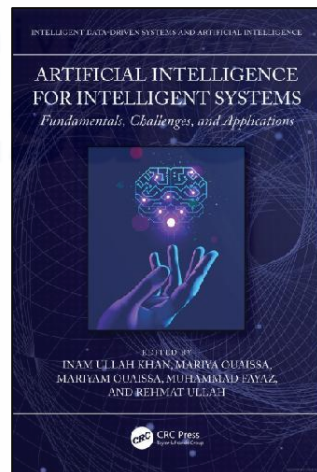




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Artificial Intelligence for Intelligent Systems: Fundamentals, Challenges, and Applications

Author : Inam Ullah Khan, Mariya Ouaisa, Mariyam Ouaisa, Muhammad Fayaz, Rehmat Ullah

No. Class : 006.3 KHA a

Link Pustaka : <https://doi.org/10.1201/9781003496410>

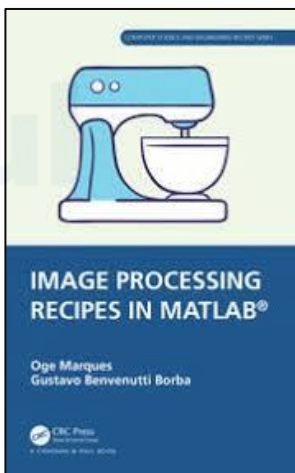
Description:

The aim of this book is to highlight the most promising lines of research, using new enabling technologies and methods based on AI/ML techniques to solve issues and challenges related to intelligent and computing systems. Intelligent computing easily collects data using smart technological applications like IoT-based wireless networks, digital healthcare, transportation, blockchain, 5.0 industry and deep learning for better decision making. AI enabled networks will be integrated in smart cities concept for interconnectivity. Wireless networks will play an important role. The digital era of computational intelligence will change the dynamics and lifestyle of human beings. Future networks will be introduced with the help of AI technology to implement cognition in real-world applications. Cyber threats are dangerous to encode information from network. Therefore, AI-Intrusion detection systems need to be designed for identification of unwanted data traffic.

This book:

Provides a better understanding of artificial intelligence-based applications for future smart cities
Presents a detailed understanding of artificial intelligence tools for intelligent technologies
Showcases intelligent computing technologies in obtaining optimal solutions using artificial intelligence
Discusses energy-efficient routing protocols using artificial intelligence for Flying ad-hoc networks (FANETs)
Covers machine learning-based Intrusion detection system (IDS) for smart grid

It is primarily written for senior undergraduate, graduate students, and academic researchers in the fields of electrical engineering, electronics and communication engineering, and computer engineering.



[Image Processing Recipes in MATLAB, 1st ed](#)

Author : Oge Marques dan Gustavo Benvenuto Borba
No. Class : 005.262 MAR i
Link Pustaka : <https://doi.org/10.1201/9781003170198>

Description:

Leveraging the latest developments in MATLAB and its image processing toolbox, this cookbook is a collection of 30 practical recipes for image processing, ranging from foundational techniques to recently published algorithms. Presented in a clear and meaningful sequence, these recipes are prepared with the reader in mind, allowing one to focus on particular topics or read as a whole from cover to cover.

Key Features:

A practical, user-friendly guide that equips researchers and practitioners with the tools to implement efficient image processing workflows in MATLAB. Each recipe is presented through clear, step-by-step instructions and rich visual examples. Each recipe contains its own source code, explanations, and figures, making the book an excellent standalone resource for quick reference. Strategically structured to aid sequential learning, yet with self-contained chapters for those seeking solutions to specific image processing challenges.

The book serves as a concise and readable practical reference to deploy image processing pipelines in MATLAB quickly and efficiently. With its accessible and practical approach, the book is a valuable guide for those who navigate this evolving area, including researchers, students, developers, and practitioners in the fields of image processing, computer vision, and image analysis.

