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## KEY=DATA - WOOD KAISER

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### INTELLIGENT ENVIRONMENTAL DATA MONITORING FOR POLLUTION MANAGEMENT

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*Academic Press* **Intelligent Environmental Data Monitoring for Pollution Management** discusses evolving novel intelligent algorithms and their applications in the area of environmental data-centric systems guided by batch process-oriented data. Thus, the book ushers in a new era as far as environmental pollution management is concerned. It reviews the fundamental concepts of gathering, processing and analyzing data from batch processes, followed by a review of intelligent tools and techniques which can be used in this direction. In addition, it discusses novel intelligent algorithms for effective environmental pollution data management that are on par with standards laid down by the World Health Organization. Introduces novel intelligent techniques needed to address environmental pollution for the well-being of the global environment Offers perspectives on the design, development and commissioning of intelligent applications Provides reviews on the latest intelligent technologies and algorithms related to state-of-the-art methodologies surrounding the monitoring and mitigation of environmental pollution Puts forth insights on future generation intelligent pollution monitoring techniques

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## TAPPING INTO UNSTRUCTURED DATA

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### INTEGRATING UNSTRUCTURED DATA AND TEXTUAL ANALYTICS INTO BUSINESS INTELLIGENCE

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*Pearson Education* **The Definitive Guide to Unstructured Data Management and Analysis--From the World's Leading Information Management Expert** A wealth of invaluable information exists in unstructured textual form, but organizations have found it difficult or impossible to access and utilize it. This is changing rapidly: new approaches finally make it possible to glean useful knowledge from virtually any collection of unstructured data. William H. Inmon--the father of data warehousing--and Anthony Nesavich introduce the next data revolution: unstructured data management. Inmon and Nesavich cover all you need to know to make unstructured data work for your organization. You'll learn how to bring it into your existing structured data environment, leverage existing analytical infrastructure, and implement textual analytic processing technologies to solve new problems and uncover new opportunities. Inmon and Nesavich introduce breakthrough techniques covered in no other book--including the powerful role of textual integration, new ways to integrate textual data into data warehouses, and new SQL techniques for reading and analyzing text. They also present five chapter-length, real-world case studies--demonstrating unstructured data at work in medical research, insurance, chemical manufacturing, contracting, and beyond. This book will be indispensable to every business and technical professional trying to make sense of a large body of unstructured text: managers, database designers, data modelers, DBAs, researchers, and end users alike. Coverage includes What unstructured data is, and how it differs from structured data First generation technology for handling unstructured data, from search engines to ECM--and its limitations Integrating text so it can be analyzed with a common, colloquial vocabulary: integration engines, ontologies, glossaries, and taxonomies Processing semistructured data: uncovering patterns, words, identifiers, and conflicts Novel processing opportunities that arise when text is freed from context Architecture and unstructured data: Data Warehousing 2.0 Building unstructured relational databases and linking them to structured data Visualizations and Self-Organizing Maps (SOMs), including Compudigm and Raptor solutions Capturing knowledge from spreadsheet data and email Implementing and managing metadata: data models, data quality, and more

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## **ADVANCES IN PRODUCTION MANAGEMENT SYSTEMS. ARTIFICIAL INTELLIGENCE FOR SUSTAINABLE AND RESILIENT PRODUCTION SYSTEMS**

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### **IFIP WG 5.7 INTERNATIONAL CONFERENCE, APMS 2021, NANTES, FRANCE, SEPTEMBER 5-9, 2021, PROCEEDINGS, PART IV**

