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[ECIME 2014 Proceedings of the 8th European Conference on IS Management and Evaluation Jul 06 2020](#)

Market Intelligence Report: Car Security Sep 27 2019

Introduction To Knowledge Information Strategy, An: From Business Intelligence To Knowledge Sciences Jun 16 2021 This book discusses the essence, concepts, techniques, and applications of business intelligence. It also explores different aspects of crisis management, knowledge management and knowledge sciences, the applications of business intelligence in contingencies and crises, environmental issues and group intelligence. The book is divided into three parts. The first part focuses on the significance of business intelligence, competition and intelligence, competitive information strategy, conflicts on patent issues, and the current state-of-the-art of business intelligence education in the US and France. The second part encompasses business intelligence and risk and crisis management, ecological issues and crisis management, business intelligence and knowledge management, and business intelligence as an organizational knowledge. The third part consists of case studies in business intelligence with special reference to the retail industry and the military arena. This part also focuses on applications of business intelligence. Finally, the book also envisages the future direction of knowledge information strategy. It will be of interest to students, academicians and people working in non-profit or non-government organizations.

Business Analysis for Business Intelligence Aug 31 2022 Aligning business intelligence (BI) infrastructure with strategy processes not only improves your organization's ability to respond to change, but also adds significant value to your BI infrastructure and development investments. Until now, there has been a need for a comprehensive book on business analysis for BI that starts with a macro view and

Business Information Systems Workshops May 28 2022 This book constitutes the refereed proceedings of the five workshops that were organized in conjunction with the International Conference on Business Information Systems, BIS 2014, which took place in Larnaca, Cyprus, in May 2014. The 27 papers in this volume were carefully reviewed and selected from 53 submissions and were revised and extended after the event. The workshop topics covered applications and economics of knowledge-based technologies (AKTB), business and IT alignment (BITA), digital currencies (DC), modern applications of business information systems (MODAPP), and tools for setting up and running a business in cloud computing (TSRB). In addition a keynote paper is included in this book.

Utilizing Big Data Paradigms for Business Intelligence Dec 11 2020 Because efficient compilation of information allows managers and business leaders to make the best decisions for the financial solvency

of their organizations, data analysis is an important part of modern business administration. Understanding the use of analytics, reporting, and data mining in everyday business environments is imperative to the success of modern businesses. Utilizing Big Data Paradigms for Business Intelligence is a pivotal reference source that provides vital research on how to address the challenges of data extraction in business intelligence using the five “Vs” of big data: velocity, volume, value, variety, and veracity. This book is ideally designed for business analysts, investors, corporate managers, entrepreneurs, and researchers in the fields of computer science, data science, and business intelligence.

Advances in Conceptual Modeling Nov 29 2019 This book constitutes the refereed proceedings of seven workshops and a symposium, held at the 34th International Conference on Conceptual Modeling, ER 2015, in Stockholm, Sweden. The 26 revised full and 8 invited papers were carefully reviewed and selected out of 52 submissions to the following events: Conceptual Modelling for Ambient Assistance and Healthy Ageing, AHA-2015; Conceptual Modelling of Services, CMS-2015; Event Modelling and Processing in Business Process Management, EMoV-2015; Modelling and Management of Big Data, MoBID-2015; Modelling and Reasoning for Business Intelligence, MORE-BI-2015; Conceptual Modelling in Requirements Engineering and Business Analysis, MREBA-2015; Quality of Modelling and Modelling of Quality, QMMQ-2015; and the Symposium on Conceptual Modelling Education, SCME-2015.

