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# Acces PDF Handbook Of Research On Industrial Applications For Improved Supply Chain Performance

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## KEY=IMPROVED - DOUGLAS TRUJILLO

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### HANDBOOK OF RESEARCH ON INDUSTRIAL APPLICATIONS FOR IMPROVED SUPPLY CHAIN PERFORMANCE

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IGI Global In the industrial world, companies are always seeking competitive advantages to sustain themselves in the globalized market. A supply chain is one of these improvements that managers implement in order to stay ahead of the competition. However, certain methods of supply chains add risks such as the addition of costs, possible accidents, and economic losses. Because of this, companies are looking for techniques in which to progress their supply chain execution. The Handbook of Research on Industrial Applications for Improved Supply Chain Performance is a pivotal reference source that identifies techniques, tools, and methodologies that can improve supply chain performance and enable businesses to generate a competitive advantage in the globalized market. While highlighting topics such as material flow, route optimization, and green distribution, this publication is ideally designed for managers, executives, logistics engineers, production managers, warehouse operations managers, board directors, consultants, analysts, inventory control managers, researchers, academicians, industrial and managerial professionals, practitioners, and students looking to improve costs and quality of supply chains.

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### HANDBOOK OF RESEARCH ON SMART TECHNOLOGY APPLICATIONS IN THE TOURISM INDUSTRY

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IGI Global In today's modernized society, certain technologies have become more applicable within many professional fields and are much easier to implement. This includes the tourism industry, where smart technology has provided a range of new marketing possibilities including more effective sales tactics and delivering a more personalized customer experience. As the scope of business analytics continues to expand, professionals need research on the various applications of smart technology within the field of tourism. The Handbook of Research on Smart Technology Applications in the Tourism Industry is an essential reference source that discusses the use of intelligent systems in tourism as well as their influence on consumer relationships. Featuring research on topics such as digital advertising, wearable technology, and consumer behavior, this book is ideally designed for travel agents, tour developers, restaurateurs, hotel managers, tour directors, airlines, marketers, researchers, managers, hospitality professionals, policymakers, business strategists, researchers, academicians, and students seeking coverage on the use of smart technologies in tourism.

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### HANDBOOK OF RESEARCH ON INDUSTRIAL INFORMATICS AND MANUFACTURING INTELLIGENCE: INNOVATIONS AND SOLUTIONS

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#### INNOVATIONS AND SOLUTIONS

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IGI Global "This book is the best source for the most current, relevant, cutting edge research in the field of industrial informatics focusing on different methodologies of information technologies to enhance industrial fabrication, intelligence, and manufacturing processes"--Provided by publisher.

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### HANDBOOK OF RESEARCH METHODS AND APPLICATIONS IN ECONOMIC GEOGRAPHY

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### HANDBOOK OF POLYMER NANOCOMPOSITES FOR INDUSTRIAL APPLICATIONS

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Elsevier Handbook of Polymer Nanocomposites for Industrial Applications summarizes the properties of polymer nanocomposites, discusses their industrial scale fabrication methods, and presents their applications for various industrial sectors at both experimental and theoretical models scales. The book also addresses existing challenges for the use of polymer nanocomposites in major industrial sectors. Overall, the aim of this book is to summarize the recent advancements in the use of PNCs in a variety of industry sectors. Particular attention is paid to those approaches that enable green and sustainable industrial developments. The legal, economical and toxicity aspects of polymer nanocomposite are also presented in detail. Comprehensively explores how polymer nanocomposites are being used to create more efficient products and devices in a variety of industry sectors Explores the environmental, legal, health and safety issues of using polymer nanocomposites in an industrial context Develops a roadmap to the wider commercial utilization of polymer nanocomposites Emphasizes the use of polymer nanocomposites in green and

sustainable technologies

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## **HANDBOOK OF RESEARCH METHODS AND APPLICATIONS IN EMPIRICAL MACROECONOMICS**

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**Edward Elgar Publishing** This comprehensive Handbook presents the current state of art in the theory and methodology of macroeconomic data analysis. It is intended as a reference for graduate students and researchers interested in exploring new methodologies, but can also be employed as a graduate text. The Handbook concentrates on the most important issues, models and techniques for research in macroeconomics, and highlights the core methodologies and their empirical application in an accessible manner. Each chapter is largely self-contained, whilst the comprehensive introduction provides an overview of the key statistical concepts and methods. All of the chapters include the essential references for each topic and provide a sound guide for further reading. Topics covered include unit roots, non-linearities and structural breaks, time aggregation, forecasting, the Kalman filter, generalised method of moments, maximum likelihood and Bayesian estimation, vector autoregressive, dynamic stochastic general equilibrium and dynamic panel models. Presenting the most important models and techniques for empirical research, this Handbook will appeal to students, researchers and academics working in empirical macro and econometrics.

