cycle. It covers various programming techniques and emphasizes object classification and object behavior.



**Computational Intelligence and Data Sciences:
Paradigms in Biomedical Engineering**

Author : Ayodeji Olalekan Salau, Shruti Jain, Meenakshi Sood
No. Class : 610.285 SAL c
Location : Jakarta, Tangerang, dan Bekasi

Description:

This book presents futuristic trends in computational intelligence including algorithms as applicable to different application domains in health informatics covering biomedical, bioinformatics, and biological sciences. Latest evolutionary approaches to solve optimization problems under biomedical engineering field are discussed. It provides conceptual framework with a focus on application of computational intelligence techniques in the domain of biomedical engineering and health informatics including real-time issues.



Python packages: the python series

Author : Tomas Beuzen, Tiffany Timbers
No. Class : 005.262 BEU p
Location : Jakarta, Tangerang, dan Bekasi

Description:

Python Packages introduces Python packaging at an introductory and practical level that is suitable for those with no previous packaging experience. Despite this, the text builds up to advanced topics such as automated testing, creating documentation, versioning and updating a package, and implementing continuous integration and deployment. Covering the entire Python packaging life cycle, this essential guide takes readers from package creation all the way to effective maintenance and updating.

Python Packages focuses on the use of current and best-practice packaging tools and services like poetry, cookiecutter, pytest, sphinx, GitHub, and GitHub Actions.



Data Science with Julia

Author : Hui Jiang
No. Class : 006.31 JIA m
Location : Jakarta, Tangerang, dan Bekasi

Description:

Julia, an open-source programming language, was created to be as easy to use as languages such as R and Python while also as fast as C and Fortran. An accessible, intuitive, and highly efficient base language with speed that exceeds R and Python, makes Julia a formidable language for data science. Using well known data science methods that will motivate the reader, Data Science with Julia will get readers up to speed on key features of the Julia language and illustrate its facilities for data science and machine learning work.





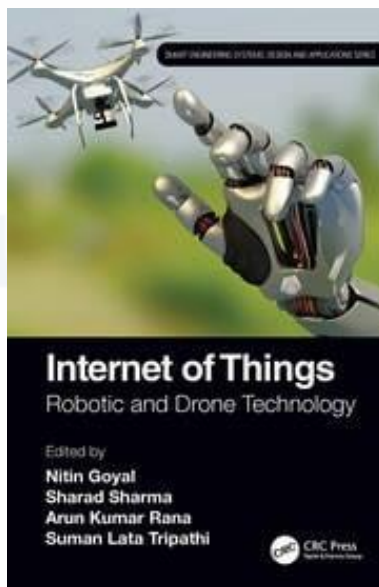
Big Data Applications in Industry 4.0

Author : P. Kaliraj, T. Devi
No. Class : 384.302 85 KAL b
Location : Jakarta, Tangerang, dan Bekasi

Description:

Industry 4.0 is the latest technological innovation in manufacturing with the goal to increase productivity in a flexible and efficient manner. Changing the way in which manufacturers operate, this revolutionary transformation is powered by various technology advances including Big Data analytics, Internet of Things (IoT), Artificial Intelligence (AI), and cloud computing. Big Data analytics has been identified as one of the significant components of Industry 4.0, as it provides valuable insights for smart factory management. Big Data and Industry 4.0 have the potential to reduce resource consumption and optimize processes, thereby playing a key role in achieving sustainable development.

Big Data Applications in Industry 4.0 covers the recent advancements that have emerged in the field of Big Data and its applications. The book introduces the concepts and advanced tools and technologies for representing and processing Big Data. It also covers applications of Big Data in such domains as financial services, education, healthcare, biomedical research, logistics, and warehouse management. Researchers, students, scientists, engineers, and statisticians can turn to this book to learn about concepts, technologies, and applications that solve real-world problems..



Internet of things: robotic and drone technology

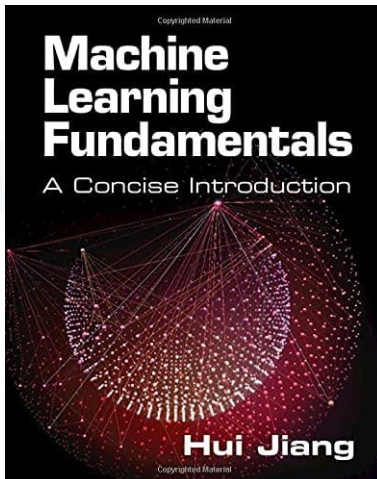
Author : Walter R. Paczkowski
No. Class : 001.422 5 PAC d
Location : Jakarta, Tangerang, dan Bekasi

Description:

This reference text discusses intelligent robotic and drone technology with embedded Internet of Things (IoT) for smart applications.