Business Process Management Workshops Mar 14 2021 This book constitutes revised papers from the International Workshops held at the 19th International Conference on Business Process Management, BPM 2021, in Rome, Italy, during September 6-10, 2021. Papers from the following workshops are included: 5th International Workshop on Artificial Intelligence for Business Process Management (AI4BPM'21) 17th International Workshop on Business Process Intelligence (BPI'21) 1st International Workshop on BPM Governance for and Beyond Digital Transformation (BPMGOV'21) 1st International Workshop on Business Process Management and Routine Dynamics (BPM&RD'21) 14th International Workshop on Social and Human Aspects of Business Process Management (BPMS2'21) 9th International Workshop on DEClarative, DECision and Hybrid approaches to processes (DEC2H'21) 5th International Workshop on Business Processes Meet the Internet-of-Things (BP-Meet-IoT'21) 4th International Workshop on Security and Privacy-enhanced Business Process Management (SPBP'21) Each of the eight workshops focused on particular aspects of business process management. Overall, after a thorough review process, there were 31 full papers selected from a total of 60 submissions.

Business Process Management Workshops Dec 23 2021 This book constitutes the refereed proceedings of 6 international workshops held in conjunction with the 4th International Conference on Business Process Management, BPM 2006, in Vienna, Austria in September 2006. The 40 revised full papers presented were carefully reviewed and selected from a total of 94 overall submissions to six international workshops.

Organizational Applications of Business Intelligence Management: Emerging Trends Jan 30 2020 "This book offers a deep look into the latest research, tools, implementations, frameworks, architectures, and case studies within the field of Business Intelligence Management"--Provided by publisher.

Business Intelligence for the Real-Time Enterprise Sep 07 2020 In today's competitive and highly dynamic environment, analyzing data to understand how the business is performing, to predict outcomes and trends, and to improve the effectiveness of business processes underlying business operations has become critical. The traditional approach to reporting is no longer adequate, users now demand easy-to-use intelligent platforms and applications capable of analyzing real-time business data to provide insight and actionable information at the right time. The end goal is to improve the enterprise performance by better and timelier decision making, enabled by the availability of up-to-date, high-quality information. As a response, the notion of "real-time enterprise" has emerged and is beginning to be recognized in the

industry. Gartner defines it as “using up-to-date information, getting rid of delays, and using speed for competitive advantage is what the real-time enterprise is all about. . . Indeed, the goal of the real-time enterprise is to act on events as they happen. ” Although there has been progress in this direction and many companies are introducing products toward making this vision a reality, there is still a long way to go. In particular, the whole lifecycle of business intelligence requires new techniques and methodologies capable of dealing with the new requirements imposed by the real-time enterprise.

Business Intelligence Mar 26 2022 Business Intelligence (BI) promises an organization the capability of collecting and analyzing internal and external data to generate knowledge and value, providing decision support at the strategic, tactical, and operational levels. Business Intelligence is now impacted by the Big Data phenomena and the evolution of society and users, and needs to take into account high-level semantics, reasoning about unstructured and structured data, and to provide a simplified access and better understanding of diverse BI tools accessible through mobile devices. In particular, BI applications must cope with additional heterogeneous (often Web-based) sources, e.g., from social networks, blogs, competitors’, suppliers’, or distributors’ data, governmental or NGO-based analysis and papers, or from research publications. The lectures held at the First European Business Intelligence Summer School (eBISS), which are presented here in an extended and refined format, cover not only established BI technologies like data warehouses, OLAP query processing, or performance issues, but extend into new aspects that are important in this new environment and for novel applications, e.g., semantic technologies, social network analysis and graphs, services, large-scale management, or collaborative decision making. Combining papers by leading researchers in the field, this volume will equip the reader with the state-of-the-art background necessary for inventing the future of BI. It will also provide the reader with an excellent basis and many pointers for further research in this growing field.

Business Intelligence for the Real-Time Enterprises Jun 28 2022 This book constitutes the thoroughly refereed post-proceedings of the First International Workshop on Business Intelligence for the Real-Time Enterprise, BIRTE 2006, held in Seoul, Korea in September 2006 in conjunction with VLDB 2006, the International Conference on Very Large Data Bases. The papers discuss the five major aspects of business intelligence for the real-time enterprise.