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## **HANDBOOK OF RESEARCH ON INNOVATIVE MANAGEMENT USING AI IN INDUSTRY 5.0**

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**IGI Global** There is no industry left where artificial intelligence is not used in some capacity. The application of this technology has already stretched across a multitude of domains including law and policy; it will soon permeate areas beyond anyone's imagination. Technology giants such as Google, Apple, and Facebook are already investing their money, effort, and time toward integrating artificial intelligence. As this technology continues to develop and expand, it is critical for everyone to understand the various applications of artificial intelligence and its full potential. The Handbook of Research on Innovative Management Using AI in Industry 5.0 uncovers new and innovative features of artificial intelligence and how it can help in raising economic efficiency at both micro and macro levels and provides a deeper understanding of the relevant aspects of artificial intelligence impacting efficacy for better output. Covering topics such as consumer behavior, information technology, and personalized banking, it is an ideal resource for researchers, academicians, policymakers, business professionals, companies, and students.

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## **HANDBOOK OF NANOMATERIALS FOR INDUSTRIAL APPLICATIONS**

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**Elsevier** Handbook of Nanomaterials for Industrial Applications explores the use of novel nanomaterials in the industrial arena. The book covers nanomaterials and the techniques that can play vital roles in many industrial procedures, such as increasing sensitivity, magnifying precision and improving production limits. In addition, the book stresses that these approaches tend to provide green, sustainable solutions for industrial developments. Finally, the legal, economical and toxicity aspects of nanomaterials are covered in detail, making this is a comprehensive, important resource for anyone wanting to learn more about how nanomaterials are changing the way we create products in modern industry. Demonstrates how cutting-edge developments in nanomaterials translate into real-world innovations in a range of industry sectors Explores how using nanomaterials can help engineers to create innovative consumer products Discusses the legal, economical and toxicity issues arising from the industrial applications of nanomaterials

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## **HANDBOOK OF RESEARCH METHODS AND APPLICATIONS IN ECONOMIC GEOGRAPHY**

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**Edward Elgar Publishing** The main purpose of this Handbook is to provide overviews and assessments of the state-of-the-art regarding research methods, approaches and applications central to economic geography. The chapters are written by distinguished researchers from a variety

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## **HANDBOOK OF RESEARCH ON DIGITAL TRANSFORMATION, INDUSTRY USE CASES, AND THE IMPACT OF DISRUPTIVE TECHNOLOGIES**

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**IGI Global** Companies from various sectors of the economy are confronted with the new phenomenon of digital transformation and are faced with the challenge of formulating and implementing a company-wide strategy to incorporate what are often viewed as "disruptive" technologies. These technologies are sometimes associated with significant and extremely rapid change, in some cases with even the replacement of established business models. Many of these technologies have been deployed in unison by leading-edge companies acting as the catalyst for significant process change and people skills enhancement. The Handbook of Research on Digital Transformation, Industry Use Cases, and the Impact of Disruptive Technologies examines the phenomenon of digital transformation and the impact of disruptive technologies through the lens of industry case studies where different combinations of these new technologies have been deployed and incorporated into enterprise IT and business strategies. Covering topics including chatbot implementation, multinational companies, cloud computing, internet of things, artificial intelligence, big data and analytics, immersive technologies, and social media, this book is essential for senior management, IT managers, technologists, computer scientists, cybersecurity analysts, academicians, researchers, IT consultancies, professors, and students.

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## **HANDBOOK OF RESEARCH ON DEVELOPMENTS AND TRENDS IN INDUSTRIAL AND MATERIALS ENGINEERING**

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**IGI Global** In today's modernized world, new research and empirical findings are being conducted and found within various professional industries. The field of engineering is no different. Industrial and material engineering is continually advancing, making it challenging for practitioners to keep pace with the most recent trends and methods.