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*Springer Nature* The five-volume set IFIP AICT 630, 631, 632, 633, and 634 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2021, held in Nantes, France, in September 2021.\* The 378 papers presented were carefully reviewed and selected from 529 submissions. They discuss artificial intelligence techniques, decision aid and new and renewed paradigms for sustainable and resilient production systems at four-wall factory and value chain levels. The papers are organized in the following topical sections: Part I: artificial intelligence based optimization techniques for demand-driven manufacturing; hybrid approaches for production planning and scheduling; intelligent systems for manufacturing planning and control in the industry 4.0; learning and robust decision support systems for agile manufacturing environments; low-code and model-driven engineering for production system; meta-heuristics and optimization techniques for energy-oriented manufacturing systems; metaheuristics for production systems; modern analytics and new AI-based smart techniques for replenishment and production planning under uncertainty; system identification for manufacturing control applications; and the future of lean thinking and practice Part II: digital transformation of SME manufacturers: the crucial role of standard; digital transformations towards supply chain resiliency; engineering of smart-product-service-systems of the future; lean and Six Sigma in services healthcare; new trends and challenges in reconfigurable, flexible or agile production system; production management in food supply chains; and sustainability in production planning and lot-sizing Part III: autonomous robots in delivery logistics; digital transformation approaches in production management; finance-driven supply chain; gastronomic service system design; modern scheduling and applications in industry 4.0; recent advances in sustainable manufacturing; regular session: green production and circularity concepts; regular session: improvement models and methods for green and innovative systems; regular session: supply chain and routing management; regular session: robotics and human aspects; regular session: classification and data management methods; smart supply chain and production in society 5.0 era; and supply chain risk management under coronavirus Part IV: AI for resilience in global supply chain networks in the context of pandemic disruptions; blockchain in the operations and supply chain management; data-based services as key enablers for smart products, manufacturing and assembly; data-driven methods for supply chain optimization; digital twins based on systems engineering and semantic modeling; digital twins in companies first developments and future challenges; human-centered artificial intelligence in smart manufacturing for the operator 4.0; operations management in engineer-to-order manufacturing; product and asset life cycle management for smart and sustainable manufacturing systems; robotics technologies for control, smart manufacturing and logistics; serious games analytics: improving games and learning support; smart and sustainable production and supply chains; smart methods and techniques for sustainable supply chain management; the new digital lean manufacturing paradigm; and the role of emerging technologies in disaster relief operations: lessons from COVID-19 Part V: data-driven platforms and applications in production and logistics: digital twins and AI for sustainability; regular session: new approaches for routing problem solving; regular session: improvement of design and operation of manufacturing systems; regular session: crossdock and transportation issues; regular session: maintenance improvement and lifecycle management; regular session: additive manufacturing and mass customization; regular session: frameworks and conceptual modelling for systems and services efficiency; regular session: optimization of production and transportation systems; regular session: optimization of supply chain agility and reconfigurability; regular session: advanced modelling approaches; regular session: simulation and optimization of systems performances; regular session: AI-based approaches for quality and performance improvement of production systems; and regular session: risk and performance management of supply chains \*The conference was held online.

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## **COMPUTATIONAL INTELLIGENCE FOR MISSING DATA IMPUTATION, ESTIMATION, AND MANAGEMENT: KNOWLEDGE OPTIMIZATION TECHNIQUES**

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### **KNOWLEDGE OPTIMIZATION TECHNIQUES**

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*IGI Global* "This book is for those who use data analysis to build decision support systems, particularly engineers, scientists and statisticians"--Provided by publisher.

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## **KNOWLEDGE MANAGEMENT, BUSINESS INTELLIGENCE, AND CONTENT MANAGEMENT**

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### **THE IT PRACTITIONER'S GUIDE**

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*CRC Press* Knowledge management (KM) is the identification and analysis of available and required knowledge, and the subsequent planning and control of actions, to develop "knowledge assets" that enable businesses to generate profits and improve their competitive positions. This volume provides the framework for the strategic use of the information

intelligence processes - business intelligence, content management, and knowledge management. In nine detailed chapters, the author explains every facet of these three subjects, enabling you to understand these sophisticated business concepts within the framework of information technology. **Knowledge Management, Business Intelligence, and Content Management: The IT Practitioner's Guide** discusses creation, protection, development, sharing, and management of information and intellectual assets through the use of business intelligence and other knowledge sharing and analytical techniques. About the Author Jessica Keyes is president of New Art Technologies, Inc., a high-technology and management consultancy, and is also founding partner of Manhattan Technology Group. Often a keynote speaker on the topics of competitive strategy, productivity, and quality, she is a founding board of directors member of the New York Software Industry Association, and has recently completed a 2-year term on the Mayor of New York City's Small Business Advisory Council. A noted columnist and correspondent, Keyes is the author of 19 books, including Auerbach Publications' *Software Engineering Handbook*, *Software Configuration Management*, and *Implementing the IT Balanced Scorecard*.

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### **KNOWLEDGE MANAGEMENT IN THE INTELLIGENCE ENTERPRISE**

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*Artech House* If you are responsible for the management of an intelligence enterprise operation and its timely and accurate delivery of reliable intelligence to key decision-makers, this book is must reading. It is the first easy-to-understand, system-level book that specifically applies knowledge management principles, practices and technologies to the intelligence domain. The book describes the essential principles of intelligence, from collection, processing and analysis, to dissemination for both national intelligence and business applications.