[Data Mining with Python: Theory, Application, and Case Studies, 1st ed](#)

Author : Di Wu
No. Class : 005.7 WU d
Link Pustaka : <https://doi.org/10.1201/9781003462781>

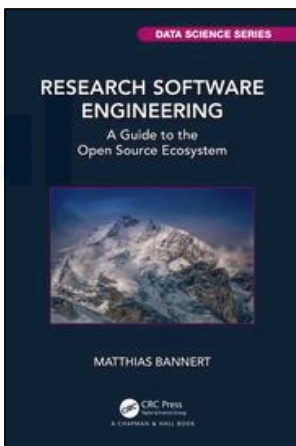
Description:

Data is everywhere and it's growing at an unprecedented rate. But making sense of all that data is a challenge. Data Mining is the process of discovering patterns and knowledge from large data sets, and Data Mining with Python focuses on the hands-on approach to learning Data Mining. It showcases how to use Python Packages to fulfill the Data Mining pipeline, which is to collect, integrate, manipulate, clean, process, organize, and analyze data for knowledge.

The contents are organized based on the Data Mining pipeline, so readers can naturally progress step by step through the process. Topics, methods, and tools are explained in three aspects: "What it is" as a theoretical background, "why we need it" as an application orientation, and "how we do it" as a case study.

This book is designed to give students, data scientists, and business analysts an understanding of Data Mining concepts in an applicable way. Through interactive tutorials that can be run, modified, and used for a more comprehensive learning experience, this book will help its readers to gain practical skills to implement Data Mining techniques in their work.





[Research Software Engineering: A Guide to the Open Source Ecosystem Studies, 1st ed](#)

Author : Matthias Bannert
No. Class : 005.1 BAN r
Link Pustaka : <https://doi.org/10.1201/9781003286899>

Description:

Research Software Engineering: A Guide to the Open Source Ecosystem strives to give a big-picture overview and an understanding of the opportunities of programming as an approach to analytics and statistics. The book argues that a solid "programming" skill level is not only well within reach for many but also worth pursuing for researchers and business analysts. The ability to write a program leverages field-specific expertise and fosters interdisciplinary collaboration as source code continues to become an important communication channel. Given the pace of the development in data science, many senior researchers and mentors, alongside non-computer science curricula lack a basic software engineering component. This book fills the gap by providing a dedicated programming-with-data resource to both academic scholars and practitioners.

Key Features:

- overview: breakdown of complex data science software stacks into core components
- applied: source code of figures, tables and examples available and reproducible solely with license cost-free, open source software
- reader guidance: different entry points and rich references to deepen the understanding of selected aspects



[Spreadsheet Problem Solving and Programming for Engineers and Scientists, 1st ed](#)

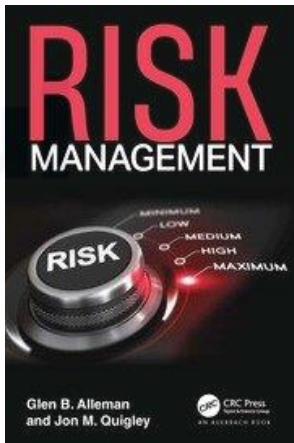
Author : David E. Clough dan Steven C. Chapra
No. Class : 005.54 CLO s
Link Pustaka : <https://doi.org/10.1201/9781003361053>

Description:

Spreadsheet Problem Solving and Programming for Engineers and Scientists provides a comprehensive resource essential to a full understanding of modern spreadsheet skills needed for engineering and scientific computations.

Beginning with the basics of spreadsheets and programming, this book builds on the authors decades of experience teaching spreadsheets and programming to both university students and professional engineers and scientists. Following on from this, it covers engineering economics, key numerical methods, and applied statistics. Finally, this book details the Visual Basic for Applications (VBA) programming system that accompanies Excel.

With each chapter including examples and a set of exercises, this book is an ideal companion for all engineering courses and also for self-study. Based on the latest version of Excel (Microsoft Excel for Microsoft 365), it is also compatible with earlier versions of Excel dating back to Version 2013. Including numerous case studies, this book will be of interest to students and professionals working in all areas of engineering and science.