Engineering professionals need a handbook that provides up-to-date research on the newest methodologies in this imperative industry. The Handbook of Research on Developments and Trends in Industrial and Materials Engineering is a collection of innovative research on the theoretical and practical aspects of integrated systems within engineering. This book provides a forum for professionals to understand the advancing methods of engineering. While highlighting topics including operations management, decision analysis, and communication technology, this book is ideally designed for researchers, managers, engineers, industrialists, manufacturers, academicians, policymakers, scientists, and students seeking current research on recent findings and modern approaches within industrial and materials engineering.

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### **HANDBOOK OF RESEARCH ON ARTIFICIAL INTELLIGENCE TECHNIQUES AND ALGORITHMS**

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**IGI Global** For decades, optimization methods such as Fuzzy Logic, Artificial Neural Networks, Firefly, Simulated annealing, and Tabu search, have been capable of handling and tackling a wide range of real-world application problems in society and nature. Analysts have turned to these problem-solving techniques in the event during natural disasters and chaotic systems research. The Handbook of Research on Artificial Intelligence Techniques and Algorithms highlights the cutting edge developments in this promising research area. This premier reference work applies Meta-heuristics Optimization (MO) Techniques to real world problems in a variety of fields including business, logistics, computer science, engineering, and government. This work is particularly relevant to researchers, scientists, decision-makers, managers, and practitioners.

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### **HANDBOOK OF RESEARCH ON INFORMATION AND RECORDS MANAGEMENT IN THE FOURTH INDUSTRIAL REVOLUTION**

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**IGI Global** Information and records management has been an important part of society for establishing procedures to effectively manage information. As technology has increased in society, this essential function has been impacted as well. With the onset of technological tools brought upon by the fourth industrial revolution, technologies such as artificial intelligence, the internet of things, big data, and more have changed the face of information and records management. These technologies and tools have paved new ways for security, efficiency in timely processes, new ways to create and process records, and other beneficial traits. Along with these advancements come new contemporary issues, leading to the need for research on how exactly information records management is functioning in modern times, the technologies brought on by the fourth industrial revolution, and both the benefits and challenges to this transition. The Handbook of Research on Information and Records Management in the Fourth Industrial Revolution showcases contemporary issues and demonstrates the value of information and records management in the fourth industrial revolution. The book provides a summary of the key activities undertaken by information and records managers as they seek to make records and information management more visible in the modern knowledge-driven society. The chapters highlight innovation, the use of information and communication technology in information and records management, best practices, challenges encountered, and how they are overcome. The target audience of this book will be composed of professionals, librarians, archivists, lecturers, and researchers working in the field of library and information science, along with practitioners, academicians, and students interested in information and records management in the 21st century.

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### **HANDBOOK OF RESEARCH ON MACHINE LEARNING**

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#### **FOUNDATIONS AND APPLICATIONS**

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**CRC Press** This volume takes the reader on a technological voyage of machine learning advancements, highlighting the systematic changes in algorithms, challenges, and constraints. The technological advancements in the ML arena have transformed and revolutionized several fields, including transportation, agriculture, finance, weather monitoring, and others. This book brings together researchers, authors, industrialists, and academicians to cover a vast selection of topics in ML, starting with the rudiments of machine learning approaches and going on to specific applications in healthcare and industrial automation. The book begins with an overview of the ethics, security and privacy issues, future directions, and challenges in machine learning as well as a systematic review of deep learning techniques and provides an understanding of building generative adversarial networks. Chapters explore predictive data analytics for health issues. The book also adds a macro dimension by highlighting the industrial applications of machine learning, such as in the steel industry, for urban information retrieval, in garbage detection, in measuring air pollution, for stock market predictions, for underwater fish detection, as a fake news predictor, and more.

