

# big data analytics knowledge management

**big data analytics knowledge management** represents a transformative approach in the way organizations collect, process, and utilize vast amounts of information to enhance decision-making and operational efficiency. This integration leverages advanced analytical techniques to extract meaningful insights from complex datasets, enabling businesses to manage their knowledge assets more effectively. As enterprises face growing volumes of data generated from various sources, big data analytics provides the tools necessary to uncover patterns, trends, and correlations that traditional methods might overlook. Knowledge management, when combined with these analytical capabilities, ensures that valuable information is organized, accessible, and actionable across different organizational levels. This article explores the fundamental concepts of big data analytics knowledge management, its applications, benefits, challenges, and best practices for implementation. The discussion also highlights innovative technologies and strategies that drive successful knowledge-centric decision environments.

- Understanding Big Data Analytics in Knowledge Management
- Applications of Big Data Analytics in Knowledge Management
- Benefits of Integrating Big Data Analytics with Knowledge Management
- Challenges in Big Data Analytics Knowledge Management
- Best Practices for Implementing Big Data Analytics in Knowledge Management
- Future Trends in Big Data Analytics Knowledge Management

## Understanding Big Data Analytics in Knowledge Management

Big data analytics knowledge management involves the systematic use of large-scale data processing and analysis techniques to improve the way organizations create, share, and utilize knowledge. Big data refers to the enormous volume, velocity, and variety of data generated from sources such as social media, IoT devices, enterprise systems, and customer interactions. Analytics involves techniques like machine learning, predictive modeling, and data mining to identify valuable insights within these datasets. Knowledge management focuses on capturing, organizing, storing, and distributing knowledge assets to foster innovation and informed decision-making. Combining big data analytics with knowledge management creates a powerful synergy that

enhances organizational learning and strategic advantage.

## **Key Components of Big Data Analytics Knowledge Management**

Several critical components form the foundation of big data analytics knowledge management. These include data acquisition, processing infrastructure, analytical models, and knowledge repositories. Data acquisition involves collecting structured and unstructured data from diverse sources, ensuring quality and relevance. Processing infrastructure typically consists of cloud platforms, distributed computing frameworks like Hadoop or Spark, and databases capable of handling big data. Analytical models apply algorithms and statistical methods to extract insights. Finally, knowledge repositories store and manage the refined information, making it accessible for decision support and collaborative use.

## **Role of Data Governance and Quality**

Effective data governance and quality management are essential to the success of big data analytics knowledge management. Governance policies ensure compliance with regulatory requirements, data privacy, and security standards. High-quality data is critical for accurate analysis and reliable knowledge creation. Organizations must implement processes for data validation, cleansing, and monitoring to maintain integrity and trustworthiness. Without proper governance and quality controls, insights derived from big data analytics may be flawed or misleading, undermining knowledge management goals.

## **Applications of Big Data Analytics in Knowledge Management**

Big data analytics knowledge management finds applications across various industries and business functions, improving operational efficiency, customer engagement, and innovation. By leveraging data-driven insights, organizations can refine their strategies and optimize resource allocation.

## **Enhancing Decision-Making Processes**

One of the primary applications is improving decision-making by providing real-time, evidence-based insights. Big data analytics enables knowledge managers and executives to access comprehensive dashboards and predictive models that highlight trends and forecast outcomes. This empowers faster and more informed decisions, reducing uncertainty and risk.

## **Improving Customer Relationship Management (CRM)**

Integrating big data analytics with knowledge management enhances CRM by analyzing customer behavior, preferences, and feedback. This allows companies

to personalize interactions, anticipate customer needs, and tailor products or services accordingly. The resulting knowledge base supports sales, marketing, and support teams in delivering superior customer experiences.

## **Optimizing Operational Efficiency**

In sectors such as manufacturing and supply chain management, big data analytics knowledge management helps identify bottlenecks, predict maintenance needs, and streamline workflows. By analyzing sensor data, production logs, and external factors, organizations can reduce downtime and costs while improving productivity.

