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Detecting and Mitigating Robotic Cyber Security Risks Basic of Engineering Chemistry (For RGPV, Bhopal) Handbook of Research on Technical, Privacy, and Security Challenges in a Modern World Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning Basics of Engineering Mathematics Vol-III(RGPV Bhopal) Machine Vision and Augmented Intelligence—Theory and Applications Using Computational Intelligence for the Dark Web and Illicit Behavior Detection Basics of Engineering Mathematics Vol-I (RGPV Bhopal) Basic Engineering Mathematics Volume - I (For 1st Semester of RGPV, Bhopal) Handbook of Research on Advanced Data Mining Techniques and Applications for Business Intelligence Web Data Mining and the Development of Knowledge-Based Decision Support Systems Basic of Engineering Mathematics Vol-II (RGPV Bhopal) M.P. Deep Learning Innovations and Their Convergence With Big Data Advancements in Bio-Medical Image Processing and Authentication in Telemedicine Improving E-Commerce Web Applications Through Business Intelligence Techniques Machine Intelligence and Smart Systems Engineering Graphics: For RGPV Mobile Platforms, Design, and Apps for Social Commerce Handbook of Research on Emerging Trends and Applications of Machine Learning Wearable Telemedicine Technology for the Healthcare Industry Web Semantics for Textual and Visual Information Retrieval Handbook of Research on Technological Advances of Library and Information Science in Industry 5.0 Decision Science and Operations Management of Solar Energy Systems Ocean Energy Modeling and Simulation with Big Data Cognitive Radio and Interference Management: Technology and Strategy Environmental Processes and Management Handbook of Research on Cyber Crime and

Information Privacy Design and Optimization of Biogas Energy Systems Handbook of Research on Security Considerations in Cloud Computing Tidal Energy Systems Large-Scale Data Streaming, Processing, and Blockchain Security Intelligence of Things: AI-IoT Based Critical-Applications and Innovations Intelligent Multidimensional Data and Image Processing An Information Resource On Education Sentiment Analysis and Knowledge Discovery in Contemporary Business RGPV English for Communication Applied Approach to Privacy and Security for the Internet of Things Industrial Internet of Things The Internet of Medical Things (IoMT) and Telemedicine Frameworks and Applications Handbook of Research on Pattern Engineering System Development for Big Data Analytics

This book has specially been written for the students of first year who are pursuing BTech from RGPV Bhopal (Madhya Pradesh) India . The book has been designed as per the syllabus of English for Communication (BT103) first year semester 1 and 2. The students of Engineering will find this book very useful. This book aims at improving communication skills of the students of engineering and it will also support engineering students in getting good grades in their end semester examinations. Although, this book aims at improving communication skills of Engineers /technocrats /technologists /professionals yet it is not limited to Engineers/Professionals. Any one can improve his communication skills by reading it. If you want to improve your communication skills, do read this book. This book will also be useful for the students of other universities. It covers some very important topics like communication, verbal and nonverbal

communication, barriers to communication, letter writing formal, informal and business letters/ business correspondence, business email, technical communication, technical description, technical definition, report writing, structure and lay out of report, recommendation report and precis writing. For B.E. First Year Semester Ii (All Branches). Strictly According To The Syllabus Of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) In the era of social connectedness, people are becoming increasingly enthusiastic about interacting, sharing, and collaborating through online collaborative media. However, conducting sentiment analysis on these platforms can be challenging, especially for business professionals who are using them to collect vital data. Sentiment Analysis and Knowledge Discovery in Contemporary Business is an essential reference source that discusses applications of sentiment analysis as well as data mining, machine learning algorithms, and big data streams in business environments. Featuring research on topics such as knowledge retrieval and knowledge updating, this book is ideally designed for business managers, academicians, business professionals, researchers, graduate-level students, and technology developers seeking current research on data collection and management to drive profit. This book presents an in-depth, science-based approach to applying key project-management and spatial tools and practices in environmental projects. Providing important data for those considering projects that balance social-economic growth against minimizing its ill-effects on planet Earth, the book discusses various aspects of environmental engineering, as well as formula and analytical approaches required for more informed decision-making. Beginning with a broad overview of the factors and features of environmental processes and management, the book then clearly details the general application of fundamental processes, the characteristics of the different systems in which they occur, and the way in which these factors influence process dynamics, environmental systems, and their possible remedies. While primarily intended for professionals responsible for the management of environmental projects or interested in improving the overall efficiency of such projects, it is also useful for managers in the private, public, and