Business Intelligence Competency Centers Jul 18 2021 Transform data into action for competitive advantage "The knowledge assets of an organization are becoming increasingly important for competitive advantage, and therefore, the way in which knowledge is created, renewed, and communicated is critical. This book provides practical insights into how this may be achieved through the establishment of a Business Intelligence Competency Centre and is a valuable read for 'information professionals.'" --Bill Sturman, Information Architecture Project Manager The Open University, United Kingdom "BI is more than technology and projects. BI must live in the organization--as a BICC. This book helps to make BI tangible and understandable, bringing it to life." --Miriam Eisenmann, Project Manager (PMP) CSC Ploenzke AG, Germany "This book is a must-read for planning and implementing your BICC. It is a pragmatic guide that addresses a lot, if not all, of the questions you'll be asking yourself. Don't miss out on getting a head start from the people who thought this through from start to finish . . . Pray your competitors don't get hold of this book!" --Claudia Imhoff, President Intelligent Solutions, Inc., USA "Creating a BICC forces the organization to focus on the importance of centralizing the gathering, interpreting, and analyzing of information to create business insight." --Anne Ulyate, Group Manager Business Intelligence Mutual & Federal, South Africa "BI is a highly visible element in the 'business value' trend for IT investments. Initiatives, such as competency centers, should empower user organizations to drive even more value out of their BI investments." --Marianne Kolding, Director, European Services IDC, United Kingdom

Strategic Intelligence Jun 04 2020 Strategic intelligence (SI) has mostly been used in military settings,

but its worth goes well beyond that limited role. It has become invaluable for improving any organization's strategic decision making process. The author of Strategic Intelligence: Business Intelligence, Competitive Intelligence, and Knowledge Management recognizes synergies among

Mastering Tableau 2019.1 Mar 02 2020 Build, design and improve advanced business intelligence solutions using Tableau's latest features, including Tableau Prep, Tableau Hyper, and Tableau Server

Key Features Master new features in Tableau 2019.1 to solve real-world analytics challenges Perform Geo-Spatial Analytics, Time Series Analysis, and self-service analytics using real-life examples Build and publish dashboards and explore storytelling using Python and MATLAB integration support

Book Description Tableau is one of the leading business intelligence (BI) tools used to solve BI and analytics challenges. With this book, you will master Tableau's features and offerings in various paradigms of the BI domain. This book is also the second edition of the popular Mastering Tableau series, with new features, examples, and updated code. The book covers essential Tableau concepts and its advanced functionalities. Using Tableau Hyper and Tableau Prep, you'll be able to handle and prepare data easily. You'll gear up to perform complex joins, spatial joins, union, and data blending tasks using practical examples. Following this, you'll learn how to perform data densification to make displaying granular data easier. Next, you'll explore expert-level examples to help you with advanced calculations, mapping, and visual design using various Tableau extensions. With the help of examples, you'll also learn about improving dashboard performance, connecting Tableau Server, and understanding data visualizations. In the final chapters, you'll cover advanced use cases such as Self-Service Analytics, Time Series Analytics, and Geo-Spatial Analytics, and learn to connect Tableau to R, Python, and MATLAB. By the end of this book, you'll have mastered the advanced offerings of Tableau and be able to tackle common and not-so-common challenges faced in the BI domain. What you will learn

Get up to speed with various Tableau components Master data preparation techniques using Tableau Prep Discover how to use Tableau to create a PowerPoint-like presentation Understand different Tableau visualization techniques and dashboard designs Interact with the Tableau server to understand its architecture and functionalities Study advanced visualizations and dashboard creation techniques Brush up on powerful Self-Service Analytics, Time Series Analytics, and Geo-Spatial Analytics

Who this book is for This book is designed for business analysts, BI professionals and data analysts who want to master Tableau to solve a range of data science and business intelligence problems. The book is ideal if you have a good understanding of Tableau and want to take your skills to the next level.