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### **HANDBOOK OF RESEARCH ON INNOVATIONS AND APPLICATIONS OF AI, IOT, AND COGNITIVE TECHNOLOGIES**

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**IGI Global** Recently, artificial intelligence (AI), the internet of things (IoT), and cognitive technologies have successfully been applied to various research domains, including computer vision, natural language processing, voice recognition, and more. In addition, AI with IoT has made a significant breakthrough and a shift in technical direction to achieve high efficiency and adaptability in a variety of new applications. On the other hand, network design and optimization for AI applications addresses a complementary topic, namely the support of AI-based systems through novel networking techniques, including new architectures, as well as performance models for IoT systems. IoT has paved the way to a plethora of new application domains, at the same time posing several challenges as a multitude of devices, protocols, communication channels, architectures, and middleware exist. Big data generated by these devices calls for advanced learning and data mining techniques to effectively understand, learn, and reason with this volume of information, such

as cognitive technologies. Cognitive technologies play a major role in developing successful cognitive systems which mimic “cognitive” functions associated with human intelligence, such as “learning” and “problem solving.” Thus, there is a continuing demand for recent research in these two linked fields. The Handbook of Research on Innovations and Applications of AI, IoT, and Cognitive Technologies discusses the latest innovations and applications of AI, IoT, and cognitive-based smart systems. The chapters cover the intersection of these three fields in emerging and developed economies in terms of their respective development situation, public policies, technologies and intellectual capital, innovation systems, competition and strategies, marketing and growth capability, and governance and relegation models. These applications span areas such as healthcare, security and privacy, industrial systems, multidisciplinary sciences, and more. This book is ideal for technologists, IT specialists, policymakers, government officials, academics, students, and practitioners interested in the experiences of innovations and applications of AI, IoT, and cognitive technologies.

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### **HANDBOOK OF RESEARCH ON ADVANCED APPLICATIONS OF GRAPH THEORY IN MODERN SOCIETY**

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**IGI Global** In the world of mathematics and computer science, technological advancements are constantly being researched and applied to ongoing issues. Setbacks in social networking, engineering, and automation are themes that affect everyday life, and researchers have been looking for new techniques in which to solve these challenges. Graph theory is a widely studied topic that is now being applied to real-life problems. The Handbook of Research on Advanced Applications of Graph Theory in Modern Society is an essential reference source that discusses recent developments on graph theory, as well as its representation in social networks, artificial neural networks, and many complex networks. The book aims to study results that are useful in the fields of robotics and machine learning and will examine different engineering issues that are closely related to fuzzy graph theory. Featuring research on topics such as artificial neural systems and robotics, this book is ideally designed for mathematicians, research scholars, practitioners, professionals, engineers, and students seeking an innovative overview of graphic theory.

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### **HANDBOOK OF RESEARCH ON TECHNOLOGY APPLICATIONS FOR EFFECTIVE CUSTOMER ENGAGEMENT**

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**IGI Global** In the challenging digital economy, bridging the gap between the external stakeholder and business entities through effective applications of technology carries more importance than ever before. By building a strong online presence and maintaining a long-lasting relationship with valuable customers through high-quality customer experience, companies continue to thrive during this digital age. The Handbook of Research on Technology Applications for Effective Customer Engagement is a pivotal reference source that provides vital research on the utilization of the best research practices for consumer satisfaction and loyalty. While highlighting topics such as target marketing, consumer behavior, and brand equity, this publication explores the applications of modern technology in marketing as well as recent business activities of international companies. This book is ideally designed for business professionals, practitioners, marketers, advertisers, brand managers, retailers, managers, academics, researchers, and graduate-level students.

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### **HANDBOOK OF RESEARCH ON FOUNDATIONS AND APPLICATIONS OF INTELLIGENT BUSINESS ANALYTICS**

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**Business Science Reference** "This book addresses research issues by investigating into foundations, technologies, and applications of intelligent business analytics, offering theoretical foundations, technologies, methodologies, and applications of intelligent business analytics in an integrated way"--

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### **HANDBOOK OF MEMBRANE REACTORS**