not-for-profit sectors. Further, it is a valuable resource for students at both undergraduate and postgraduate levels, and an indispensable guide for anyone wanting to develop their skills in modern environmental management and related techniques. "This book focuses on the key technologies, challenges, and research directions of IIoT. It provides a basis for discussing open principles, methods, and research problems and provides a systematic overview of the state-of-the-art research efforts, directions, and potential challenges associated with IIoT. Industrial Internet of Things: Technologies and Research Directions covers how industry automation is projected to be the largest and fastest-growing segment of the market. It explores the collaborative development of high-performance telecommunications, military, industrial, and general-purpose embedded computing applications, and offers a systematic overview of the state-of-the-art research efforts and new potential directions. Researchers, academicians, and professionals working in this inter-disciplinary area will be interested in this book"-- Strictly according to the syllabus (2012-2013) of Rajiv Gandhi Proudyogiki Vishvidayala, Bhopal (M.P). As today's world continues to advance, Artificial Intelligence (AI) is a field that has become a staple of technological development and led to the advancement of numerous professional industries. An application within AI that has gained attention is machine learning. Machine learning uses statistical techniques and algorithms to give computer systems the ability to understand and its popularity has circulated through many trades. Understanding this technology and its countless implementations is pivotal for scientists and researchers across the world. The Handbook of Research on Emerging Trends and Applications of Machine Learning provides a high-level understanding of various machine learning algorithms along with modern tools and techniques using Artificial Intelligence. In addition, this book explores the critical role that machine learning plays in a variety of professional fields including healthcare, business, and computer science. While highlighting topics including image processing, predictive analytics, and smart grid management, this book is ideally designed for developers, data scientists, business

analysts, information architects, finance agents, healthcare professionals, researchers, retail traders, professors, and graduate students seeking current research on the benefits, implementations, and trends of machine learning. Broadcast spectrum is scarce, both in terms of our ability to access existing spectrum and as a result of access rules created by governments. An emerging paradigm called cognitive radio, however, has the potential to allow different systems to dynamically access and opportunistically exploit the same frequency band in an efficient way, thereby allowing broadcasters to use spectrum more efficiently. Cognitive Radio and Interference Management: Technology and Strategy brings together state-of-the-art research results on cognitive radio and interference management from both theoretical and practical perspectives. It serves as a bridge between people who are working to develop theoretical and practical research in cognitive radio and interference management, and therefore facilitate the future development of cognitive radio and its applications. Water And Its Industrial Applications | Fuels And Combustion | Lubricants | Cement And Refractories| Polymers | Instrumental Techniques In Chemical Analysis | Water Analysis Techniques | Question Bank The internet of medical things provides significant advantages for the well-being of society by increasing the quality of life and reducing medical expenses. An important step towards a smart healthcare system is to utilize the potential of existing technologies in order to deliver the best services to users and improve their circumstances. With the help of internet of medical things technologies, self-care and early diagnosis are influential services in strengthening the healthcare ecosystem, especially those which utilize remote monitoring systems. The Internet of Medical Things (IoMT) and Telemedicine Frameworks and Applications focuses on the role of artificial intelligence, the internet of medical things, and telemedicine as well as the advantages and challenges that can occur from the integration of these technologies. The book also evolves methodologies to develop frameworks for the integration of the internet of medical things and telemedicine. Covering topics such as remote healthcare, medical imaging, and data science, this reference work is

ideal for researchers, academicians, scholars, practitioners, instructors, and students. Data has cemented itself as a building block of daily life. However, surrounding oneself with great quantities of information heightens risks to one's personal privacy. Additionally, the presence of massive amounts of information prompts researchers into how best to handle and disseminate it. Research is necessary to understand how to cope with the current technological requirements. Large-Scale Data Streaming, Processing, and Blockchain Security is a collection of innovative research that explores the latest methodologies, modeling, and simulations for coping with the generation and management of large-scale data in both scientific and individual applications. Featuring coverage on a wide range of topics including security models, internet of things, and collaborative filtering, this book is ideally designed for entrepreneurs, security analysts, IT consultants, security professionals, programmers, computer technicians, data scientists, technology developers, engineers, researchers, academicians, and students. While social interactions were once a personal endeavor, more contact is now done virtually. Mobile technologies are an ever-expanding area of research which can benefit users on the organizational level, as well as the personal level. Mobile Platforms, Design, and Apps for Social Commerce is a critical reference source that overviews the current state of personal digital technologies and experiences. Highlighting fascinating topics such as M-learning applications, social networks, mHealth applications and mobile MOOCs, this publication is designed for all academicians, students, professionals, and researchers that are interested in discovering more about how the use of mobile technologies can aid in human interaction. As the Internet becomes increasingly interconnected with modern society, the transition to online business has developed into a prevalent form of commerce. While there exist various advantages and disadvantages to online business, it plays a major role in contemporary business methods. Improving E-Commerce Web Applications Through Business Intelligence Techniques provides emerging research on the core areas of e-commerce web applications. While highlighting the use of data mining, search engine optimization,