[Risk Management, 1st ed](#)

Author : Glen B. Alleman dan Jon M. Quigley
No. Class : 658.404 ALL r
Link Pustaka : <https://doi.org/10.1201/9781003425465>

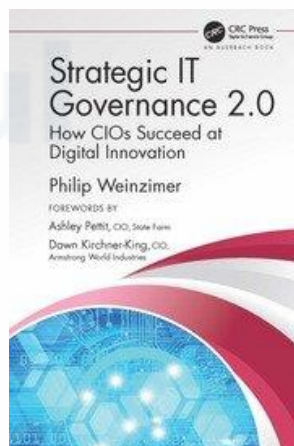
Description:

Project success is an elusive goal in every business or technical domain. Project failure usually results from unhandled risks to the technical, cost, and schedule aspects of the project. There are four primary root causes of project failure.

Unrealistic performance expectation, with missing Measures of Effectiveness Unrealistic cost and schedule estimates based on inadequate risk adjusted growth models Inadequate assessment of risk and unmitigated exposure to these risks without proper handling strategies Unanticipated technical issues with alternative plans and solutions to maintain the effectiveness of the project processes and its deliverables.

Risk Management provides a comprehensive overview of the people, principles, processes, and practices as the fundamental base upon which an effective risk management system resides. However, this does not guarantee effective risk management and successful projects and businesses. The first half of the book describes risk management processes, as well as a delineation between risk and hazards and how these are connected. The second half of the book provides industry examples of the approach to risk management in specific context and with specific approaches and artifacts where applicable.

The book focuses on risks created by uncertainty, their identification, and the corrective and preventive actions needed to address these risks to increase the probability of project success. The books goal is to provide a context-driven framework, developing a foundation for a rational approach to risk management that makes adaptation to circumstances as easy as possible.

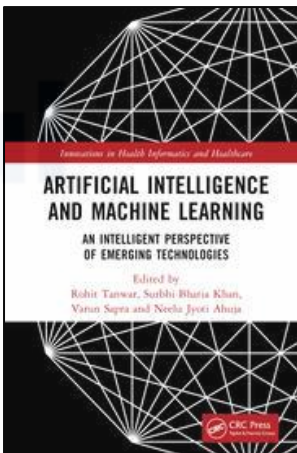


[Strategic IT Governance 2.0: How CIOs Succeed at Digital Innovation, 1st ed](#)

Author : Philip Weinzimer
No. Class : 005.8 WEI s
Link Pustaka : <https://doi.org/10.1201/9781003317531>

Description:

Today's business environment is more complicated, creating additional challenges for the successful execution of strategic enterprise projects. Unless an organization revisits its governance model, strategic projects are at risk of negatively impacting business success. So, how do companies succeed in overcoming these obstacles to improve project success? Strategic IT Governance 2.0: How CIOs Succeed at Digital Innovation explains how IT executives can take the lead and successfully drive digital transformation initiatives and associated projects. The book presents the Strategic IT Governance 2.0 model that focuses on project alignment, process reinvention, and leadership excellence. It is filled with case studies of the models implementation, giving practical insight into how organizations have successfully executed digital transformation.



[Artificial Intelligence and Machine Learning: An Intelligent Perspective of Emerging Technologies](#)

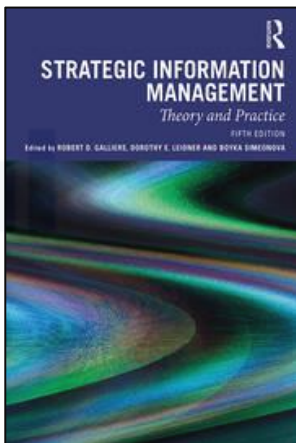
Author : Rohit Tanwar, Surbhi Bhatia, Varun Sapra dan Neelu Jyoti Ahuja
No. Class : 006.3 TAN a
Link Pustaka : <https://doi.org/10.1201/9781003388319>

Description:

This book focuses on artificial intelligence (AI) and machine learning (ML) technologies and how they are progressively being incorporated into a wide range of products, including consumer gadgets, smart personal assistants, cutting-edge medical diagnostic systems, and quantum computing systems. This concise reference book offers a broad overview of the most important trends and discusses how these trends and technologies are being created and employed in the applications in which they are being used.