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### **INTELLIGENT DATA ANALYTICS FOR POWER AND ENERGY SYSTEMS**

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*Springer Nature* This book brings together state-of-the-art advances in intelligent data analytics as driver of the future evolution of PaE systems. In the modern power and energy (PaE) domain, the increasing penetration of renewable energy sources (RES) and the consequent empowerment of consumers as a central and active solution to deal with the generation and development variability are driving the PaE system towards a historic paradigm shift. The small-scale, diversity, and especially the number of new players involved in the PaE system potentiate a significant growth of generated data. Moreover, advances in communication (between IoT devices and M2M: machine to machine, man to machine, etc.) and digitalization hugely increased the volume of data that results from PaE components, installations, and systems operation. This data is becoming more and more important for PaE systems operation, maintenance, planning, and scheduling with relevant impact on all involved entities, from producers, consumer,s and aggregators to market and system operators. However, although the PaE community is fully aware of the intrinsic value of those data, the methods to deal with it still necessitate substantial enhancements, development and research. Intelligent data analytics is thereby playing a fundamental role in this domain, by enabling stakeholders to expand their decision-making method and achieve the awareness on the PaE environment. The editors also included demonstrated codes for presented problems for better understanding for beginners.

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### **ADVANCES IN PRODUCTION MANAGEMENT SYSTEMS. PRODUCTION MANAGEMENT FOR DATA-DRIVEN, INTELLIGENT, COLLABORATIVE, AND SUSTAINABLE MANUFACTURING**

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#### **IFIP WG 5.7 INTERNATIONAL CONFERENCE, APMS 2018, SEOUL, KOREA, AUGUST 26-30, 2018, PROCEEDINGS, PART I**

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*Springer* The two-volume set IFIP AICT 535 and 536 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2018, held in Seoul, South Korea, in August 2018. The 129 revised full papers presented were carefully reviewed and selected from 149 submissions. They are organized in the following topical sections: lean and green manufacturing; operations management in engineer-to-order manufacturing; product-service systems, customer-driven innovation and value co-creation; collaborative networks; smart production for mass customization; global supply chain management; knowledge based production planning and control; knowledge based engineering; intelligent diagnostics and maintenance solutions for smart manufacturing; service engineering based on smart manufacturing capabilities; smart city interoperability and cross-platform implementation; manufacturing performance management in smart factories; industry 4.0 - digital twin; industry 4.0 - smart factory; and industry 4.0 - collaborative cyber-physical production and human systems.

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### **INTELLIGENT QUALITY OF SERVICE TECHNOLOGIES AND NETWORK MANAGEMENT: MODELS FOR ENHANCING COMMUNICATION**

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## **MODELS FOR ENHANCING COMMUNICATION**

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*IGI Global* "This book "quality of service" in organizations, offering fundamental knowledge on the subject, describing the significance of network management and the integration of knowledge to demonstrate how network management is related to QoS in real applications"--Provided by publisher.

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## **MODERN MANAGEMENT BASED ON BIG DATA II AND MACHINE LEARNING AND INTELLIGENT SYSTEMS III**

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*IOS Press*

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## **ARTIFICIAL INTELLIGENCE AND INNOVATION MANAGEMENT**

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*World Scientific* **Artificial Intelligence and Innovation Management** contributes to the ongoing debate among innovation scholars and practitioners focusing on the potential impact of Artificial Intelligence (AI) on the ways companies and organizations do business, operate and innovate. It considers AI as a source of innovation both in terms of innovation within the field of AI itself (AI innovation) and in terms of how it enables or disrupts innovation in other fields (AI-driven innovation). The book's content is driven by several important conclusions: It is therefore both necessary and timely to explore the different aspects of the relationship between AI and IM. The contributors to this book include both scholars and practitioners from multiple countries and different types of institutions. They were selected based on their ability to provide a relevant distinctive perspective on the relationship between AI and IM; the degree of their professional engagement with the field; their ability to contribute to the thematic and contextual diversity of the contributions; and their ability to provide actionable insights for both innovation scholars and practitioners. Helena Blackbright (Mälardalen University, Sweden) and Stoyan Tanev (Carleton University, Canada) are chairing the Special Interest Group on AI and IM at the International Society for Professional Innovation Management (<https://www.ispim-innovation.com/>).