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#### **REACTOR TYPES AND INDUSTRIAL APPLICATIONS**

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**Elsevier** Membrane reactors are increasingly replacing conventional separation, process and conversion technologies across a wide range of applications. Exploiting advanced membrane materials, they offer enhanced efficiency, are very adaptable and have great economic potential. There has therefore been increasing interest in membrane reactors from both the scientific and industrial communities, stimulating research and development. The two volumes of the Handbook of membrane reactors draw on this research to provide an authoritative review of this important field. Volume 2 reviews reactor types and industrial applications, beginning in part one with a discussion of selected types of membrane reactor and integration of the technology with industrial processes. Part two goes on to explore the use of membrane reactors in chemical and large-scale hydrogen production from fossil fuels. Electrochemical devices and transport applications of membrane reactors are the focus of part three, before part four considers the use of membrane reactors in environmental engineering, biotechnology and medicine. Finally, the book concludes with a discussion of the economic aspects of membrane reactors. With its distinguished editor and international team of expert contributors, the two volumes of the Handbook of membrane reactors provide an authoritative guide for membrane reactor researchers and materials scientists, chemical and biochemical manufacturers, industrial separations and process engineers, and academics in this field. Discusses integration of membrane technology with industrial processes Explores the use of membrane reactors in chemical and large-scale hydrogen production from fossil fuels Considers electrochemical devices and transport applications of membrane reactors

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### **INDUSTRIAL APPLICATIONS OF POWER ELECTRONICS**

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**MDPI** In recent years, power electronics have been intensely contributing to the development and evolution of new structures for the processing of energy. They can be used in a wide range of applications ranging from power systems

and electrical machines to electric vehicles and robot arm drives. In conjunction with the evolution of microprocessors and advanced control theories, power electronics are playing an increasingly essential role in our society. Thus, in order to cope with the obstacles lying ahead, this book presents a collection of original studies and modeling methods which were developed and published in the field of electrical energy conditioning and control by using circuits and electronic devices, with an emphasis on power applications and industrial control. Researchers have contributed 19 selected and peer-reviewed papers covering a wide range of topics by addressing a wide variety of themes, such as motor drives, AC-DC and DC-DC converters, multilevel converters, varistors, and electromagnetic compatibility, among others. The overall result is a book that represents a cohesive collection of inter-/multidisciplinary works regarding the industrial applications of power electronics.

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## **HANDBOOK OF BIOLOGICAL DYES AND STAINS**

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### **SYNTHESIS AND INDUSTRIAL APPLICATIONS**

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**John Wiley & Sons** A COMPLETE, UP-TO-DATE RESOURCE OF INFORMATION ON MORE THAN 200 DYES AND STAINS  
**Handbook of Biological Dyes and Stains** is the most comprehensive volume available on the subject, covering all the available dyes and stains known to date in the literature for use in biology and medicine. Top dye expert Dr. Ram Sabnis organizes the compounds alphabetically by the most commonly used chemical name. He presents an easy-to-use reference complete with novel ideas for breakthrough research in medical, biological, chemical, and related fields. This is the first book to give the CAS registry number, chemical structure, Chemical Abstracts index name, all other chemical names, Merck Index number, chemical/dye class, molecular formula, molecular weight, physical form, solubility, melting point, boiling point, pH range, color change at pH, pKa, absorption, and emission maxima of dyes and stains, as well as to provide access to synthesis procedures (lab scale and industrial scale) of dyes and stains. This user-friendly handbook also features references on safety, toxicity, and adverse effects of dyes and stains on humans, animals, and the environment, including: acute/chronic toxicity aquatic toxicity carcinogenicity cytotoxicity ecotoxicity genotoxicity hepatotoxicity marine toxicity mutagenicity nephrotoxicity neurotoxicity oral toxicity phototoxicity phytotoxicity The use of biological dyes and stains has extremely high potential in today's business environment. This makes **Handbook of Biological Dyes and Stains** a convenient, must-have reference. Its staining, biological, and industrial applications make it a vital resource for industrial and academic researchers; the book also serves as a valuable desktop reference for medical professionals, biologists, chemists, chemical/optical engineers, physicists, materials scientists, intellectual property professionals, students, and professors.

