

Business Intelligence Systems

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The aim of this article is to show the importance of business intelligence and its growing influence. It also shows when the concept of business intelligence was used for the first time and how it evolved over time. The paper discusses the utility of a business intelligence system in any organization and its contribution to daily activities. Furthermore, we highlight the role and the objectives of business intelligence systems inside an organization and the needs to grow the incomes and reduce the costs, to manage the complexity of the business environment and to cut IT costs so that the organization survives in the current competitive climate. The article contains information about architectural principles of a business intelligence system and how such a system can be achieved.

Keywords: Business Intelligence, Data warehouse, OLAP

1 The Business Intelligence Concept and its Appearance

The concept of business intelligence became more and more used during the last years, and now, this association of terms is used across different fields from data technology to business modeling.

Business intelligence represents a wide area of applications and technologies for collecting, storing, analyzing and providing access to information for improving businesses process modeling quality. [1]

The business intelligence statement, „getting the right information to the right people at the right time” [2] focuses on the fact that business intelligence uses information and not data due to the included capabilities for processing raw data into intelligent information, that is valid and accepted by the entire company and which can be consistently used in process modeling.

The business intelligence term was introduced by Gartner Group in middle of the 90s. The concept, on the other hand, existed long before being used in mainframe reporting systems.

The Gartner Group defines business intelligence as “an umbrella term that includes the applications, infrastructure and tools, and best practices that enable access to and analysis of information to improve and optimize decisions and performance”. [2]

It was due to reporting and analyzing requirements that the need for such systems keeps the same growth rate as technology does.

We can all agree that in the current economic environment, information and its accuracy represent a successful key to any business. Though it’s about accomplishing a simple sales report or extracting raw data from a database, analyzing data always provided precious information to company managers.

Over time, the interesting data was provided to persons with decisional role within a company as reports, statistics or analyzing documents. But what happens when the volume of data increases so much that classical storage and reporting systems can’t keep up with it?

At the beginning, some decided to archive old data and keep the current data. This solution worked perfectly until it was realized that old data is as good as the new

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Sibaram Prasad Panda, Anita Padhy



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Intelligent Information and Database Systems Jeng-Shyang Pan, Shyi-Ming Chen, Ngoc Thanh Nguyen, 2012-03-02 The three volume set LNAI 7196 LNAI 7197 and LNAI 7198 constitutes the refereed proceedings of the 4th Asian Conference on Intelligent Information and Database Systems ACIIDS 2012 held in Kaohsiung Taiwan in March 2012 The 161 revised papers presented were carefully reviewed and selected from more than 472 submissions The papers included cover the following topics intelligent database systems data warehouses and data mining natural language processing and computational linguistics semantic Web social networks and recommendation systems collaborative systems and applications e business and e commerce systems e learning systems information modeling and requirements engineering information retrieval systems intelligent agents and multi agent systems intelligent information systems intelligent internet systems intelligent optimization techniques object relational DBMS ontologies and knowledge sharing semi structured and XML database systems unified modeling language and unified processes Web services and semantic Web computer networks and communication systems *Data-Driven Business Intelligence Systems for Socio-Technical Organizations* Keikhosrokiani, Pantea, 2024-04-09 The convergence of modern technology and social dynamics have shaped the very fabric of today's organizations making the role of Business Intelligence BI profoundly significant Data Driven Business Intelligence Systems for Socio Technical Organizations delves into the heart of this transformative realm offering an academic exploration of the tools strategies and methodologies that propel enterprises toward data driven decision making excellence Socio technical organizations with their intricate interplay between human and technological components require a unique approach to BI This book embarks on a comprehensive journey revealing how BI tools empower these entities to decipher the complexities of their data landscape From user behavior to social interactions technological systems to environmental factors this work sheds light on the multifaceted sources of information that inform organizational strategies Decision makers within socio technical organizations leverage BI insights to discern patterns spot trends and uncover correlations that influence operations and the intricate social dynamics within their entities Research covering real time monitoring and predictive analytics equips these organizations to respond swiftly to demands and anticipate future trends harnessing the full potential of data The book delves into their design development and architectural nuances illuminating these concepts through case studies This book is ideal for business executives entrepreneurs data analysts marketers government officials educators and researchers ENTERprise Information Systems, Part II Joao Eduardo Quintela Varajao, Maria Manuela Cruz-Cunha, Goran D. Putnik, Antonio Trigo, 2010-10-08 This book constitutes the proceedings of the International Conference on ENTERprise information systems held Viana do Castelo Portugal in October 2010 Business Intelligence with Power BI and Tableau: Cloud-Based Data Warehousing, Predictive Analytics, and Artificial Intelligence-Driven Decision Support Sibaram Prasad Panda, Anita Padhy, 2025-08-15 The Advanced Business Intelligence Tools and Techniques for Data Driven Decision Making