Artificial Intelligence and Machine Learning: An Intelligent Perspective of Emerging Technologies offers a broad package involving the incubation of AI and ML with various emerging technologies such as Internet of Things (IoT), healthcare, smart cities, robotics, and more. The book discusses various data collection and data transformation techniques and also maps the legal and ethical issues of data-driven e-healthcare systems while covering possible ways to resolve them. The book explores different techniques on how AI can be used to create better virtual reality experiences and deals with the techniques and possible ways to merge the power of AI and IoT to create smart home appliances.

With contributions from experts in the field, this reference book is useful to healthcare professionals, researchers, and students of industrial engineering, systems engineering, biomedical, computer science, electronics, and communications engineering.



[Strategic Information Management: Theory And Practice, 5th ed](#)

Author : Robert D. Galliers, Dorothy E. Leidner dan Boyka Simeonova
No. Class : 658.403 8 GAL s
Link Pustaka : <https://doi.org/10.4324/9780429286797>

Description:

Today, there are few in senior management positions who can afford to ignore modern information technology, and few individuals who would prefer to be without it. Modern IT is key to organizational performance yet we often assume the benefits will occur without forethought or effort. As managerial tasks become more complex, so the nature of the required information systems changes—from structured, routine support to ad hoc, unstructured, complex enquiries at the highest levels of management. If taken for granted, serious implications can arise for organizations. This fifth edition of Strategic Information Management has been brought fully up to date with recent developments in the management of information systems, including digital transformation strategy, the issues surrounding big data and algorithmic decision-making. The book provides a rich source of material reflecting recent thinking on the key issues facing executives, drawing from a wide range of contemporary articles written by leading experts in North America, Europe, and Australia. Combining theory with practice, each section is fully introduced, includes further reading and questions for further discussion. Designed for MBA, masters level students, and advanced undergraduate students taking courses in information systems management, it also provides a wealth of information and references for researchers.



Computational Intelligence for Information Retrieval, 1st ed

Author : Dharmender Sani, Gopal Chaudhary dan Vedika Gupta
No. Class : 005.36 SAI c
Link Pustaka : <https://doi.org/10.1201/9781003134138>

Description:

This book provides a thorough understanding of the integration of computational intelligence with information retrieval including content-based image retrieval using intelligent techniques, hybrid computational intelligence for pattern recognition, intelligent innovative systems, and protecting and analysing big data on cloud platforms. The book aims to investigate how computational intelligence frameworks are going to improve information retrieval systems. The emerging and promising state-of-the-art of human-computer interaction is the motivation behind this book.

The book covers a wide range of topics, starting from the tools and languages of artificial intelligence to its philosophical implications, and thus provides a plethora of theoretical as well as experimental research, along with surveys and impact studies.

Further, the book aims to showcase the basics of information retrieval and computational intelligence for beginners, as well as their integration, and challenge discussions for existing practitioners, including using hybrid application of augmented reality, computational intelligence techniques for recommendation systems in big data, and a fuzzy-based approach for characterization and identification of sentiments.

Cyber Security And Business Intelligence: Innovations And Machine Learning For Cyber Risk Management, 1st ed

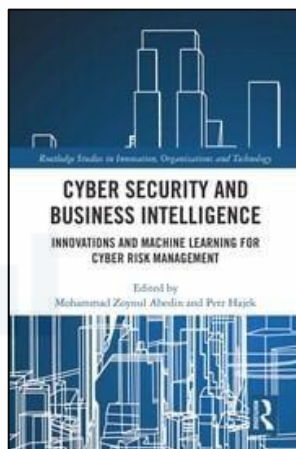
Author : Mohammad Zoynul Abedin
No. Class : 005.8 ABE c
Link Pustaka : <https://doi.org/10.4324/9781003285854>

Description:

To cope with the competitive worldwide marketplace, organizations rely on business intelligence to an increasing extent. Cyber security is an inevitable practice to protect the entire business sector and its customer. This book presents the significance and application of cyber security for safeguarding organizations, individuals personal information, and government.

The book provides both practical and managerial implications of cyber security that also supports business intelligence and discusses the latest innovations in cyber security. It offers a roadmap to master degree students and PhD researchers for cyber security analysis in order to minimize the cyber security risk and protect customers from cyber-attack. The book also introduces the most advanced and novel machine learning techniques including, but not limited to, Support Vector Machine, Neural Networks, Extreme Learning Machine, Ensemble Learning, and Deep Learning Approaches, with a goal to apply those to cyber risk management datasets. It will also leverage real-world financial instances to practise business product modelling and data analysis.