## **Facilitating Innovation and Research**

Research institutions and technology firms utilize big data analytics knowledge management to accelerate innovation. By mining large datasets for novel patterns and correlations, researchers can generate new hypotheses, validate theories, and share findings more effectively within knowledge communities.

## **Benefits of Integrating Big Data Analytics with Knowledge Management**

The integration of big data analytics with knowledge management delivers numerous advantages that promote competitive strength and organizational agility.

### **Enhanced Knowledge Discovery and Sharing**

Big data analytics uncovers hidden insights that enrich the organization's knowledge base. This enhanced discovery facilitates better knowledge sharing among employees, departments, and partners, fostering collaboration and collective intelligence.

### **Improved Strategic Planning**

Organizations can leverage predictive analytics and trend analysis to inform long-term strategies. Access to robust knowledge assets supported by big data ensures that strategic initiatives are grounded in comprehensive evidence and market realities.

### **Increased Operational Agility**

Real-time analytics enable organizations to respond swiftly to changing conditions. Knowledge management practices supported by up-to-date data allow teams to pivot operations and tactics efficiently, maintaining resilience in dynamic environments.

## **Cost Reduction and Resource Optimization**

By analyzing usage patterns and performance metrics, big data analytics knowledge management helps identify inefficiencies and optimize resource allocation. This leads to cost savings and better utilization of human and technological assets.

## **Challenges in Big Data Analytics Knowledge Management**

Despite its benefits, implementing big data analytics knowledge management presents several challenges that organizations must address to realize its full potential.

### **Data Privacy and Security Concerns**

Handling massive volumes of sensitive data raises significant privacy and security risks. Organizations must implement robust safeguards to protect data confidentiality and comply with regulations such as GDPR and HIPAA.

### **Integration Complexity**

Combining diverse data sources and analytical tools with existing knowledge management systems can be complex. Ensuring interoperability and seamless data flow requires careful planning and technical expertise.

### **Data Quality Issues**

Ensuring the accuracy, consistency, and completeness of big data is challenging due to its heterogeneous nature. Poor data quality can lead to erroneous insights and undermine knowledge management efforts.

### **Skill Gaps and Organizational Resistance**

The successful deployment of big data analytics knowledge management demands skilled data scientists, analysts, and knowledge managers. Additionally, cultural resistance to data-driven approaches may hinder adoption and collaboration.

## **Best Practices for Implementing Big Data Analytics in Knowledge Management**

To overcome challenges and maximize the value of big data analytics knowledge management, organizations should adopt best practices that promote efficiency and sustainability.

## **Establish Clear Objectives and Metrics**

Defining specific goals and key performance indicators (KPIs) ensures alignment between big data analytics initiatives and knowledge management objectives. This clarity facilitates focused efforts and measurable outcomes.

## **Invest in Scalable Technology Infrastructure**

Implementing scalable cloud-based platforms and flexible data architectures supports the growing volume and variety of data. This infrastructure enables rapid processing and storage to meet organizational demands.

## **Promote Cross-Functional Collaboration**

Encouraging collaboration between IT, data science, and business units enhances the integration of analytics with knowledge management. Shared understanding and communication foster innovation and effective knowledge sharing.

## **Focus on Data Governance and Compliance**

Developing comprehensive data governance frameworks ensures data security, privacy, and regulatory compliance. Regular audits and monitoring maintain data integrity and build stakeholder trust.

## **Provide Training and Change Management**

Investing in training programs develops the necessary skills among employees. Change management initiatives address cultural barriers and promote acceptance of data-driven knowledge management practices.

## **Examples of Best Practices**

- Implementing automated data quality checks to maintain accurate knowledge bases
- Utilizing machine learning algorithms to categorize and tag knowledge assets efficiently
- Creating centralized dashboards for real-time analytics and knowledge dissemination
- Establishing communities of practice to encourage knowledge exchange supported by analytical insights

# **Future Trends in Big Data Analytics Knowledge Management**

The evolution of technology and business landscapes continues to shape the future of big data analytics knowledge management. Emerging trends promise to enhance capabilities and broaden applications.