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## **ADVANCING SMARTER AND MORE SECURE INDUSTRIAL APPLICATIONS USING AI, IOT, AND BLOCKCHAIN TECHNOLOGY**

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"This book articulates and accentuates various AI algorithms, fresh innovations in the IoT and blockchain spaces explaining how suggested AI algorithms come in handy in producing predictive and prescriptive insights out of big data"--

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## **INDUSTRIAL APPLICATIONS OF MACHINE LEARNING**

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**CRC Press** **Industrial Applications of Machine Learning** shows how machine learning can be applied to address real-world problems in the fourth industrial revolution, and provides the required knowledge and tools to empower readers to build their own solutions based on theory and practice. The book introduces the fourth industrial revolution and its current impact on organizations and society. It explores machine learning fundamentals, and includes four case studies that address a real-world problem in the manufacturing or logistics domains, and approaches machine learning solutions from an application-oriented point of view. The book should be of special interest to researchers interested in real-world industrial problems. Features Describes the opportunities, challenges, issues, and trends offered by the fourth industrial revolution Provides a user-friendly introduction to machine learning with examples of cutting-edge applications in different industrial sectors Includes four case studies addressing real-world industrial problems solved with machine learning techniques A dedicated website for the book contains the datasets of the case studies for the reader's reproduction, enabling the groundwork for future problem-solving Uses of three of the most widespread software and programming languages within the engineering and data science communities, namely R, Python, and Weka

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## **HANDBOOK OF RESEARCH ON APPLIED AI FOR INTERNATIONAL BUSINESS AND MARKETING APPLICATIONS**

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

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## **HANDBOOK OF RESEARCH ON SOCIAL MEDIA APPLICATIONS FOR THE TOURISM AND HOSPITALITY SECTOR**

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**IGI Global** Tourists frequently rely on social networks to provide information about a product or destination as a decision support tool to make adequate decisions in the process of planning a trip. In this digital environment, tourists share their travel experiences, impressions, emotions, special moments, and opinions about an assortment of tourist services like hotels, restaurants, airlines, and car rental services, all of which contribute to the online reputation of a tourist destination. The Handbook of Research on Social Media Applications for the Tourism and Hospitality Sector is a fundamental reference source that provides vital theoretical frameworks and the latest innovative empirical research findings of online social media in the tourism industry. While highlighting topics such as e-business, mobile marketing, and smart tourism, this publication explores user-generated content and the methods of mobile strategies. This book is ideally designed for tour developers, travel agents, restaurateurs, hotel management, tour directors, entrepreneurs, social media analysts, managers, industry professionals, academicians, researchers, and students.

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## **HANDBOOK OF RESEARCH ON THE INTERNET OF THINGS APPLICATIONS IN ROBOTICS AND AUTOMATION**

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**IGI Global** With near-universal internet access and ever-advancing electronic devices, the ability to facilitate interactions between various hardware and software provides endless possibilities. Though internet of things (IoT) technology is becoming more popular among individual users and companies, more potential applications of this technology are being sought every day. There is a need for studies and reviews that discuss the methodologies, concepts, and possible problems of a technology that requires little or no human interaction between systems. The Handbook of Research on the Internet of Things Applications in Robotics and Automation is a pivotal reference source on the methods and uses of advancing IoT technology. While highlighting topics including traffic information systems, home security, and automatic parking, this book is ideally designed for network analysts, telecommunication system designers, engineers, academicians, technology specialists, practitioners, researchers, students, and software developers seeking current research on the trends and functions of this life-changing technology.

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## **HANDBOOK OF RESEARCH ON APPROACHES TO ALTERNATIVE ENTREPRENEURSHIP OPPORTUNITIES**

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**IGI Global** In some cases, technology-based projects have revolutionized the way of living by contributing to job and wealth creation. These types of ventures, regardless of their outstanding relevance, are the exception rather than the norm in that they account for only a very small percentage of entrepreneurial activity. Although not ignoring these important ventures, the main goal of this title is to fully unleash the wide potential of the entrepreneurial activity, exploring and highlighting the somewhat hidden part, which is ultimately responsible for the largest part of new businesses and, as a consequence, for the wellbeing of millions of people virtually everywhere. The Handbook of Research on Approaches to Alternative Entrepreneurship Opportunities is a collection of innovative research on the methods and applications of entrepreneurial activity beyond the traditional boundaries of entrepreneurship research. While highlighting topics including collective business, organizational performance, and generational differences, this book is ideally designed for entrepreneurs, developers, researchers, business managers, industry professionals, academicians, and students seeking to draw attention to distinctive and multifaceted types of entrepreneurship.