The contents of this book will be useful for a wide audience who are involved in managing network systems, data security, data forecasting, cyber risk modelling, fraudulent credit risk detection, portfolio management, and data regulatory bodies. It will be particularly beneficial to academics as well as practitioners who are looking to protect their IT system, and reduce data breaches and cyber-attack vulnerabilities.



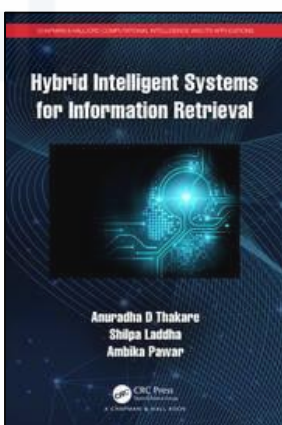


Managing Business Projects: The Essentials, 1st ed

Author : Frank Einhorn
No. Class : 658.404 EIN m
Link Pustaka : <https://doi.org/10.1201/9781003321101>

Description:

Managing Business Projects: The Essentials differs from many other project management textbooks. Foremost, it is about business projects as opposed to construction or engineering projects. Although many techniques, like schedule management, apply to both, they are usually applied differently. As its title conveys, the book explains the essential techniques and perspectives needed for business projects to be successful. The focus is on small and medium sized projects, up to say \$20 million, but often below \$1 million. Some literature favors large and mega-projects, but for every mega-project there are many thousands of smaller projects which are vital to the organization and could involve considerable complexity and risk. Nevertheless, the techniques outlined here also apply to mega-projects and their many subprojects they even apply to some aspects of construction or engineering projects. This book does not aim to cover all project management techniques. In real life there is simply not time for sophisticated should-dos. Rather, it covers the essentials that apply to almost all business projects these are unlikely to change in the future even as technology and methodologies advance. The driving idea, which is stated repeatedly, is to do the essentials and to do them consistently and well. Strong emphasis is placed on things that happen before, around, and after the project itself. So, while the basic disciplines like engaging with stakeholders, managing scope, schedules, costs, risks, issues, changes, and communication, are thoroughly explained, other important aspects are covered. These include: governance of a project and of a portfolio of projects, project selection with its financial and non-financial aspects, effective use of the business case through to benefits realization, procurement, outsourcing and partnership, and also the agile mindset that is valuable beyond Agile projects. Besides project managers and sponsors, this text is intended for people who are working in business or government, at any level, or for MBA students. It offers perspectives that enable them to learn more from their everyday experience. It is not aimed at undergraduate students, although many would benefit from the contents.



Hybrid Intelligent Systems For Information Retrieval

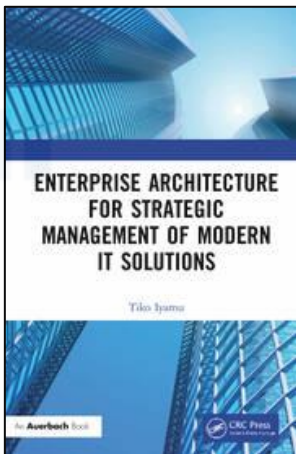
Author : Anuradha D Thakare, Shilpa Laddha dan Ambika Pawar
No. Class : 006.3 THA h
Link Pustaka : <https://doi.org/10.1201/9781003187974>

Description:

Hybrid Intelligent Systems for Information Retrieval covers three areas along with the introduction to Intelligent IR, i.e., Optimal Information Retrieval Using Evolutionary Approaches, Semantic Search for Web Information Retrieval, and Natural Language Processing for Information Retrieval.

- Talks about the design, implementation, and performance issues of the hybrid intelligent information retrieval system in one book
- Gives a clear insight into challenges and issues in designing a hybrid information retrieval system
- Includes case studies on structured and unstructured data for hybrid intelligent information retrieval
- Provides research directions for the design and development of intelligent search engines

This book is aimed primarily at graduates and researchers in the information retrieval domain.