Progressive Methods in Data Warehousing and Business Intelligence: Concepts and Competitive Analytics Jul 30 2022 Provides developments and research, as well as current innovative activities in data warehousing and mining, focusing on the intersection of data warehousing and business intelligence.

Business Process Management Workshops Apr 14 2021 This book constitutes revised papers from the twelve International Workshops held at the 17th International Conference on Business Process Management, BPM 2019, in Vienna, Austria, in September 2019: The third International Workshop on Artificial Intelligence for Business Process Management (AI4BPM) The third International Workshop on Business Processes Meet Internet-of-Things (BP-Meet-IoT) The 15th International Workshop on Business Process Intelligence (BPI) The first International Workshop on Business Process Management in the era of Digital Innovation and Transformation (BPMInDIT) The 12th International Workshop on Social and Human Aspects of Business Process Management (BPMS2) The 7th International Workshop on Declarative, Decision and Hybrid approaches to processes (DEC2H) The second International Workshop on Methods for Interpretation of Industrial Event Logs (MIEL) The first International Workshop on Process Management in Digital Production (PM-DiPro) The second International Workshop on Process-Oriented Data Science for Healthcare (PODS4H) The fourth International

Workshop on Process Querying (PQ) The second International Workshop on Security and Privacy-enhanced Business Process Management (SPBP) The first International Workshop on the Value and Quality of Enterprise Modelling (VENMo) Each of the workshops discussed research still in progress and focused on aspects of business process management, either a particular technical aspect or a particular application domain. These proceedings present the work that was discussed during the workshops.

Proceedings of the 8th International Conference on Decision Support System Technology – ICDSST 2022 on Decision Support addressing modern Industry, Business and Societal needs Oct 28 2019

Bridging the Socio-technical Gap in Decision Support Systems Dec 31 2019 Presents the advances in decision support theory and practice with a focus on bridging the socio-technical gap. This book covers a wide range of topics including: Understanding DM, Design of DSS, Web 2.0 Systems in Decision Support, Business Intelligence and Data Warehousing, Applications of Multi-Criteria Decision Analysis, and more.

Business Process Management Workshops Sep 19 2021 This book constitutes the thoroughly refereed post-workshop proceedings of nine international workshops held in Hoboken, NJ, USA, in conjunction with the 8th International Conference on Business Process Management, BPM 2010, in September 2010. The nine workshops focused on Reuse in Business Process Management (rBPM 2010), Business Process Management and Sustainability (SusBPM 2010), Business Process Design (BPD 2010), Business Process Intelligence (BPI 2010), Cross-Enterprise Collaboration, People, and Work (CEC-PAW 2010), Process in the Large (IW-PL 2010), Business Process Management and Social Software (BPMS2 2010), Event-Driven Business Process Management (edBPM 2010), and Traceability and Compliance of Semi-Structured Processes (TC4SP 2010). In addition, three papers from the special track on Advances in Business Process Education are also included in this volume. The overall 66 revised full papers presented were carefully reviewed and selected from 143 submissions.

Social E-Enterprise: Value Creation through ICT May 04 2020 As the importance of the social sector has increased in recent years, utilizing social enterprise aids in the development of knowledge, research, and practices in order to achieve an organizations' goals. Therefore, an understanding of ICT implementation in regards to social enterprise is crucial for effectiveness. Social E-Enterprise: Value Creation through ICT provides research on the understanding of ICT in the social enterprise field as it emerges as a major component of both business model and developed economy. This reference source focuses on the role of information communication technology as it promotes the development of the social sector.