## **Artificial Intelligence and Advanced Machine Learning**

AI-driven analytics will enable more sophisticated knowledge extraction, including natural language processing and sentiment analysis. These advances will automate knowledge classification and provide personalized insights.

## **Edge Computing and Real-Time Analytics**

With the growth of IoT and mobile devices, processing data closer to its source through edge computing will facilitate faster analytics. This supports immediate knowledge updates and decision-making in time-sensitive environments.

## **Integration with Collaborative Platforms**

Seamless integration between big data analytics tools and collaboration software will enhance knowledge sharing and collective problem-solving. This interconnected ecosystem will improve organizational responsiveness.

## **Focus on Ethical Data Use and Transparency**

Increasing attention to ethical considerations and transparency in data use will influence governance models. Organizations will prioritize responsible analytics practices to maintain public trust and compliance.

## **Frequently Asked Questions**

### **What is the role of big data analytics in knowledge management?**

Big data analytics helps organizations process and analyze vast amounts of data to extract valuable insights, which enhances knowledge management by improving decision-making, innovation, and strategic planning.

### **How does big data analytics improve knowledge**

## **sharing within organizations?**

Big data analytics identifies patterns and trends in employee behavior and communication, enabling organizations to create more effective knowledge sharing platforms, personalize content delivery, and foster collaboration.

## **What are the key challenges of integrating big data analytics with knowledge management systems?**

Challenges include data privacy and security concerns, ensuring data quality and consistency, the complexity of integrating diverse data sources, and the need for skilled personnel to manage and analyze big data.

## **Which technologies are commonly used in big data analytics for knowledge management?**

Technologies such as Hadoop, Spark, machine learning algorithms, natural language processing (NLP), and cloud computing platforms are commonly used to analyze and manage big data in knowledge management systems.

## **How can big data analytics support decision-making in knowledge management?**

By analyzing historical and real-time data, big data analytics provides actionable insights and predictive analytics that help knowledge managers make informed decisions, optimize processes, and anticipate future trends.

## **What is the impact of big data analytics on organizational learning?**

Big data analytics accelerates organizational learning by uncovering hidden knowledge, identifying best practices, enabling continuous feedback loops, and supporting data-driven culture within the organization.

## **How does big data analytics enhance customer knowledge management?**

It enables organizations to analyze customer data from multiple sources to gain deeper insights into customer behavior, preferences, and needs, leading to improved customer service, personalized experiences, and targeted marketing strategies.

## **What skills are essential for professionals working at the intersection of big data analytics and**

## knowledge management?

Essential skills include data analysis, data visualization, knowledge management principles, machine learning, database management, and strong communication skills to translate data insights into actionable knowledge.

## How does real-time big data analytics influence knowledge management practices?

Real-time big data analytics allows organizations to capture and analyze data instantly, enabling dynamic knowledge updates, faster decision-making, immediate problem-solving, and enhanced responsiveness to market changes.

## Additional Resources

### 1. *Big Data Analytics: From Strategic Planning to Enterprise Integration*

This book offers a comprehensive guide to understanding and implementing big data analytics within organizations. It covers strategic planning, infrastructure setup, and integration of analytics tools into existing enterprise systems. Readers will gain insights into leveraging big data to drive business decisions and improve operational efficiency.

### 2. *Knowledge Management and Big Data: Concepts, Methodologies, Tools, and Applications*

A detailed exploration of how knowledge management principles intersect with big data technologies. The book provides methodologies and practical tools for capturing, storing, and analyzing vast amounts of organizational knowledge. It is ideal for professionals seeking to enhance decision-making processes through data-driven knowledge systems.

### 3. *Big Data Analytics for Knowledge Management*

Focusing on the role of big data analytics in enhancing knowledge management, this book discusses techniques to extract valuable insights from large datasets. It highlights case studies from various industries demonstrating successful knowledge sharing and management powered by analytics. The text also covers the challenges and best practices in implementing such systems.