provides a comprehensive discovery of the modern ecosystem for business intelligence which detects the development from stable reports to dynamic real time analysis A dedicated comparison considers each tool on important dimensions including matrix prices integration skills scalability and purpose which allows informed decisions The book concludes by detecting practical sector specific applications of BI showing how industries to reveal insights into health services from finance to increase efficiency and maintain a competitive management to industries Whether for IT subjects data analysts or business executives this guide acts as a reference and a roadmap to navigate in diverse BI tools Metrics and Models for Evaluating the Quality and Effectiveness of ERP Software Muketha, Geoffrey Muchiri, Micheni, Elyjoy Muthoni, 2019-07-26 Enterprise resource planning ERP is a class of integrated software that uses software technologies to implement real time management of business processes in an organization ERPs normally cut across organizations making them large and complex Software researchers have for many years established that complexity affects software quality negatively and must therefore be controlled with novel metrics and models of evaluation that can determine when the software is at acceptable levels of quality and when not Metrics and Models for Evaluating the Quality and Effectiveness of ERP Software is a critical scholarly publication that examines ERP development performance and challenges in business settings to help improve decision making in organizations that have embraced ERPs improve the efficiency and effectiveness of their activities and improve their return on investments ROI Highlighting a wide range of topics such as data mining higher education and security this book is essential for professionals software developers researchers academicians and security professionals **Data Analytics for Business Intelligence** Zhaohao Sun, 2024-12-30 This book studies data analytics and intelligence using Boolean structure Chapters dive into the theories foundations technologies and methods of data analytics and intelligence The primary aim of this book is to convey the theories and technologies of data analytics and intelligence with applications to readers based on systematic generalization and specialization Sun uses the Boolean structure to deconstruct all books and papers related to data analytics and intelligence and to reorganize them to reshape the world of big data data analytics analytics intelligence data science and artificial intelligence Multi industry applications in business management and decision making are provided Cutting edge theories technologies and applications of data analytics and intelligence and their integration are also explored Overall this book provides original insights on sharing computing insight computing platform computing a calculus of intelligent analytics and intelligent business analytics meta computing data analyticizing DDPP descriptive diagnostic predictive and prescriptive computing and analytics This book is a useful resource with multi industry applications for scientists engineers data analysts educators and university students **Internet of Things and Big Data Analytics Toward Next-Generation Intelligence** Nilanjan Dey, Aboul Ella Hassanien, Chintan Bhatt, Amira S. Ashour, Suresh Chandra Satapathy, 2017-08-14 This book highlights state of the art research on big data and the Internet of Things IoT along with related areas to ensure efficient and Internet compatible IoT systems It not only discusses big data

security and privacy challenges but also energy efficient approaches to improving virtual machine placement in cloud computing environments Big data and the Internet of Things IoT are ultimately two sides of the same coin yet extracting analyzing and managing IoT data poses a serious challenge Accordingly proper analytics infrastructures platforms should be used to analyze IoT data Information technology IT allows people to upload retrieve store and collect information which ultimately forms big data The use of big data analytics has grown tremendously in just the past few years At the same time the IoT has entered the public consciousness sparking people's imaginations as to what a fully connected world can offer Further the book discusses the analysis of real time big data to derive actionable intelligence in enterprise applications in several domains such as in industry and agriculture It explores possible automated solutions in daily life including structures for smart cities and automated home systems based on IoT technology as well as health care systems that manage large amounts of data big data to improve clinical decisions The book addresses the security and privacy of the IoT and big data technologies while also revealing the impact of IoT technologies on several scenarios in smart cities design Intended as a comprehensive introduction it offers in depth analysis and provides scientists engineers and professionals the latest techniques frameworks and strategies used in IoT and big data technologies

Proceedings of the 5th International Conference on Decision Support System Technology - ICDSST 2019 & EURO Mini Conference 2019 Paulo Sérgio Abreu Freitas,Fátima Dargam,Rita Ribeiro,José Maria Moreno Jimenez,Jason Papathanasiou,2019-05-27

