

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

12 Business Intelligence Systems Database Systems Journal

Christian Drosten



12 Business Intelligence Systems Database Systems Journal:

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

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

Web Services: Concepts, Methodologies, Tools, and Applications

Management Association, Information Resources,2018-12-07 Web service technologies are redefining the way that large and small companies are doing business and exchanging information Due to the critical need for furthering automation engagement and efficiency systems and workflows are becoming increasingly more web based Web Services Concepts Methodologies Tools and Applications is an innovative reference source that examines relevant theoretical frameworks current practice guidelines industry standards and standardization and the latest empirical research findings in web services Highlighting a range of topics such as cloud computing quality of service and semantic web this multi volume book is designed for computer engineers IT specialists software designers professionals researchers and upper level students interested in web services architecture frameworks and security

Business Intelligence and Human Resource Management Deepmala Singh,Anurag Singh,Amizan Omar,SB Goyal,2022-08-31 Business Intelligence BI is a solution to modern business problems This book discusses the relationship between BI and Human Resource Management HRM In addition it discusses how BI can be used as a strategic decision making tool for the sustainable growth of an organization or business BI helps organizations generate interactive reports with clear and reliable data for making numerous business decisions This book covers topics spanning the important areas of BI in the context of HRM It gives an overview of the aspects tools and techniques of BI and how it can assist HRM in creating a successful future for organizations Some of the tools and techniques discussed in the book are analysis data preparation BI testing implementation and optimization on GR and management disciplines It will include a chapter on text mining as well as a section of case studies for practical use This book will be useful for business professionals including but not limited to HR professionals and budding business students

Improving Health Management through Clinical Decision Support Systems Moon, Jane D.,Galea, Mary P.,2015-09-25 In an effort to combat human error in the medical field medical professionals continue to seek the best practices and technology applications for the diagnosis treatment and overall care of their patients Improving Health Management through Clinical Decision Support Systems brings together a series of chapters focused on the technology funding and future plans for improved organization and decision making through medical informatics Featuring timely research based chapters on topics including but not limited to data management information security and the benefits of technology based medicine this publication is an essential reference source for clinicians scientists health economists policymakers academicians researchers advanced level students and government officials interested in health information technology

Business Statistics Ken Black,2019-12-24 Business Statistics continues the tradition of presenting and explaining the wonders of

business statistics through a clear complete student friendly pedagogy In this 10th edition author Ken Black uses current real world data to equip students with the business analytics techniques and quantitative decision making skills required to make smart decisions in today s workplace

Management Information Systems Raymond McLeod,George P. Schell,2004 Management Information Systems is recognized for logical organization and clear descriptions Focusing on the role of managers within an organization the volume emphasizes the development of computer based Information Systems to support an organization s objectives and strategic plans Focusing on the Systems Concepts the Systems Approach is implemented throughout the text The volume covers essential concepts such as using information technology to engage in electronic commerce and information resources such as database management systems information security ethical implications of information technology and decision support systems with projects to challenge users at all levels of competence For those involved in Management Information Systems

Journal of Information Science ,1993 Principles practice *Information Systems* Steven R. Gordon,Judith R. Gordon,2004 Written from the manager s perspective this new Third Edition prepares readers to improve the management of information using the latest information systems and technologies The book shows how to analyze a situation evaluate existing systems for managing information design the features of new systems and consider the issues associated with implementing them

IBM Systems Journal International Business Machines Corporation,1994

Information Technology for Management Efraim Turban,2006 Taking a practical managerial oriented approach this text stresses how information technology provides solutions to organisational problems and challenges and emphasises the innovative use of information technology

Earth and Space Science Information Systems Zygrelbaum,1998 The ISY Conference was organized to promote and enhance international scientific communication and co operation for the collection processing archiving distribution and analysis of earth and space science data These are the proceedings of this conference

Business Intelligence Efraim Turban,2008 For a course in Business Intelligence or as a supplement for Introduction to MIS Business Strategy or MBA Technology Management As Business Intelligence BI evolves from an executive support tool to the primary system implemented in almost all medium and large companies this is the only book that gives students the BI foundation needed to excel as a manager and decision maker in today s new world

Decision Support Systems and Electronic Commerce ,2003

Documentation Abstracts ,1999

Computer Publishers & Publications ,1984

DOLAP ... ,2005

Current Index to Journals in Education ,1990

Encyclopedia of data warehousing and mining John Wang,2008

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