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## **ARTIFICIAL INTELLIGENCE AND BIG DATA FOR FINANCIAL RISK MANAGEMENT**

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### **INTELLIGENT APPLICATIONS**

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*Taylor & Francis* **This book** presents a collection of high-quality contributions on the state-of-the-art in Artificial Intelligence and Big Data analysis as it relates to financial risk management applications. It brings together, in one place, the latest thinking on an emerging topic and includes principles, reviews, examples, and research directions. The book presents numerous specific use-cases throughout, showing practical applications of the concepts discussed. It looks at technologies such as eye movement analysis, data mining or mobile apps and examines how these technologies are applied by financial institutions, and how this affects both the institutions and the market. This work introduces students and aspiring practitioners to the subject of risk management in a structured manner. It is primarily aimed at researchers and students in finance and intelligent big data applications, such as intelligent information systems, smart economics and finance applications, and the internet of things in a marketing environment.

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## **ORGANIZATIONAL APPLICATIONS OF BUSINESS INTELLIGENCE MANAGEMENT: EMERGING TRENDS**

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### **EMERGING TRENDS**

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*IGI Global* "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.

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## **BIG DATA ANALYTICS FOR INTELLIGENT HEALTHCARE MANAGEMENT**

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*Academic Press* **Big Data Analytics for Intelligent Healthcare Management** covers both the theory and application of hardware platforms and architectures, the development of software methods, techniques and tools, applications and governance, and adoption strategies for the use of big data in healthcare and clinical research. The book provides the latest research findings on the use of big data analytics with statistical and machine learning techniques that analyze huge amounts of real-time healthcare data. Examines the methodology and requirements for development of big data architecture, big data modeling, big data as a service, big data analytics, and more. Discusses big data applications for intelligent healthcare management, such as revenue management and pricing, predictive analytics/forecasting, big data integration for medical data, algorithms and techniques, etc. Covers the development of big data tools, such as data, web and text mining, data mining, optimization, machine learning, cloud in big data with Hadoop, big data in IoT, and

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more

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## **ARTIFICIAL INTELLIGENCE FOR KNOWLEDGE MANAGEMENT, ENERGY, AND SUSTAINABILITY**

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**9TH IFIP WG 12.6 AND 1ST IFIP WG 12.11 INTERNATIONAL WORKSHOP, AI4KMES 2021, HELD AT IJCAI 2021, MONTREAL, QC, CANADA, AUGUST 19-20, 2021, REVISED SELECTED PAPERS**

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*Springer Nature*

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## **INTELLIGENT ROBOTICS AND APPLICATIONS**

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**15TH INTERNATIONAL CONFERENCE, ICIRA 2022, HARBIN, CHINA, AUGUST 1-3, 2022, PROCEEDINGS, PART I**

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*Springer Nature* The 4-volume set LNAI 13455 - 13458 constitutes the proceedings of the 15th International Conference on Intelligent Robotics and Applications, ICIRA 2022, which took place in Harbin China, during August 2022. The 284 papers included in these proceedings were carefully reviewed and selected from 442 submissions. They were organized in topical sections as follows: Robotics, Mechatronics, Applications, Robotic Machining, Medical Engineering, Soft and Hybrid Robots, Human-robot Collaboration, Machine Intelligence, and Human Robot Interaction.

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## **INTELLIGENCE, SUSTAINABILITY, AND STRATEGIC ISSUES IN MANAGEMENT**

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### **CURRENT TOPICS IN MANAGEMENT**

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*Routledge* Social intelligence is defined as the ability to be aware of relevant social situational contexts; to deal with the contexts or challenges effectively; to understand others' concerns, feelings, and emotional states; and to interact appropriately in social situations and build and maintain positive relationships with others. Intelligence, Sustainability, and Strategic Issues in Management analytically discusses this concept within administrative and entrepreneurial managerial business environments. The volume opens with a study of academic department chairs' social intelligence and faculty members' satisfaction with annual evaluation of teaching and research at a US university. The seven other articles cover a range of topics, including a neurocognitive model of entrepreneurial opportunity, ownership dilution, sustainability in inventory management, the role of status in imitative behaviour, the negative impacts of embeddedness, product quality failures in international sourcing, and employers' use of social media in employment decisions. In addition to the articles, the volume also features a case study, "From Social Entrepreneur to Social Enterprise," a research note, "Reducing Job Burnout through Effective Conflict Management Strategy," five book reviews, and a list of books received.