[Enterprise Architecture For Strategic Management of Modern It Solutions, 1st ed](#)

Author : Tiko Iyamu
No. Class : 004.22 IYA e
Link Pustaka : <https://doi.org/10.1201/9781003268420>

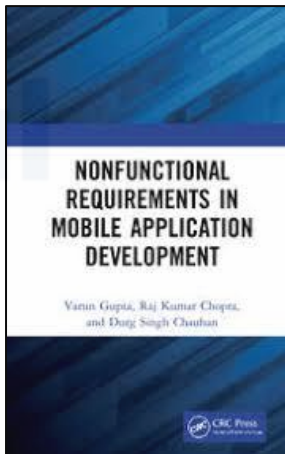
Description:

The popularity of enterprise architecture (EA) has increased in the last two decades, in both business and academic domains. Despite the cumulative interest from all sectors, the implementation and practice of EA have been entangled with numerous challenges and complexities. Consequently, some organisations continue to theorise the concept, which has ramifications on practice and return on investment (ROI). This has led to many studies that have been conducted, to understand the complexities impacting the implementation and practice of EA in organisations. Yet, the trajectory of some convolutions remains mystery in many quarters. This attributes to the struggle to articulate the value of EA in many environments. Hence many organisations find it difficult to apply EA for strategic management of modern information technology (IT) solutions.

Enterprise Architecture for Strategic Management of Modern IT Solutions provides guidance on how to employ EA in deploying and managing IT solutions from pragmatic and implementable strategies perspectives. Until now, implementation and practice of EA have been slow, despite its growing popularity and interest from all sectors. The author employs sociotechnical theories such as actor-network theory (ANT) and structuration theory (ST) as lenses to examine and explain why and how challenges and complexities exist and derail the implementation or practice of EA in organisations. By doing so, this serves to enable practitioners and readers to gain fresh insights on why the challenges exist and how they can be addressed in creating collaborative capabilities for business enhancement, sustainability, and competitiveness.

The book provides detailed insights on how to apply EA for organisational purposes, from three main fronts. First, it explains the implications that lack of understanding of EA have on organisational activities and processes. Second, it examines the challenges and complexities that hinder the implementation and practice of EA in organisations. Third, it proposes models and frameworks on how EA can be applied for strategic management of modern IT solutions in organisations.

Written for postgraduates, researchers, academics, and professionals in the fields of EA, IT, and information systems, this book provides a valuable resource that will enable and enhance implementation and practice of EA including future studies.



[Nonfunctional Requirements In Mobile Application Development, 1st ed](#)

Author : Varun Gupta, Raj Chopra dan Durg Chauhan
No. Class : 005.2 GUP n
Link Pustaka : <https://doi.org/10.1201/9781003160922>

Description:

Nonfunctional Requirements in Mobile Application Development is an empirical study that investigates how nonfunctional requirements as compared with functional requirements are treated by the software engineers during mobile application development.

The book empirically analyzes the contribution of nonfunctional requirements to project parameters such as cost, time, and quality. Such parameters are of prime interest as they determine the survival of organizations in highly dynamic environments. The impact of nonfunctional requirements on project success is analyzed through surveys and case studies, both individually and relative to each other. Sources for data collection include industry, academia, and literature. The book also empirically studies the impact of nonfunctional requirements on the overall business success of both the software development firm and the software procuring firm. Project success is examined to determine if it leads to business success.

The book provides rich empirical evidence to place nonfunctional requirements on par with functional requirements to achieve business success in highly competitive markets. This work enhances the body of knowledge through multiple empirical research methods including surveys, case studies, and experimentation to study software engineers focus on nonfunctional requirements at both project and business levels. The book can guide both computer scientists and business managers in devising theoretical and technical solutions for software release planning to achieve business success.