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## **HANDBOOK OF RESEARCH ON ADVANCED MECHATRONIC SYSTEMS AND INTELLIGENT ROBOTICS**

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**IGI Global** Advanced research in the field of mechatronics and robotics represents a unifying interdisciplinary and intelligent engineering science paradigm. It is a holistic, concurrent, and interdisciplinary engineering science that identifies novel possibilities of synergizing and fusing different disciplines. The Handbook of Research on Advanced Mechatronic Systems and Intelligent Robotics is a collection of innovative research on the methods and applications of knowledge in both theoretical and practical skills of intelligent robotics and mechatronics. While highlighting topics including green technology, machine learning, and virtual manufacturing, this book is ideally designed for researchers, students, engineers, and computer practitioners seeking current research on developing innovative ideas for intelligent robotics and autonomous and smart interdisciplinary mechatronic products.

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## **HANDBOOK OF RESEARCH ON MACHINE LEARNING APPLICATIONS AND TRENDS: ALGORITHMS, METHODS, AND TECHNIQUES**

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### **ALGORITHMS, METHODS, AND TECHNIQUES**

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**IGI Global** "This book investigates machine learning (ML), one of the most fruitful fields of current research, both in the proposal of new techniques and theoretic algorithms and in their application to real-life problems"--Provided by publisher.

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## **HANDBOOK OF RESEARCH ON THE APPLICATIONS OF INTERNATIONAL TRANSPORTATION AND LOGISTICS FOR WORLD TRADE**

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**IGI Global** In today's developing world, international trade is a field that is rapidly growing. Within this economic market, traders need to implement new approaches in order to satisfy consumers' rising demands. Due to the high level of competition, merchants have focused on developing new transportation and logistics strategies. In order to execute effective transportation tactics, decision makers need to know the fundamentals, current developments, and future trends of intercontinental transportation. The Handbook of Research on the Applications of International Transportation and Logistics for World Trade provides emerging research exploring the effective and productive

solutions to global transportation and logistics by applying fundamental and in-depth knowledge together with current applications and future aspects. Featuring coverage on a broad range of topics such as international regulations, inventory management, and distribution networks, this book is ideally designed for logistics authorities, trading companies, logistics operators, transportation specialists, government officials, managers, policymakers, researchers, academicians, and students.

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### **HANDBOOK OF RESEARCH ON EMERGING INNOVATIONS IN RAIL TRANSPORTATION ENGINEERING**

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[IGI Global](#) The rail-based transit system is a popular public transportation option, not just with members of the public but also with policy makers looking to install a form of convenient and rapid travel. Even for moving bulk freight long distances, a rail-based system is the most sustainable transportation system currently available. The Handbook of Research on Emerging Innovations in Rail Transportation Engineering presents the latest research on next-generation public transportation infrastructures. Emphasizing a diverse set of topics related to rail-based transportation such as funding issues, policy design, traffic planning and forecasting, and engineering solutions, this comprehensive publication is an essential resource for transportation planners, engineers, policymakers, and graduate-level engineering students interested in uncovering research-based solutions, recommendations, and examples of modern rail transportation systems.

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### **HANDBOOK OF RESEARCH ON ENGINEERING INNOVATIONS AND TECHNOLOGY MANAGEMENT IN ORGANIZATIONS**

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[IGI Global](#) As technology weaves itself more tightly into everyday life, socio-economic development has become intricately tied to these ever-evolving innovations. Technology management is now an integral element of sound business practices, and this revolution has opened up many opportunities for global communication. However, such swift change warrants greater research that can foresee and possibly prevent future complications within and between organizations. The Handbook of Research on Engineering Innovations and Technology Management in Organizations is a collection of innovative research that explores global concerns in the applications of technology to business and the explosive growth that resulted. Highlighting a wide range of topics such as cyber security, legal practice, and artificial intelligence, this book is ideally designed for engineers, manufacturers, technology managers, technology developers, IT specialists, productivity consultants, executives, lawyers, programmers, managers, policymakers, academicians, researchers, and students.