Video Analytics for Business Intelligence Apr 02 2020 Closed Circuit TeleVision (CCTV) cameras have been increasingly deployed pervasively in public spaces including retail centres and shopping malls. Intelligent video analytics aims to automatically analyze content of massive amount of public space video data and has been one of the most active areas of computer vision research in the last two decades. Current focus of video analytics research has been largely on detecting alarm events and abnormal behaviours for public safety and security applications. However, increasingly CCTV installations have also been exploited for gathering and analyzing business intelligence information, in order to enhance marketing and operational efficiency. For example, in retail environments, surveillance cameras can be utilised to collect statistical information about shopping behaviour and preference for marketing (e.g., how many people entered a shop; how many females/males or which age groups of people showed interests to a particular product; how long did they stay in the shop; and what are the frequent paths), and to measure operational efficiency for improving customer experience. Video analytics has the enormous potential for non-security oriented commercial applications. This book presents the latest developments on video analytics for business intelligence applications. It provides

both academic and commercial practitioners an understanding of the state-of-the-art and a resource for potential applications and successful practice.

Applying Business Intelligence Initiatives in Healthcare and Organizational Settings Oct 09 2020 Data analysis is an important part of modern business administration, as efficient compilation of information allows managers and business leaders to make the best decisions for the financial solvency of their organizations. Understanding the use of analytics, reporting, and data mining in everyday business environments is imperative to the success of modern businesses. Applying Business Intelligence Initiatives in Healthcare and Organizational Settings incorporates emerging concepts, methods, models, and relevant applications of business intelligence systems within problem contexts of healthcare and other organizational boundaries. Featuring coverage on a broad range of topics such as rise of embedded analytics, competitive advantage, and strategic capability, this book is ideally designed for business analysts, investors, corporate managers, and entrepreneurs seeking to advance their understanding and practice of business intelligence.

Enabling Real-Time Business Intelligence Apr 26 2022 This book constitutes the thoroughly refereed post-conference proceedings of the Third International Workshop on Business Intelligence for the Real-Time Enterprise, BIRTE 2009, held in Lyon, France, in August 2009, in conjunction with VLDB 2009, the International Conference on Very Large Data Bases. The volume contains the carefully reviewed selected papers from the workshop, including one of the two keynotes, the six research, two industrial, and one experimental paper, and also the basic statements from the panel discussion on “Merging OLTP and OLAP”. The topical focus is on models and concepts, architectures, case-studies, and applications of technologies for real-time enterprise business intelligence.

Enabling Real-Time Business Intelligence Dec 03 2022 This book constitutes the thoroughly refereed conference proceedings of the 7th International Workshop on Business Intelligence for the Real-Time Enterprise, BIRTE 2013, held in Riva del Garda, Italy, in August 2013 and of the 8th International Workshop on Business Intelligence for the Real-Time Enterprise, BIRTE 2014, held in Hangzhou, China, in September 2014, in conjunction with VLDB 2013 and 2014, the International Conference on Very Large Data Bases. The BIRTE workshop series provides a forum for the discussion and advancement of the science and engineering enabling real-time business intelligence and the novel applications that build on these foundational techniques. This volume contains five full, two short, and two demo papers, which were carefully reviewed and selected with an acceptance rate of 45%. In addition, one keynote and three invited papers are included.

Managing Frontiers in Competitive Intelligence Nov 21 2021 For specialists and nonspecialists alike, this perceptive selection of the newest and the up and coming tools and techniques of competitive intelligence picks up where other books leave off, offering a well balanced combination of theory and practice. It shows how advances in computers and technology have accelerated progress in CI management, and the ways in which CI has affected (and been affected by) major business functions and processes. It explores applications to organizations of various sizes and types. Analysts, strategists and organizational decision makers will find the book especially valuable, as they seek to make sense of the business environment and assess their organizations' evolving, dynamic places in it.

The Applied Artificial Intelligence Workshop Nov 02 2022

Enabling Real-Time Business Intelligence Nov 09 2020 This book constitutes the thoroughly refereed conference proceedings of the 6th International Workshop on Business Intelligence for the Real-Time Enterprise, BIRTE 2012, held in Istanbul, Turkey, in August 2012, in conjunction with VLDB 2012, the International Conference on Very Large Data Bases. The BIRTE workshop series provides a forum to discuss and advance the science and engineering enabling real-time business intelligence and the novel applications that build on these foundational techniques. This volume contains ten research papers,

which were carefully reviewed and selected from 13 submissions.