### 4. *Data-Driven Knowledge Management: Leveraging Big Data Analytics for Competitive Advantage*

This book emphasizes the strategic use of big data analytics to improve knowledge management and gain a competitive edge. It discusses frameworks for integrating data analytics into knowledge workflows and decision-making processes. Readers will learn how to transform raw data into actionable knowledge assets.

### 5. *Big Data and Knowledge Management: A Roadmap for Organizations*

Offering a roadmap for organizations aiming to harness big data for effective knowledge management, this book blends theory with practical advice. It addresses the technical, organizational, and cultural challenges involved in

big data adoption. The book also includes insights into emerging trends and future directions in the field.

#### 6. *Advanced Analytics and Knowledge Management in the Big Data Era*

This text delves into advanced analytical techniques such as machine learning, data mining, and natural language processing within the context of knowledge management. It explores how these technologies can be leveraged to manage and utilize knowledge more effectively in the era of big data. Practical examples and case studies enrich the discussion.

#### 7. *Big Data Technologies for Knowledge Management*

A technical guide to the various big data technologies that support knowledge management initiatives. The book covers platforms such as Hadoop, Spark, and NoSQL databases, explaining their roles in storing, processing, and analyzing knowledge assets. It is suited for IT professionals and knowledge managers aiming to build robust big data infrastructures.

#### 8. *Knowledge Management in the Age of Big Data: Challenges and Opportunities*

This book examines the impact of big data on traditional knowledge management practices, highlighting both challenges and opportunities. It discusses data governance, privacy, and ethical considerations in managing knowledge derived from big data. The text also proposes strategies for adapting knowledge management frameworks to the evolving digital landscape.

#### 9. *Integrating Big Data Analytics and Knowledge Management for Business Innovation*

Focused on driving business innovation, this book showcases how the integration of big data analytics with knowledge management can foster creativity and improve organizational performance. It features case studies from various sectors illustrating successful integration strategies. Practical guidance helps readers implement innovative knowledge solutions powered by data analytics.

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**big data analytics knowledge management: Knowledge Management and Big Data Analytics for Strategic Decision Making** Abdalmuttaieb M.A. Musleh Al-Sartawi, 2021 This book addresses the multiple strands that feed into our understanding of sustainable big data and data analytics, as well as knowledge management--

**big data analytics knowledge management: Big Data Governance and Perspectives in Knowledge Management** Strydom, Sheryl Kruger, Strydom, Moses, 2018-11-16 The world is witnessing the growth of a global movement facilitated by technology and social media. Fueled by

information, this movement contains enormous potential to create more accountable, efficient, responsive, and effective governments and businesses, as well as spurring economic growth. *Big Data Governance and Perspectives in Knowledge Management* is a collection of innovative research on the methods and applications of applying robust processes around data, and aligning organizations and skillsets around those processes. Highlighting a range of topics including data analytics, prediction analysis, and software development, this book is ideally designed for academicians, researchers, information science professionals, software developers, computer engineers, graduate-level computer science students, policymakers, and managers seeking current research on the convergence of big data and information governance as two major trends in information management.

**big data analytics knowledge management:** *Analytics and Knowledge Management* Suliman Hawamdeh, Hsia-Ching Chang, 2018-08-06 The process of transforming data into actionable knowledge is a complex process that requires the use of powerful machines and advanced analytics technique. *Analytics and Knowledge Management* examines the role of analytics in knowledge management and the integration of big data theories, methods, and techniques into an organizational knowledge management framework. Its chapters written by researchers and professionals provide insight into theories, models, techniques, and applications with case studies examining the use of analytics in organizations. The process of transforming data into actionable knowledge is a complex process that requires the use of powerful machines and advanced analytics techniques. Analytics, on the other hand, is the examination, interpretation, and discovery of meaningful patterns, trends, and knowledge from data and textual information. It provides the basis for knowledge discovery and completes the cycle in which knowledge management and knowledge utilization happen. Organizations should develop knowledge focuses on data quality, application domain, selecting analytics techniques, and on how to take actions based on patterns and insights derived from analytics. Case studies in the book explore how to perform analytics on social networking and user-based data to develop knowledge. One case explores analyze data from Twitter feeds. Another examines the analysis of data obtained through user feedback. One chapter introduces the definitions and processes of social media analytics from different perspectives as well as focuses on techniques and tools used for social media analytics. Data visualization has a critical role in the advancement of modern data analytics, particularly in the field of business intelligence and analytics. It can guide managers in understanding market trends and customer purchasing patterns over time. The book illustrates various data visualization tools that can support answering different types of business questions to improve profits and customer relationships. This insightful reference concludes with a chapter on the critical issue of cybersecurity. It examines the process of collecting and organizing data as well as reviewing various tools for text analysis and data analytics and discusses dealing with collections of large datasets and a great deal of diverse data types from legacy system to social networks platforms.