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## **DECISION SUPPORT SYSTEMS VI - ADDRESSING SUSTAINABILITY AND SOCIETAL CHALLENGES**

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**2ND INTERNATIONAL CONFERENCE, ICDSST 2016, PLYMOUTH, UK, MAY 23-25, 2016, PROCEEDINGS**

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*Springer* This book constitutes the refereed proceedings of the Second International Conference on Decision Support Systems Technology, ICDSST 2016, held in Plymouth, UK, May 23-25. The theme of the event was "Decision Support Systems Addressing Sustainability & Societal Challenges", organized by the EURO (Association of European Operational Research Societies) working group of Decision Support Systems (EWG-DSS). The 15 full papers presented in this book were selected out of 51 submissions after being carefully reviewed by internationally experts from the ICDSST 2016 Program Committee and external invited reviewers. The selected papers are representative of current and relevant research activities in various areas of decision support systems, such as sustainability and societal challenges; risk management and project portfolio management; business intelligence and knowledge management; and technologies to improve system usability.

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## **DATA-DRIVEN TRAVEL MARKETING**

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## THE IMPORTANCE OF BUSINESS INTELLIGENCE FOR AFFILIATE MARKETING IN THE TRAVEL INDUSTRY

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*LIT Verlag Münster* A dynamic business environment, various digital marketing tools and the power of data are main challenges travel companies have to face. Up-to-dateness and flexibility are crucial for increasing competitiveness and surviving in the jungle of travel firms. But how can these challenges be managed? With a holistic view, business intelligence enhances data-driven decision-making, addresses challenges and brings firms to the next level. By combining data technologies with affiliate marketing, this book develops a data-driven concept for enhanced decision-making in affiliate travel marketing.

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## THE SEMANTIC WEB FOR KNOWLEDGE AND DATA MANAGEMENT

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### TECHNOLOGIES AND PRACTICES

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*IGI Global* Provides a single record of technologies and practices of the Semantic approach to the management, organization, interpretation, retrieval, and use of Web-based data.

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## ARTIFICIAL INTELLIGENCE AND BUSINESS MANAGEMENT

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*Intellect Books* After introducing the concept of artificial intelligence (AI), the authors of this text discuss the scope and limitations of AI technology in the various subfields that are expected to be relevant to business management systems - natural language processing, voice processing, image processing, and intelligent robots.

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## INFORMATION MANAGEMENT AND MACHINE INTELLIGENCE

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### PROCEEDINGS OF ICIMMI 2019

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*Springer Nature* This book features selected papers presented at the International Conference on Information Management and Machine Intelligence (ICIMMI 2019), held at the Poornima Institute of Engineering & Technology, Jaipur, Rajasthan, India, on December 14-15, 2019. It covers a range of topics, including data analytics; AI; machine and deep learning; information management, security, processing techniques and interpretation; applications of artificial intelligence in soft computing and pattern recognition; cloud-based applications for machine learning; application of IoT in power distribution systems; as well as wireless sensor networks and adaptive wireless communication.

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## PROCEEDINGS OF THE SECOND INTERNATIONAL CONFERENCE ON INFORMATION MANAGEMENT AND MACHINE INTELLIGENCE

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### ICIMMI 2020

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*Springer Nature* This book features selected papers presented at Second International Conference on International Conference on Information Management & Machine Intelligence (ICIMMI 2020) held at Poornima Institute of Engineering & Technology, Jaipur, Rajasthan, India during 24 - 25 July 2020. It covers a range of topics, including data analytics; AI; machine and deep learning; information management, security, processing techniques and interpretation; applications of artificial intelligence in soft computing and pattern recognition; cloud-based applications for machine learning; application of IoT in power distribution systems; as well as wireless sensor networks and adaptive wireless communication.

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## ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN BUSINESS MANAGEMENT

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### CONCEPTS, CHALLENGES, AND CASE STUDIES

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*CRC Press* The focus of this book is to introduce Artificial Intelligence (AI) and Machine Learning (ML) technologies into the context of Business Management. The book gives insights into the implementation and impact of AI and ML to business leaders, managers, technology developers, and implementers. With the maturing use of AI or ML in the field of business intelligence, this book examines several projects with innovative uses of AI beyond data organization and access. It follows the Predictive Modeling Toolkit for providing new insight on how to use improved AI tools in the field of business. It explores cultural heritage values and risk assessments for mitigation and conservation and discusses on-shore and off-shore technological capabilities with spatial tools for addressing marketing and retail strategies, insurance and healthcare systems. Taking a multidisciplinary approach for using AI,

this book provides a single comprehensive reference resource for undergraduate, graduate, business professionals, and related disciplines.