Social Networking Aug 26 2019 Social network analysis (SNA) is a technique that is used to determine knowledge flows and gaps in mapping social networks for various knowledge types. *Social Networking: The Essence of Innovation* discusses how social networking and SNA can influence innovation in an organization through the presentation of a broad range of concepts, examples, and case studies. The book's initial chapters deal with developing personal knowledge networks, linking social networking to innovation and strategic intelligence, and exploring synergies among knowledge management, business intelligence, and competitive intelligence. The introduction, an overview of social network analysis, is followed by case studies and an exploration of applications, including knowledge mapping and the analysis of organizations. Software systems devoted to these areas are described, citing results achieved, and a final chapter takes a look at future prospects, making this an essential tool for managers, executives, business analysts, educators, and strategic planners.

Information Quality and Governance for Business Intelligence Oct 21 2021 Business intelligence initiatives have been dominating the technology priority list of many organizations. However, the lack of effective information quality and governance strategies and policies has been meeting these initiatives with some challenges. *Information Quality and Governance for Business Intelligence* presents the latest exchange of academic research on all aspects of practicing and managing information using a multidisciplinary approach that examines its quality for organizational growth. This book is an essential reference tool for researchers, practitioners, and university students specializing in business intelligence, information quality, and information systems.

Enabling Real-Time Business Intelligence Jan 24 2022 This book constitutes the thoroughly refereed conference proceedings of the 5th International Workshop on Business Intelligence for the Real-Time Enterprise, BIRTE 2011, held in Seattle, WA, USA, in September 2011, in conjunction with VLDB 2011, the International Conference on Very Large Data Bases. The series of BIRTE workshops aims to provide a forum for researchers to discuss and advance the foundational science and engineering required to enable real-time business intelligence as well as novel applications and solutions based on these foundational techniques. The volume contains 6 research papers, which have been carefully reviewed and selected from 12 submissions, plus the 3 keynotes presented at the workshop. The topics cover all stages of the business intelligence cycle, including capturing of real-time data, handling of temporal or uncertain data, performance issues, event management, and the optimization of complex ETL workflows. The volume contains 6 research papers, which have been carefully reviewed and selected from 12 submissions, plus the 3 keynotes presented at the workshop. The topics cover all stages of the business intelligence cycle, including capturing of real-time data, handling of temporal or uncertain data, performance issues, event management, and the optimization of complex ETL workflows.

Microsoft Power BI Complete Reference Feb 10 2021 Design, develop, and master efficient Power BI solutions for impactful business insights Key FeaturesGet to grips with the fundamentals of Microsoft Power BI Combine data from multiple sources, create visuals, and publish reports across platformsUnderstand Power BI concepts with real-world use casesBook Description Microsoft Power BI Complete Reference Guide gets you started with business intelligence by showing you how to install the Power BI toolset, design effective data models, and build basic dashboards and visualizations that make your data come to life. In this Learning Path, you will learn to create powerful interactive reports by visualizing your data and learn visualization styles, tips and tricks to bring your data to life. You will be able to administer your organization's Power BI environment to create and share dashboards. You will also be able to streamline deployment by implementing security and regular data refreshes. Next, you will delve deeper into the nuances of Power BI and handling projects. You will get acquainted with

planning a Power BI project, development, and distribution of content, and deployment. You will learn to connect and extract data from various sources to create robust datasets, reports, and dashboards. Additionally, you will learn how to format reports and apply custom visuals, animation and analytics to further refine your data. By the end of this Learning Path, you will learn to implement the various Power BI tools such as on-premises gateway together along with staging and securely distributing content via apps. This Learning Path includes content from the following Packt products: Microsoft Power BI Quick Start Guide by Devin Knight et al. Mastering Microsoft Power BI by Brett Powell