[Enabling Technologies For Next Generation Wireless Communications, 1st ed](#)

Author : Mohammed Usman, Mohd Wajid dan Mohn Dilshad Ansari
No. Class : 004.65 USM e
Link Pustaka : <https://doi.org/10.1201/9781003003472>

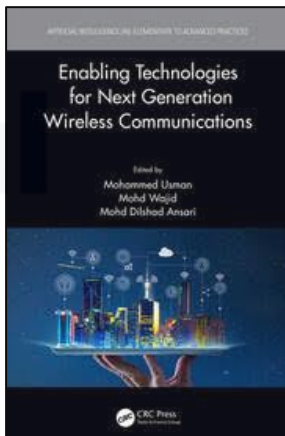
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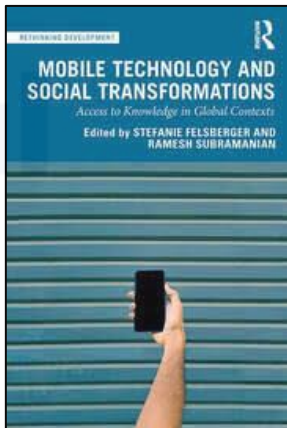
Enabling Technologies for Next Generation Wireless Communications provides up-to-date information on emerging trends in wireless systems, their enabling technologies and their evolving application paradigms.

This book includes the latest trends and developments toward next generation wireless communications. It highlights the requirements of next generation wireless systems, limitations of existing technologies in delivering those requirements and the need to develop radical new technologies. It focuses on bringing together information on various technological developments that are

enablers vital to fulfilling the requirements of future wireless communication systems and their applications. Topics discussed include spectrum issues, network planning, signal processing, transmitter, receiver, antenna technologies, channel coding, security and application of machine learning and deep learning for wireless communication systems. The book also provides information on enabling business models for future wireless systems.

This book is useful as a resource for researchers and practitioners worldwide, including industry practitioners, technologists, policy decision-makers, academicians, and graduate students.





[Mobile Technology And Social Transformations: Access To Knowledge In Global Contexts, 1st ed](#)

Author : Stefanie Felsberger dan Ramesh Subramanian
No. Class : 005.25 FEL m
Link Pustaka : <https://doi.org/10.4324/9781003089575>

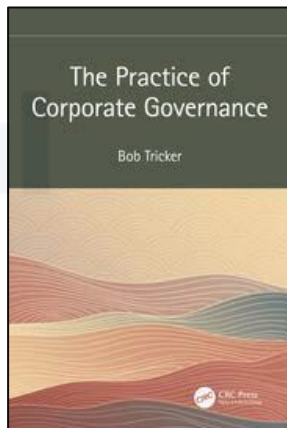
Description:

This book investigates the ways in which the mobile telephone has transformed societies around the world, bringing both opportunities and challenges. At a time when knowledge and truth are increasingly contested, the book asks how mobile technology has changed the ways in which people create, disseminate, and access knowledge.

Worldwide, mobile internet access has surpassed desktop access, and it is estimated that by 2022 there will be an excess of 6 billion mobile phone users in the world. This widespread proliferation raises all sorts of questions around who creates knowledge, how is that knowledge shared and proliferated, and what are the structural political, economic, and legal conditions in which knowledge is accessed. The practices and power dynamics around mobile

technologies are location specific. They look different depending on whether one chooses to highlight the legal, social, political, or economic context. Bringing together scholars, journalists, activists and practitioners from around the world, this book embraces this complexity, providing a multifaceted picture that acknowledges the tensions and contradictions surrounding accessing knowledge through mobile technologies.

With case studies from Hong Kong, South Korea, India, Syria, Egypt, Botswana, Brazil, and the US, this book provides an important account of the changing nature of our access to knowledge, and is key reading for students, researchers, activists and policy makers with an interest in technology and access to knowledge, communication, social transformation, and global development.



[The Practice of Corporate Governance, 1st ed](#)

Author : Bob Tricker
No. Class : 005.8 TRI p
Link Pustaka : <https://doi.org/10.1201/9781003321132>

Description:

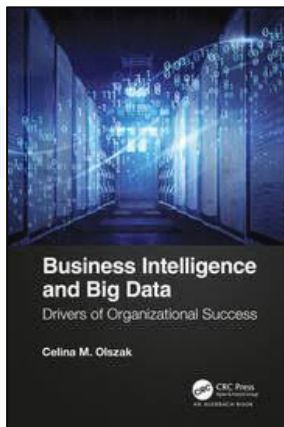
All corporate entities, from the largest multinational conglomerate to the smallest tennis club, need effective governance. Some features of corporate governance are basic, common to all corporate entities: every governing body needs to think strategically and set policies to supervise ongoing management activities to ensure the entity is financially viable and is achieving its objectives.