The text discusses future directions of optimization methods with various engineering and science fundamentals used in robotics and drone-based applications. Its emphasis is on covering deep learning and similar models of neural network-based learning techniques employed in solving optimization problems of different engineering and science applications. It covers important topics including sensors and actuators in the internet of things (IoT), internet-of-robotics-things (IoRT), IoT in agriculture and food processing, routing challenges in flying Ad-hoc networks, and smart cities.

The book will serve as a useful text for graduate students and professionals in the fields of electrical engineering, electronics engineering, computer science, and mechanical engineering.



Machine Learning Fundamentals: A Concise Introduction

Author : Hui Jiang
No. Class : 006.31 JIA m
Location : Jakarta, Tangerang, dan Bekasi

Description:

This lucid, accessible introduction to supervised machine learning presents core concepts in a focused and logical way that is easy for beginners to follow. The author assumes basic calculus, linear algebra, probability and statistics but no prior exposure to machine learning. Coverage includes widely used traditional methods such as SVMs, boosted trees, HMMs, and LDAs, plus popular deep learning methods such as convolution neural nets, attention, transformers, and GANs. Organized in a coherent presentation framework that emphasizes the big picture, the text introduces each method clearly and concisely from scratch based on the fundamentals. All methods and algorithms are described by a clean and consistent style, with a minimum of unnecessary detail. Numerous case studies and concrete examples demonstrate how the methods can be applied in a variety of contexts.



Big Data

Author : Benoit Leclerc, Jesse Gale
No. Class : 364.028 557 LEC b
Location : Jakarta, Tangerang, dan Bekasi

Description:

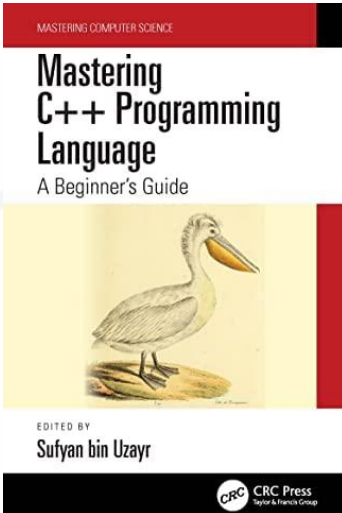
The internet has launched the world into an era into which enormous amounts of data are generated every day through technologies with both positive and negative consequences. This often refers to big data. This book explores big data in organisations operating in the criminology and criminal justice fields.

Big data entails a major disruption in the ways we think about and do things, which certainly applies to most organisations including those operating in the criminology and criminal justice fields. Big data is currently disrupting processes in most organisations-how different organisations collaborate with one another, how organisations develop products or services, how organisations can identify, recruit, and evaluate talent, how organisations can make better

decisions based on empirical evidence rather than intuition, and how organisations can quickly implement any transformation plan, to name a few.

All these processes are important to tap into, but two underlying processes are critical to establish a foundation that will permit organisations to flourish and thrive in the era of big data-creating a culture more receptive to big data and implementing a systematic data analytics-driven process within the organisation.

Written in a clear and direct style, this book will appeal to students and scholars in criminology, criminal justice, sociology, and cultural studies but also to government agencies, corporate and non-corporate organisations, or virtually any other institution impacted by big data.

**Description:**

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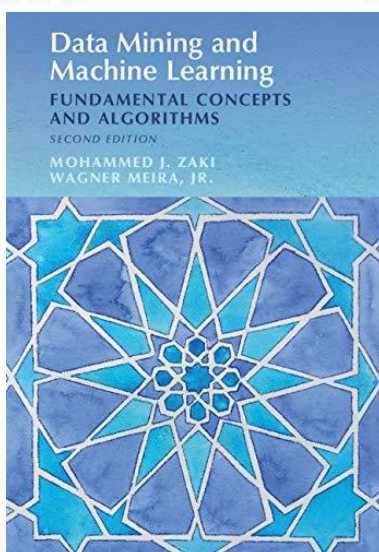
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**Data Mining and Machine Learning: Fundamental Concepts and Algorithms**

Author : Mohammed J. Zaki, Wagner Meira Jr.
No. Class : 006.312 ZAK d
Location : Jakarta, Tangerang, dan Bekasi

Description:

The fundamental algorithms in data mining and machine learning form the basis of data science, utilizing automated methods to analyze patterns and models for all kinds of data in applications ranging from scientific discovery to business analytics. This textbook for senior undergraduate and graduate courses provides a comprehensive, in-depth overview of data mining, machine learning and statistics, offering solid guidance for students, researchers, and practitioners. The book lays the foundations of data analysis, pattern mining, clustering, classification and regression, with a focus on the algorithms and the underlying algebraic, geometric, and probabilistic concepts. New to this second edition is an entire part devoted to regression methods, including neural networks and deep learning.