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## **ARTIFICIAL INTELLIGENCE FOR KNOWLEDGE MANAGEMENT**

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### **6TH IFIP WG 12.6 INTERNATIONAL WORKSHOP, AI4KM 2018, HELD AT IJCAI 2018, STOCKHOLM, SWEDEN, JULY 15, 2018, REVISED AND EXTENDED SELECTED PAPERS**

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*Springer Nature* This book features a selection of extended papers presented at the 6th IFIP WG 12.6 International Workshop on Artificial Intelligence for Knowledge Management, AI4KM 2018, held in Stockholm, Sweden, in July 2018, in the framework of the International Joint Conference on Artificial Intelligence, IJCAI 2018. The 11 revised and extended papers were carefully reviewed and selected for inclusion in this volume. They present new research and innovative aspects in the field of knowledge management such as machine learning, knowledge models, KM and Web, knowledge capturing and learning, and KM and AI intersections.

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## **APPLYING BUSINESS INTELLIGENCE INITIATIVES IN HEALTHCARE AND ORGANIZATIONAL SETTINGS**

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*IGI Global* 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.

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## **BUSINESS INTELLIGENCE AND PERFORMANCE MANAGEMENT**

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### **THEORY, SYSTEMS AND INDUSTRIAL APPLICATIONS**

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*Springer Science & Business Media* During the 21st century business environments have become more complex and dynamic than ever before. Companies operate in a world of change influenced by globalisation, volatile markets, legal changes and technical progress. As a result, they have to handle growing volumes of data and therefore require fast storage, reliable data access, intelligent retrieval of information and automated decision-making mechanisms, all provided at the highest level of service quality. Successful enterprises are aware of these challenges and efficiently respond to the dynamic environment in which their business operates. Business Intelligence (BI) and Performance Management (PM) offer solutions to these challenges and provide techniques to enable effective business change. The important aspects of both topics are discussed within this state-of-the-art volume. It covers the strategic support, business applications, methodologies and technologies from the field, and explores the benefits, issues and challenges of each. Issues are analysed from many different perspectives, ranging from strategic management to data technologies, and the different subjects are complimented and illustrated by numerous examples of industrial applications. Contributions are authored by leading academics and practitioners representing various universities, research centres and companies worldwide. Their experience covers multiple disciplines and industries, including finance, construction, logistics, and public services, amongst others. *Business Intelligence and Performance Management* is a valuable source of reference for graduates approaching MSc or PhD programs and for professionals in industry researching in the fields of BI and PM for industrial application.

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## **MANAGERIAL PERSPECTIVES ON INTELLIGENT BIG DATA ANALYTICS**

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*IGI Global* Big data, analytics, and artificial intelligence are revolutionizing work, management, and lifestyles and are becoming disruptive technologies for healthcare, e-commerce, and web services. However, many fundamental, technological, and managerial issues for developing and applying intelligent big data analytics in these fields have yet to be addressed. *Managerial Perspectives on Intelligent Big Data Analytics* is a collection of innovative research that discusses the integration and application of artificial intelligence, business intelligence, digital transformation, and intelligent big data analytics from a perspective of computing, service, and management. While highlighting topics including e-commerce, machine learning, and fuzzy logic, this book is ideally designed for students, government officials, data scientists, managers, consultants, analysts, IT specialists, academicians, researchers, and industry professionals in fields that include big data, artificial intelligence, computing, and commerce.

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## ARTIFICIAL NEURAL NETWORKS: FORMAL MODELS AND THEIR APPLICATIONS - ICANN 2005

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### 15TH INTERNATIONAL CONFERENCE, WARSAW, POLAND, SEPTEMBER 11-15, 2005, PROCEEDINGS, PART II

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*Springer* This volume is the first part of the two-volume proceedings of the International Conference on Artificial Neural Networks (ICANN 2005), held on September 11-15, 2005 in Warsaw, Poland, with several accompanying workshops held on September 15, 2005 at the Nicolaus Copernicus University, Toru, Poland. The ICANN conference is an annual meeting organized by the European Neural Network Society in cooperation with the International Neural Network Society, the Japanese Neural Network Society, and the IEEE Computational Intelligence Society. It is the premier European event covering all topics concerned with neural networks and related areas. The ICANN series of conferences was initiated in 1991 and soon became the major European gathering for experts in those fields. In 2005 the ICANN conference was organized by the Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland, and the Nicolaus Copernicus University, Toru, Poland. From over 600 papers submitted to the regular sessions and some 10 special conference sessions, the International Program Committee selected - after a thorough peer-review process - about 270 papers for publication. The large number of papers accepted is certainly a proof of the vitality and attractiveness of the field of artificial neural networks, but it also shows a strong interest in the ICANN conferences.