**big data analytics knowledge management:** *Management Decision-Making, Big Data and Analytics* Simone Gressel, David J. Pauleen, Nazim Taskin, 2020-10-12 Accessible and concise, this exciting new textbook examines data analytics from a managerial and organizational perspective and looks at how they can help managers become more effective decision-makers. The book successfully combines theory with practical application, featuring case studies, examples and a 'critical incidents' feature that make these topics engaging and relevant for students of business and management. The book features chapters on cutting-edge topics, including: • Big data • Analytics • Managing emerging technologies and decision-making • Managing the ethics, security, privacy and legal aspects of data-driven decision-making The book is accompanied by an Instructor's Manual, PowerPoint slides and access to journal articles. Suitable for management students studying business analytics and decision-making at undergraduate, postgraduate and MBA levels.

**big data analytics knowledge management:** *ECKM 2023 24th European Conference on Knowledge Management Vol 2* Alvaro Rosa, 2023-09-07 These proceedings represent the work of contributors to the 24th European Conference on Knowledge Management (ECKM 2023), hosted by

Iscte - Instituto Universitário de Lisboa, Portugal on 7-8 September 2023. The Conference Chair is Prof Florinda Matos, and the Programme Chair is Prof Álvaro Rosa, both from Iscte Business School, Iscte - Instituto Universitário de Lisboa, Portugal. ECKM is now a well-established event on the academic research calendar and now in its 24th year the key aim remains the opportunity for participants to share ideas and meet the people who hold them. The scope of papers will ensure an interesting two days. The subjects covered illustrate the wide range of topics that fall into this important and ever-growing area of research. The opening keynote presentation is given by Professor Leif Edvinsson, on the topic of Intellectual Capital as a Missed Value. The second day of the conference will open with an address by Professor Noboru Konno from Tama Graduate School and Keio University, Japan who will talk about Society 5.0, Knowledge and Conceptual Capability, and Professor Jay Liebowitz, who will talk about Digital Transformation for the University of the Future. With an initial submission of 350 abstracts, after the double blind, peer review process there are 184 Academic research papers, 11 PhD research papers, 1 Masters Research paper, 4 Non-Academic papers and 11 work-in-progress papers published in these Conference Proceedings. These papers represent research from Australia, Austria, Brazil, Bulgaria, Canada, Chile, China, Colombia, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, India, Iran, Iraq, Ireland, Israel, Italy, Japan, Jordan, Kazakhstan, Kuwait, Latvia, Lithuania, Malaysia, México, Morocco, Netherlands, Norway, Palestine, Peru, Philippines, Poland, Portugal, Romania, South Africa, Spain, Sweden, Switzerland, Taiwan, Thailand, Tunisia, UK, United Arab Emirates and the USA.