What you will learn

- Connect to data sources using both import and DirectQuery options
- Leverage built-in and custom visuals to design effective reports
- Administer a Power BI cloud tenant for your organization
- Deploy your Power BI Desktop files into the Power BI Report Server
- Build efficient data retrieval and transformation processes

Who this book is for

Microsoft Power BI Complete Reference Guide is for those who want to learn and use the Power BI features to extract maximum information and make intelligent decisions that boost their business. If you have a basic understanding of BI concepts and want to learn how to apply them using Microsoft Power BI, then Learning Path is for you. It consists of real-world examples on Power BI and goes deep into the technical issues, covers additional protocols, and much more.

Real-Time Business Intelligence and Analytics Jan 04 2023 This book constitutes the thoroughly refereed conference proceedings of the BIRTE workshops listed below, which were held in in conjunction with VLDB, the International Conference on Very Large Data Bases: 9th International Workshop on Business Intelligence for the Real-Time Enterprise, BIRTE 2015, held in Kohala Coast, Hawaii, in August 2015, 10th International Workshop on Enabling Real-Time Business Intelligence, BIRTE 2016, held in New Delhi, India, in September 2016, 11th International Workshop on Real-Time Business Intelligence and Analytics, BIRTE 2017, held in Munich, Germany, in August 2017. The BIRTE workshop series provides a forum for the discussion and advancement of the science and engineering enabling real-time business intelligence and the novel applications that build on these foundational techniques. The book includes five selected papers from BIRTE 2015; five selected papers from BIRTE 2016; and three selected papers from BIRTE 2017.

Predictive Intelligence for Data-Driven Managers Aug 07 2020 This book describes how companies can easily and pragmatically set up and realize the path to a data-driven enterprise, especially in the marketing practice, without external support and additional investments. Using a predictive intelligence (PI) ecosystem, the book first introduces and explains the most important concepts and terminology. The PI maturity model then describes the phases in which you can build a PI ecosystem in your company. The book also demonstrates a PI self-test which helps managers identify the initial steps. In addition, a blueprint for a PI tech stack is defined for the first time, showing how IT can best support the topic. Finally, the PI competency model summarizes all elements into an action model for the company. The entire book is underpinned with practical examples, and case studies show how predictive intelligence, in the spirit of data-driven management, can be used profitably in the short, medium, and long terms.

The Applied Artificial Intelligence Workshop Oct 01 2022 With knowledge and information shared by experts, take your first steps towards creating scalable AI algorithms and solutions in Python, through practical exercises and engaging activities

Key Features

- Learn about AI and ML algorithms from the perspective of a seasoned data scientist
- Get practical experience in ML algorithms, such as regression, tree algorithms, clustering, and more
- Design neural networks that emulate the human brain

Book Description

You already know that artificial intelligence (AI) and machine learning (ML) are present in many of the tools you use in your daily routine. But do you want to be able to create your own AI and ML models and develop your skills in these domains to kickstart your AI career? The Applied Artificial Intelligence Workshop gets you started with applying AI with the help of practical exercises and useful examples, all put together cleverly to help you gain the skills to transform your career. The

book begins by teaching you how to predict outcomes using regression. You'll then learn how to classify data using techniques such as k-nearest neighbor (KNN) and support vector machine (SVM) classifiers. As you progress, you'll explore various decision trees by learning how to build a reliable decision tree model that can help your company find cars that clients are likely to buy. The final chapters will introduce you to deep learning and neural networks. Through various activities, such as predicting stock prices and recognizing handwritten digits, you'll learn how to train and implement convolutional neural networks (CNNs) and recurrent neural networks (RNNs). By the end of this applied AI book, you'll have learned how to predict outcomes and train neural networks and be able to use various techniques to develop AI and ML models. What you will learn

- Create your first AI game in Python with the minmax algorithm
- Implement regression techniques to simplify real-world data
- Experiment with classification techniques to label real-world data
- Perform predictive analysis in Python using decision trees and random forests
- Use clustering algorithms to group data without manual support
- Learn how to use neural networks to process and classify labeled images

Who this book is for The Applied Artificial Intelligence Workshop is designed for software developers and data scientists who want to enrich their projects with machine learning. Although you do not need any prior experience in AI, it is recommended that you have knowledge of high school-level mathematics and at least one programming language, preferably Python. Although this is a beginner's book, experienced students and programmers can improve their Python skills by implementing the practical applications given in this book.