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## ARTIFICIAL INTELLIGENCE FOR INFORMATION MANAGEMENT: A HEALTHCARE PERSPECTIVE

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*Springer Nature* This book discusses the advancements in artificial intelligent techniques used in the well-being of human healthcare. It details the techniques used in collection, storage and analysis of data and their usage in different healthcare solutions. It also discusses the techniques of predictive analysis in early diagnosis of critical diseases. The edited book is divided into four parts - part A discusses introduction to artificial intelligence and machine learning in healthcare; part B highlights different analytical techniques used in healthcare; part C provides various security and privacy mechanisms used in healthcare; and finally, part D exemplifies different tools used in visualization and data analytics.

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## DATA MINING AND BIG DATA

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### FIRST INTERNATIONAL CONFERENCE, DMBD 2016, BALI, INDONESIA, JUNE 25-30, 2016. PROCEEDINGS

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*Springer* The LNCS volume LNCS 9714 constitutes the refereed proceedings of the International Conference on Data Mining and Big Data, DMBD 2016, held in Bali, Indonesia, in June 2016. The 57 papers presented in this volume were carefully reviewed and selected from 115 submissions. The theme of DMBD 2016 is "Serving Life with Data Science". Data mining refers to the activity of going through big data sets to look for relevant or pertinent information. The papers are organized in 10 cohesive sections covering all major topics of the research and development of data mining and big data and one Workshop on Computational Aspects of Pattern Recognition and Computer Vision.

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## ARTIFICIAL INTELLIGENCE FOR ASSET MANAGEMENT AND INVESTMENT

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### A STRATEGIC PERSPECTIVE

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*John Wiley & Sons* Make AI technology the backbone of your organization to compete in the Fintech era The rise of artificial intelligence is nothing short of a technological revolution. AI is poised to completely transform asset management and investment banking, yet its current application within the financial sector is limited and fragmented. Existing AI implementations tend to solve very narrow business issues, rather than serving as a powerful tech framework for next-generation finance. Artificial Intelligence for Asset Management and Investment provides a strategic viewpoint on how AI can be comprehensively integrated within investment finance, leading to evolved performance in compliance, management, customer service, and beyond. No other book on the market takes such a wide-ranging approach to using AI in asset management. With this guide, you'll be able to build an asset management firm from the ground up—or revolutionize your existing firm—using artificial intelligence as the cornerstone and foundation. This is a must, because AI is quickly growing to be the single competitive factor for financial firms. With better AI comes better results. If you aren't integrating AI in the strategic DNA of your firm, you're at risk of being left behind. See how artificial intelligence can form the cornerstone of an integrated, strategic asset management framework Learn how to build AI into your organization to remain competitive in the world of Fintech Go beyond siloed AI implementations to reap even greater benefits Understand and overcome the governance and leadership challenges inherent in AI strategy Until now, it has been prohibitively difficult to map the high-tech world of AI onto complex and ever-changing financial markets. Artificial Intelligence for Asset Management and Investment makes this difficulty a thing of the past, providing you with a professional and accessible framework for setting up and running artificial

intelligence in your financial operations.

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## **CONCEPTUAL MODELING: FOUNDATIONS AND APPLICATIONS**

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### **ESSAYS IN HONOR OF JOHN MYLOPOULOS**

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*Springer Science & Business Media* This Festschrift volume, published in honor of John Mylopoulos on the occasion of his retirement from the University of Toronto, contains 25 high-quality papers, written by leading scientists in the field of conceptual modeling. The volume has been divided into six sections. The first section focuses on the foundations of conceptual modeling and contains material on ontologies and knowledge representation. The four sections on software and requirements engineering, information systems, information integration, and web and services, represent the chief current application domains of conceptual modeling. Finally, the section on implementations concentrates on projects that build tools to support conceptual modeling. With its in-depth coverage of diverse topics, this book could be a useful companion to a course on conceptual modeling.

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## **DECISION INTELLIGENCE ANALYTICS AND THE IMPLEMENTATION OF STRATEGIC BUSINESS MANAGEMENT**

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*Springer Nature*

### **BUSINESS INTELLIGENCE GUIDEBOOK**

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#### **FROM DATA INTEGRATION TO ANALYTICS**