Handbook of Research on Applied AI for International Business and Marketing Applications Christiansen, Bryan,Škrinjarić, Tihana,2020-09-25 Artificial intelligence AI describes machines computers that mimic cognitive functions that humans associate with other human minds such as learning and problem solving As businesses have evolved to include more automation of processes it has become more vital to understand AI and its various applications Additionally it is important for workers in the marketing industry to understand how to coincide with and utilize these techniques to enhance and make their work more efficient The Handbook of Research on Applied AI for International Business and Marketing Applications is a critical scholarly publication that provides comprehensive research on artificial intelligence applications within the context of international business Highlighting a wide range of topics such as diversification risk management and artificial intelligence this book is ideal for marketers business professionals academicians practitioners researchers and students

Database Systems for Advanced Applications Jianliang Xu,Ge Yu,Shuigeng Zhou,Rainer Unland,2011-04-06 This book constitutes the workshop proceedings of the 16th International Conference on Database Systems for Advanced Applications DASFAA 2011 held in Hong Kong China in April 2011 The volume contains six workshops each focusing on specific research issues that contribute to the main themes of the DASFAA conference The First International Workshop on Graph structured Data Bases GDB 2011 the First International Workshop on Spatial Information Modeling Management and Mining SIM3 2011 the International Workshop on Flash based Database Systems FlashDB 2011 the Second International Workshop on Social

Networks and Social Media Mining on the Web SNSMW 2011 the First International Workshop on Data Management for Emerging Network Infrastructures DaMEN 2011 and the Fourth International Workshop on Data Quality in Integration Systems DQIS 2011

A Research Agenda for HR Analytics Vicenc Fernandez, 2024-12-09 This Research Agenda explores the crucial role of HR analytics in modern organizations examining diverse methodologies data sources and ethical considerations It demonstrates how HR analytics can be used to navigate the complex challenges of digital transformation and implementing data driven practices in human resource management

Progressive Methods in Data Warehousing and Business Intelligence: Concepts and Competitive Analytics Taniar, David, 2009-02-28 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

Research Anthology on Big Data Analytics, Architectures, and Applications Management Association, Information Resources, 2021-09-24 Society is now completely driven by data with many industries relying on data to conduct business or basic functions within the organization With the efficiencies that big data bring to all institutions data is continuously being collected and analyzed However data sets may be too complex for traditional data processing and therefore different strategies must evolve to solve the issue The field of big data works as a valuable tool for many different industries The Research Anthology on Big Data Analytics Architectures and Applications is a complete reference source on big data analytics that offers the latest innovative architectures and frameworks and explores a variety of applications within various industries Offering an international perspective the applications discussed within this anthology feature global representation Covering topics such as advertising curricula driven supply chain and smart cities this research anthology is ideal for data scientists data analysts computer engineers software engineers technologists government officials managers CEOs professors graduate students researchers and academicians

DSS 2.0 - Supporting Decision Making With New Technologies Sven Carlsson, Patrick Brezillon, 2014-05-15 Advances in technology have resulted in new and advanced methods to support decision making For example artificial intelligence has enabled people to make better decisions through the use of Intelligent Decision Support Systems DSS Emerging research in DSS demonstrates that decision makers can operate in a more timely manner using real time data more accurately due to data mining and big data methods more strategically by considering a greater number of factors more precisely and inclusively due to the availability of social networking data and with a wider media reach with video and audio technology This book presents the proceedings of the IFIP TC8 Working Group 8 3 conference held at the Universit Pierre et Marie Curie in Paris France in June 2014 Throughout its history the conference has aimed to present the latest innovations and achievements in Decision Support Systems This year the conference looks to the next generation with the theme of new technologies to enable DSS2 0 The topics covered include theoretical empirical and design science research case based approaches in decision support systems decision models in the real world healthcare information technology decision making theory knowledge management knowledge and