**big data analytics knowledge management: Knowledge Management and Industry Revolution 4.0** Rajendra Kumar, Vishal Jain, Venus C. Ibarra, Corrienna Abdul Talib, Vinay Kukreja, 2024-09-27 Get up to speed with how the latest knowledge management and industry 4.0 technology help make enterprises secure, controlled, and optimized for a better future. This book focuses on how the practices of Industrial Revolution 4.0 and knowledge management interact to create value. In recent years, value chain relationships and related activities have utilized new technologies so that existing conceptual frameworks require a roadmap for innovation strategies and effective implementation. The chapters in this book include case studies contributed by researchers and industry practitioners that showcase the impact of practices and challenges presented by technological changes, upgrading of old systems, and internal and external factors. Knowledge Management and Industrial Revolution 4.0 describes how knowledge management impacts the automation of the industry in secure, controlled, and optimized ways. For instance, the use of the latest technologies and sensors can lead to significant time and cost savings, and operators can utilize their machines and equipment from remote locations. The Industrial Revolution 4.0 incorporates the latest technologies for automation and, in many cases, the result is similar to working from home, even in manufacturing. The use of deep learning should offer many quality control benefits. Furthermore, blockchain technology can help the industry with automation in secure and transparent ways. Apart from industry automation, other departments like human resources can also use effective knowledge management for better outcomes. The use of HR knowledge management allows employees to find and access the information they require without the assistance of the HR department. The book focuses on every aspect of the industry to help all the stakeholders of an organization. The benefits include a reduction in time required for accessing information, easier training, decreased operational expenses, improved stakeholders' satisfaction, faster problem-solving, increased pace of innovation, simpler employee review and progress reports. Audience The book will have a wide audience within academia, education, businesses, and industrial organizations, especially those who are undergoing industry 4.0 changes to optimize for a better future.

**big data analytics knowledge management: Collaborative Knowledge Management Through Product Lifecycle** Hongwei Wang, Gongzhuang Peng, 2023-03-01 This book not only presents the state-of-the-art research on knowledge modelling, knowledge retrieval and knowledge reuse, but also elaborates the Collaborative Knowledge Management (CKM) paradigm and the

architecture for the next generation of knowledge management systems. Although knowledge management has been extensively studied, particularly in the fields of business management and engineering design, there is a lack of systematic methodologies for addressing the integrated and collaborative dimension of knowledge management during the collaborative process of designing and developing complex systems, products, processes and services. The rapid development of information technologies, together with their applications in engineering and management, has laid the foundation for a Collaborative Knowledge Management (CKM) paradigm. The book specifically discusses this paradigm from a computational perspective. By exploring specific research findings underpinning further CKM research and applications and describing methods related to hot research topics and new research areas, the book appeals to professionals, researchers and graduate students who are interested in knowledge management and related topics and who have a basic understanding of information technologies, computational methods, and knowledge management.

**big data analytics knowledge management: Digital Economy, Business Analytics, and Big Data Analytics Applications** Saad G. Yaseen, 2022-09-26 This book is about turning data into smart decisions, knowledge into wisdom and business into business intelligence and insight. It explores diverse paradigms, methodologies, models, tools and techniques of the emerging knowledge domain of digitalized business analytics applications. The book covers almost every crucial aspect of applied artificial intelligence in business, smart mobile and digital services in business administration, marketing, accounting, logistics, finance and IT management. This book aids researchers, practitioners and decisions makers to gain enough knowledge and insight on how to effectively leverage data into competitive intelligence.

**big data analytics knowledge management: Encyclopedia of Organizational Knowledge, Administration, and Technology** Khosrow-Pour D.B.A., Mehdi, 2020-09-29 For any organization to be successful, it must operate in such a manner that knowledge and information, human resources, and technology are continually taken into consideration and managed effectively. Business concepts are always present regardless of the field or industry - in education, government, healthcare, not-for-profit, engineering, hospitality/tourism, among others. Maintaining organizational awareness and a strategic frame of mind is critical to meeting goals, gaining competitive advantage, and ultimately ensuring sustainability. The Encyclopedia of Organizational Knowledge, Administration, and Technology is an inaugural five-volume publication that offers 193 completely new and previously unpublished articles authored by leading experts on the latest concepts, issues, challenges, innovations, and opportunities covering all aspects of modern organizations. Moreover, it is comprised of content that highlights major breakthroughs, discoveries, and authoritative research results as they pertain to all aspects of organizational growth and development including methodologies that can help companies thrive and analytical tools that assess an organization's internal health and performance. Insights are offered in key topics such as organizational structure, strategic leadership, information technology management, and business analytics, among others. The knowledge compiled in this publication is designed for entrepreneurs, managers, executives, investors, economic analysts, computer engineers, software programmers, human resource departments, and other industry professionals seeking to understand the latest tools to emerge from this field and who are looking to incorporate them in their practice. Additionally, academicians, researchers, and students in fields that include but are not limited to business, management science, organizational development, entrepreneurship, sociology, corporate psychology, computer science, and information technology will benefit from the research compiled within this publication.