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### **DECISION SCIENCES AND APPLICATIONS IN THE TRANSPORTATION SECTOR**

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"This book will provide relevant theoretical and practical frameworks and the latest research findings in the area of decision sciences and applications in the transportation sector for researchers, executives and practitioners who want to enrich their scientific knowledge and improve their understanding of the decision-making process in facing real-world problems in the transportation sector"--

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### **HANDBOOK OF RESEARCH ON SCIENCE EDUCATION**

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[Routledge](#) Building on the foundation set in Volume I—a landmark synthesis of research in the field—Volume II is a comprehensive, state-of-the-art new volume highlighting new and emerging research perspectives. The contributors, all experts in their research areas, represent the international and gender diversity in the science education research community. The volume is organized around six themes: theory and methods of science education research; science learning; culture, gender, and society and science learning; science teaching; curriculum and assessment in science; science teacher education. Each chapter presents an integrative review of the research on the topic it addresses—pulling together the existing research, working to understand the historical trends and patterns in that body of scholarship, describing how the issue is conceptualized within the literature, how methods and theories have shaped the outcomes of the research, and where the strengths, weaknesses, and gaps are in the literature. Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research, the Handbook of Research on Science Education, Volume II is an essential resource for the entire science education community.

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### **VIRTUAL TECHNOLOGIES FOR BUSINESS AND INDUSTRIAL APPLICATIONS: INNOVATIVE AND SYNERGISTIC APPROACHES**

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#### **INNOVATIVE AND SYNERGISTIC APPROACHES**

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[IGI Global](#) "This book provides research related to the concept of virtual reality and developing business models using this concept"--Provided by publisher.

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#### **ARTIFICIAL INTELLIGENCE IN INDUSTRIAL APPLICATIONS**

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#### **APPROACHES TO SOLVE THE INTRINSIC INDUSTRIAL OPTIMIZATION PROBLEMS**

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[Springer Nature](#)

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#### **INDUSTRIAL ENZYME APPLICATIONS**

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[John Wiley & Sons](#) This reference is a "must-read": It explains how an effective and economically viable enzymatic

process in industry is developed and presents numerous successful examples which underline the efficiency of biocatalysis.

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## **INFORMATION AND COMMUNICATION TECHNOLOGIES IN EDUCATION, RESEARCH, AND INDUSTRIAL APPLICATIONS**

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### **16TH INTERNATIONAL CONFERENCE, ICTERI 2020, KHARKIV, UKRAINE, OCTOBER 6-10, 2020, REVISED SELECTED PAPERS**

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**Springer** This book contains revised and extended versions of the best papers presented at the 16th International Conference on Information and Communication Technologies in Education, Research, and Industrial Applications, ICTERI 2020, held in Kherson, Ukraine, in October 2020. Due to the COVID-19 pandemic the conference was held online. The 8 revised full papers included in this volume were carefully reviewed and selected from 347 initial submissions. The papers are organized in the following topical sections: ICT in education; ICT in research and industry.

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## **GREEN NANOMATERIALS FOR INDUSTRIAL APPLICATIONS**

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**Elsevier** Green Nanomaterials for Industrial Applications explores the applications of nanomaterials for a variety of industry sectors, along with their environmental impacts, lifecycle analysis, safety and sustainability. This book brings together the industrial applications of nanomaterials, covering new trends and challenges. Significant properties, safety and sustainability and environmental impacts of synthesis routes are also explored, as are major industrial applications, including agriculture, medicine, communications, construction, energy, and in the military. This book is an important information source for those in research and development who want to gain a greater understanding of how nanotechnology is being used to create cheaper, more efficient products. Green nanomaterials have significant advantages including low cost, high efficiency, neutral environmental impact, and stability. Green Nanomaterials for Industrial Applications provides comprehensive information about green nanomaterials, their types, and methods for generation, characterization as well as their properties. Furthermore, this book also provides coverage of industrial scale fabrication methods for green nanomaterials and their applications for various industrial sectors at both experimental and theoretical models scales. This book is an important reference source for materials scientists, engineers and environmental scientists who want to learn more about how sustainable nanomaterials are being used in a range of industrial applications. Explores industrial scale fabrication of green nanomaterials Assesses environmental, legal, health and safety aspects Discusses how green nanomaterials can be manufactured on an industrial scale

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## **ADVANCES IN INDUSTRIAL ENGINEERING AND OPERATIONS RESEARCH**

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**Springer Science & Business Media** This volume contains contributions from prominent researchers who participated in the 2007 IAENG International Conference on Operations Research. It presents theories and applications of modern industrial engineering and operations research to meet the needs of rapidly developing fields. The book reflects the tremendous advances in communication systems and electrical engineering and also serves as an excellent reference work for researchers and graduate students.