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*Newnes* Between the high-level concepts of business intelligence and the nitty-gritty instructions for using vendors' tools lies the essential, yet poorly-understood layer of architecture, design and process. Without this knowledge, Big Data is belittled - projects flounder, are late and go over budget. Business Intelligence Guidebook: From Data Integration to Analytics shines a bright light on an often neglected topic, arming you with the knowledge you need to design rock-solid business intelligence and data integration processes. Practicing consultant and adjunct BI professor Rick Sherman takes the guesswork out of creating systems that are cost-effective, reusable and essential for transforming raw data into valuable information for business decision-makers. After reading this book, you will be able to design the overall architecture for functioning business intelligence systems with the supporting data warehousing and data-integration applications. You will have the information you need to get a project launched, developed, managed and delivered on time and on budget - turning the deluge of data into actionable information that fuels business knowledge. Finally, you'll give your career a boost by demonstrating an essential knowledge that puts corporate BI projects on a fast-track to success. Provides practical guidelines for building successful BI, DW and data integration solutions. Explains underlying BI, DW and data integration design, architecture and processes in clear, accessible language. Includes the complete project development lifecycle that can be applied at large enterprises as well as at small to medium-sized businesses Describes best practices and pragmatic approaches so readers can put them into action. Companion website includes templates and examples, further discussion of key topics, instructor materials, and references to trusted industry sources.

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## **ENCYCLOPEDIA OF ARTIFICIAL INTELLIGENCE**

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*IGI Global* "This book is a comprehensive and in-depth reference to the most recent developments in the field covering theoretical developments, techniques, technologies, among others"--Provided by publisher.

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## **SUSTAINING COMPETITIVE ADVANTAGE VIA BUSINESS INTELLIGENCE, KNOWLEDGE MANAGEMENT, AND SYSTEM DYNAMICS**

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*Emerald Group Publishing* Volume 22 includes two main chapters in both Part A and B. It appears in two parts because all chapters offer great depth in coverage of core issues senior executives must address for long-term survival of the firm: business intelligence, knowledge management, and understanding of the systems dynamics of interfirm behavior.

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## **SECURE KNOWLEDGE MANAGEMENT IN ARTIFICIAL INTELLIGENCE ERA**

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## **8TH INTERNATIONAL CONFERENCE, SKM 2019, GOA, INDIA, DECEMBER 21-22, 2019, PROCEEDINGS**

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*Springer Nature* This book constitutes the refereed proceedings of the 8th International Conference On Secure Knowledge Management In Artificial Intelligence Era, SKM 2019, held in Goa, India, in December 2019. The 12 full papers presented were carefully reviewed and selected from 34 submissions. They were organized according to the following topical sections: cyber security; security and artificial intelligence; access control models; and social networks.

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## **MANAGEMENT INTELLIGENT SYSTEMS**

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### **FIRST INTERNATIONAL SYMPOSIUM**

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*Springer Science & Business Media* The 2012 International Symposium on Management Intelligent Systems is believed to be the first international forum to present and discuss original, rigorous and significant contributions on Artificial Intelligence-based (AI) solutions—with a strong, practical logic and, preferably, with empirical applications—developed to aid the management of organizations in multiple areas, activities, processes and problem-solving; i.e., what we propose to be named as Management Intelligent Systems (MiS). The three-day event aimed to bring together researchers interested in this promising interdisciplinary field who came from areas as varied as management, marketing, and business in general, computer science, artificial intelligence, statistics, etc. This volume presents the proceedings of these activities in a collection of contributions with many original approaches. They address diverse Management and Business areas of application such as decision support, segmentation of markets, CRM, product design, service personalization, organizational design, e-commerce, credit scoring, workplace integration, innovation management, business database analysis, workflow management, location of stores, etc. A wide variety of AI techniques have been applied to these areas such as multi-objective optimization and evolutionary algorithms, classification algorithms, ant algorithms, fuzzy rule-based systems, intelligent agents, Web mining, neural networks, Bayesian models, data warehousing, rough sets, etc. The symposium was organized by the Soft Computing and Intelligent Information Systems Research Group (<http://sci2s.ugr.es>) of the University of Granada (Spain) and the Bioinformatics, Intelligent System and Educational Technology Research Group (<http://bisite.usal.es/>) of the University of Salamanca (Spain). The present edition is held in Salamanca (Spain) on July 11-13, 2012.

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## **HANDBOOK OF COMPUTATIONAL INTELLIGENCE IN MANUFACTURING AND PRODUCTION MANAGEMENT**

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*IGI Global* During the last two decades, computer and information technologies have forced great changes in the ways businesses manage operations in meeting the desired quality of products and services, customer demands, competition, and other challenges. The Handbook of Computational Intelligence in Manufacturing and Production Management focuses on new developments in computational intelligence in areas such as forecasting, scheduling, production planning, inventory control, and aggregate planning, among others. This comprehensive collection of research provides cutting-edge knowledge on information technology developments for both researchers and professionals in fields such as operations and production management, Web engineering, artificial intelligence, and information resources management.