**big data analytics knowledge management: Knowledge Management in Theory and Practice, fourth edition** Kimiz Dalkir, 2023-05-09 This thoroughly revised fourth edition of the leading knowledge management (KM) textbook offers a comprehensive and accessible overview of the theory and practice of KM. Today's knowledge-driven economy raises the stakes for organizations and individuals whose success depends on the effective management of information and knowledge. Knowledge is an asset that is not always easily tapped, especially when embedded in

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**big data analytics knowledge management:** *ICICKM2015-12th International Conference on Intellectual Capital Knowledge Management & Organisational Learning* Vincent Ribi  re and Lugkana Worasinchai, 2015-10-20

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**big data analytics knowledge management:** *Multidisciplinary Approach in Research Area (Volume-14)* Chief Editor- Biplab Auddya, Editor- Dr. Mohiuddin Jainulabedin Shaikh, Dr. S. Govinda Rao, Dr. Ila Sehrawat, Dr. Ridhi Gupta, Prof(Dr) N L Mishra, Dr. S. Saravanan, 2024-06-27

**big data analytics knowledge management:** *ECKM 2017 18th European Conference on Knowledge Management* Academic Conferences and Publishing Limited, 2017

**big data analytics knowledge management:** *Handbook of Research on Biomimicry in Information Retrieval and Knowledge Management* Hamou, Reda Mohamed, 2017-12-15 In the digital age, modern society is exposed to high volumes of multimedia information. In efforts to optimize this information, there are new and emerging methods of information retrieval and knowledge management leading to higher efficiency and a deeper understanding of this data. The Handbook of Research on Biomimicry in Information Retrieval and Knowledge Management is a critical scholarly resource that examines bio-inspired classes that solve computer problems.

Featuring coverage on a broad range of topics such as big data analytics, bioinformatics, and black hole optimization, this book is geared towards academicians, practitioners, and researchers seeking current research on the use of biomimicry in information and knowledge management.

**big data analytics knowledge management: Knowledge Management and Industry 4.0**

Marco Bettiol, Eleonora Di Maria, Stefano Micelli, 2020-06-09 The book discusses the opportunities and challenges of managing knowledge in the new reality of Industry 4.0. Addressing paradigmatic changes in value creation due to the development of digital technologies applied to manufacturing (additive manufacturing, IoT, robotics, etc.), it includes theoretical and empirical contributions on how Industry 4.0 technologies allow firms to create and exploit knowledge. The carefully selected expert contributions highlight the potential of these technologies in acquiring knowledge from a larger number of sources and examine approaches to innovation, organization of activities, and stakeholder development in the context of this next industrial revolution.

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**big data analytics knowledge management: Understanding, Implementing, and Evaluating Knowledge Management in Business Settings** Merlo, Tereza Raquel, 2022-06-24 Although there are numerous publications in the field of knowledge management (KM), there are still gaps in the literature regarding the aspects of KM that reflect new technology adoption and a deeper analysis discussing the interlinked process between KM and data analytics in business process improvement. It is essential for business leaders to understand the role and responsibilities of leaders for the adoption and consolidation of a KM system that is effective and profitable. Understanding, Implementing, and Evaluating Knowledge Management in Business Settings provides a comprehensive approach to KM concepts and practices in corporations and business organizations. Covering topics such as information overload, knowledge sharing adoption, and collective wisdom, this premier reference source is a comprehensive and essential resource for business executives, managers, IT specialists and consultants, libraries, students, entrepreneurs, researchers, and academicians.

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