Integration Challenges for Analytics, Business Intelligence, and Data Mining May 16 2021 As technology continues to advance, it is critical for businesses to implement systems that can support the transformation of data into information that is crucial for the success of the company. Without the integration of data (both structured and unstructured) mining in business intelligence systems, invaluable knowledge is lost. However, there are currently many different models and approaches that must be explored to determine the best method of integration. *Integration Challenges for Analytics, Business Intelligence, and Data Mining* is a relevant academic book that provides empirical research findings on increasing the understanding of using data mining in the context of business intelligence and analytics systems. Covering topics that include big data, artificial intelligence, and decision making, this book is an ideal reference source for professionals working in the areas of data mining, business intelligence, and analytics; data scientists; IT specialists; managers; researchers; academicians; practitioners; and graduate students.

Integration of Data Mining in Business Intelligence Systems Aug 19 2021 Uncovering and analyzing data associated with the current business environment is essential in maintaining a competitive edge. As such, making informed decisions based on this data is crucial to managers across industries. *Integration of Data Mining in Business Intelligence Systems* investigates the incorporation of data mining into business technologies used in the decision making process. Emphasizing cutting-edge research and relevant concepts in data discovery and analysis, this book is a comprehensive reference source for policymakers, academicians, researchers, students, technology developers, and professionals interested in the application of data mining techniques and practices in business information systems.

User-directed Competitive Intelligence Feb 22 2022 A cogent, compelling argument for the corporate competitive intelligence function, and a practical guide to implementing and benefiting from it.

Agile Data Warehouse Design Jan 12 2021 *Agile Data Warehouse Design* is a step-by-step guide for capturing data warehousing/business intelligence (DW/BI) requirements and turning them into high performance dimensional models in the most direct way: by modelstorming (data modeling + brainstorming) with BI stakeholders. This book describes BEAM?, an agile approach to dimensional modeling, for improving communication between data warehouse designers, BI stakeholders and the whole DW/BI development team. BEAM? provides tools and techniques that will encourage DW/BI

designers and developers to move away from their keyboards and entity relationship based tools and model interactively with their colleagues. The result is everyone thinks dimensionally from the outset! Developers understand how to efficiently implement dimensional modeling solutions. Business stakeholders feel ownership of the data warehouse they have created, and can already imagine how they will use it to answer their business questions. Within this book, you will learn: ? Agile dimensional modeling using Business Event Analysis & Modeling (BEAM?) ? Modelstorming: data modeling that is quicker, more inclusive, more productive, and frankly more fun! ? Telling dimensional data stories using the 7Ws (who, what, when, where, how many, why and how) ? Modeling by example not abstraction; using data story themes, not crow's feet, to describe detail ? Storyboarding the data warehouse to discover conformed dimensions and plan iterative development ? Visual modeling: sketching timelines, charts and grids to model complex process measurement - simply ? Agile design documentation: enhancing star schemas with BEAM? dimensional shorthand notation ? Solving difficult DW/BI performance and usability problems with proven dimensional design patterns Lawrence Corr is a data warehouse designer and educator. As Principal of DecisionOne Consulting, he helps clients to review and simplify their data warehouse designs, and advises vendors on visual data modeling techniques. He regularly teaches agile dimensional modeling courses worldwide and has taught dimensional DW/BI skills to thousands of students. Jim Stagnitto is a data warehouse and master data management architect specializing in the healthcare, financial services, and information service industries. He is the founder of the data warehousing and data mining consulting firm Llumino.