resource discovery business intelligence group decision support systems collaborative decision making analytics and big data rich language for decision support multimedia tools for DSS Web 2.0 systems in decision support context based technologies for decision making intelligent systems and technologies in decision support organizational decision support research methods in DSS 2.0 mobile DSS competing on analytics and social media analytics The book will be of interest to all those who develop or use Decision Support Systems The variety of methods and applications illustrated by this international group of carefully reviewed papers should provide ideas and directions for future researchers and practitioners alike New Trends in the Use of Artificial Intelligence for the Industry 4.0 Luis Romeral Martinez, Roque A. Osornio-Rios, Miguel Delgado Prieto, 2020-03-25 Industry 4.0 is based on the cyber physical transformation of processes systems and methods applied in the manufacturing sector and on its autonomous and decentralized operation Industry 4.0 reflects that the industrial world is at the beginning of the so called Fourth Industrial Revolution characterized by a massive interconnection of assets and the integration of human operators with the manufacturing environment In this regard data analytics and specifically the artificial intelligence is the vehicular technology towards the next generation of smart factories Chapters in this book cover a diversity of current and new developments in the use of artificial intelligence on the industrial sector seen from the fourth industrial revolution point of view namely cyber physical applications artificial intelligence technologies and tools Industrial Internet of Things and data analytics This book contains high quality chapters containing original research results and literature review of exceptional merit Thus it is in the aim of the book to contribute to the literature of the topic in this regard and let the readers know current and new trends in the use of artificial intelligence for the Industry 4.0 **Handbook of Research on Technology Integration in the Global World** Idemudia, Efosa C., 2018-07-27 Technology's presence in society continues to increase as new products and programs emerge As such it is vital for various industries to rapidly adapt and learn to incorporate the latest technology applications and tools The Handbook of Research on Technology Integration in the Global World is an essential reference source that examines a variety of approaches to integrating technology through technology diffusion e collaboration and e adoption The book explores topics such as information systems agility semantic web and the digital divide This publication is a valuable resource for academicians practitioners researchers and upper level graduate students *Analytics and Data Science* Amit V. Deokar, Ashish Gupta, Lakshmi S. Iyer, Mary C. Jones, 2017-10-05 This book explores emerging research and pedagogy in analytics and data science that have become core to many businesses as they work to derive value from data The chapters examine the role of analytics and data science to create spread develop and utilize analytics applications for practice Selected chapters provide a good balance between discussing research advances and pedagogical tools in key topic areas in analytics and data science in a systematic manner This book also focuses on several business applications of these emerging technologies in decision making i.e business analytics The chapters in Analytics and Data Science Advances in Research and Pedagogy are written by leading academics and

practitioners that participated at the Business Analytics Congress 2015 Applications of analytics and data science technologies in various domains are still evolving For instance the explosive growth in big data and social media analytics requires examination of the impact of these technologies and applications on business and society As organizations in various sectors formulate their IT strategies and investments it is imperative to understand how various analytics and data science approaches contribute to the improvements in organizational information processing and decision making Recent advances in computational capacities coupled by improvements in areas such as data warehousing big data analytics semantics predictive and descriptive analytics visualization and real time analytics have particularly strong implications on the growth of analytics and data science

Applying Business Intelligence Initiatives in Healthcare and Organizational Settings Miah, Shah J.,Yeoh, William,2018-07-13 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

Intelligent Systems in Healthcare and Disease Identification using Data Science Gururaj H L,Radhika A D,Divya C D,Ravi Kumar V,Yu-Chen Hu,2023-10-10 The health technology has become a hot topic in academic research It employs the theory of social networks into the different levels of the prediction and analysis and has brought new possibilities for the development of technology This book is a descriptive summary of challenges and methods using disease identification with various case studies from diverse authors across the globe One of the new buzzwords in healthcare sector that has become popular over years is health informatics Healthcare professionals must deal with an increasing number of computers and computer programs in their daily work With rapid growth of digital data the role of analytics in healthcare has created a significant impact on healthcare professional s life Improvements in storage data computational power and parallelization has also contributed to uptake this technology This book is intended for use by researchers health informatics professionals academicians and undergraduate and postgraduate students interested in knowing more about health informatics It aims to provide a brief overview about informatics its history and area of practice laws in health informatics challenges and technologies in health informatics application of informatics in various sectors and so on Finally the research avenues in health informatics along with some case studies are discussed

The Handbook of Fraud Deterrence Harry Cendrowski,Louis W. Petro,James P. Martin,Adam A. Wadecki,2007-01-29 The Handbook of Fraud Deterrence encompasses

the applicable professional standards and common applications for forensic accounting fraud deterrence and fraud investigation services It is the first book that explains fraud deterrence through internal control improvement within the structure of forensic accounting procedures

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