Every corporate entity has a governing body, whether it is called a board of directors, a committee, a council, or anything else. Many people, when appointed to the governing body of an organisation, have little idea of what to expect and what is expected of them. Even those with board-level experience find that the culture and

leadership style of other governing bodies differ. The aim of this book is to help them understand and improve their contribution to the organisation and governing body they serve. The book is a simple guide to the work of every board member.

Each chapter concludes with a worksheet, which enables readers to apply the ideas in that chapter to their own organisation. On completing the book, readers will have a detailed analysis of the governance of their own organisation.

Effective governance improves performance and ensures long-term success. This book offers a straightforward guide to the fundamental work of governing bodies and the people who serve on them.



Business Intelligence And Big Data: Drivers Of Organizational Success, 1st ed

Author : Celina Olszak
No. Class : 005.7 OLS b
Link Pustaka : <https://doi.org/10.1201/9780429353505>

Description:

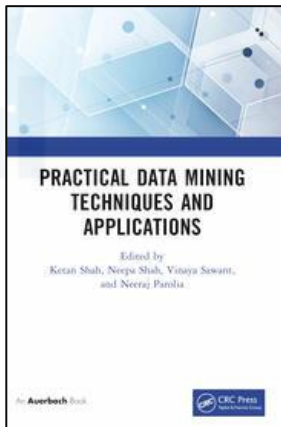
The twenty-first century is a time of intensifying competition and progressive digitization. Individual employees, managers, and entire organizations are under increasing pressure to succeed. The questions facing us today are: What does success mean? Is success a matter of chance and luck or perhaps is success a category that can be planned and properly supported?

Business Intelligence and Big Data: Drivers of Organizational Success examines how the success of an organization largely depends on the ability to anticipate and quickly respond to challenges from the market, customers, and other stakeholders. Success is also associated with the potential to process and analyze a variety of information and the means to use modern information and communication technologies (ICTs). Success also requires creative behaviors and organizational cleverness from an organization.

The book discusses business intelligence (BI) and Big Data (BD) issues in the context of modern management paradigms and organizational success. It presents a theoretically and empirically grounded investigation into BI and BD application in organizations and examines such issues as:

- Analysis and interpretation of the essence of BI and BD
- Decision support
- Potential areas of BI and BD utilization in organizations
- Factors determining success with using BI and BD
- The role of BI and BD in value creation for organizations
- Identifying barriers and constraints related to BI and BD design and implementation

The book presents arguments and evidence confirming that BI and BD may be a trigger for making more effective decisions, improving business processes and business performance, and creating new business. The book proposes a comprehensive framework on how to design and use BI and BD to provide organizational success.



[Practical Data Mining Techniques and Applications, 1st ed](#)

Author : Ketan Shah, Neepa Shah dan Vinaya Sawant
No. Class : 005.7 SHA p
Link Pustaka : <https://doi.org/10.1201/9781003390220>

Description:

Data mining techniques and algorithms are extensively used to build real-world applications. A practical approach can be applied to data mining techniques to build applications. Once deployed, an application enables the developers to work on the users goals and mold the algorithms with respect to users perspectives.

Practical Data Mining Techniques and Applications focuses on various concepts related to data mining and how these techniques can be used to develop and deploy applications. The book provides a systematic composition of fundamental concepts of data mining blended with practical applications. The aim of this book is to provide access to practical data mining applications and techniques to help readers gain an understanding of data mining in practice. Readers also learn how relevant techniques and algorithms are applied to solve problems and to provide solutions to real-world applications in different domains. This book can help academicians to extend their knowledge of the field as well as their understanding of applications based on different techniques to gain greater insight. It can also help researchers with real-world applications by diving deeper into the domain. Computing science students, application developers, and business professionals may also benefit from this examination of applied data science techniques.

By highlighting an overall picture of the field, introducing various mining techniques, and focusing on different applications and research directions using these methods, this book can motivate discussions among academics, researchers, professionals, and students to exchange and develop their views regarding the dynamic field that is data mining.