and online marketing to advance online business, readers will learn how the role of online commerce is becoming more prevalent in modern business. This book is an important resource for vendors, website developers, online customers, and scholars seeking current research on the development and use of e-commerce. Ocean Energy Modeling and Simulation with Big Data: Computational Intelligence for System Optimization and Grid Integration offers the fundamental and practical aspects of big data solutions applied to ocean and offshore energy systems. The book explores techniques for assessment of tidal, wave and offshore wind energy systems. It presents the use of data mining software to simulate systems and Hadoop technology to evaluate control systems. The use of Map Reduce algorithms in systems optimization is examined, along with the application of NoSQL in systems management. Actual data collection through web-based applications and social networks is discussed, along with practical applications of recommendations. Introduces computational methods for processing and analyzing data to predict ocean energy system production, assess their efficiency, and ensure their reliable connection to power grids Covers data processing solutions like Hadoop, NoSQL, Map Reduce and Lambda, discussing their applications in ocean energy for system design and optimization Provides practical exercises that demonstrate the concepts explored in each chapter Risk detection and cyber security play a vital role in the use and success of contemporary computing. By utilizing the latest technological advances, more effective prevention techniques can be developed to protect against cyber threats. Detecting and Mitigating Robotic Cyber Security Risks is an essential reference publication for the latest research on new methodologies and applications in the areas of robotic and digital security. Featuring extensive coverage on a broad range of topics, such as authentication techniques, cloud security, and mobile robotics, this book is ideally designed for students, researchers, scientists, and engineers seeking current research on methods, models, and implementations of optimized security in digital contexts. By applying data analytics techniques and machine learning algorithms to predict disease, medical practitioners

can more accurately diagnose and treat patients. However, researchers face problems in identifying suitable algorithms for pre-processing, transformations, and the integration of clinical data in a single module, as well as seeking different ways to build and evaluate models. The Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning is a pivotal reference source that explores the application of algorithms to making disease predictions through the identification of symptoms and information retrieval from images such as MRIs, ECGs, EEGs, etc. Highlighting a wide range of topics including clinical decision support systems, biomedical image analysis, and prediction models, this book is ideally designed for clinicians, physicians, programmers, computer engineers, IT specialists, data analysts, hospital administrators, researchers, academicians, and graduate and post-graduate students. The development of business intelligence has enhanced the visualization of data to inform and facilitate business management and strategizing. By implementing effective data-driven techniques, this allows for advance reporting tools to cater to company-specific issues and challenges. The Handbook of Research on Advanced Data Mining Techniques and Applications for Business Intelligence is a key resource on the latest advancements in business applications and the use of mining software solutions to achieve optimal decision-making and risk management results. Highlighting innovative studies on data warehousing, business activity monitoring, and text mining, this publication is an ideal reference source for research scholars, management faculty, and practitioners. The Dark Web is a known hub that hosts myriad illegal activities behind the veil of anonymity for its users. For years now, law enforcement has been struggling to track these illicit activities and put them to an end. However, the depth and anonymity of the Dark Web has made these efforts difficult, and as cyber criminals have more advanced technologies available to them, the struggle appears to only have the potential to worsen. Law enforcement and government organizations also have emerging technologies on their side, however. It is essential for these organizations to stay up to date on these emerging technologies, such as computational intelligence, in

order to put a stop to the illicit activities and behaviors presented in the Dark Web. Using Computational Intelligence for the Dark Web and Illicit Behavior Detection presents the emerging technologies and applications of computational intelligence for the law enforcement of the Dark Web. It features analysis into cybercrime data, examples of the application of computational intelligence in the Dark Web, and provides future opportunities for growth in this field. Covering topics such as cyber threat detection, crime prediction, and keyword extraction, this premier reference source is an essential resource for government organizations, law enforcement agencies, non-profit organizations, politicians, computer scientists, researchers, students, and academicians. As the most natural and convenient means of conveying or transmitting information, images play a vital role in our daily lives. Image processing is now of paramount importance in the computer vision research community, and proper processing of two-dimensional (2D) real-life images plays a key role in many real-life applications as well as commercial developments. Intelligent Multidimensional Data and Image Processing is a vital research publication that contains an in-depth exploration of image processing techniques used in various applications, including how to handle noise removal, object segmentation, object extraction, and the determination of the nearest object classification and its associated confidence level. Featuring coverage on a broad range of topics such as object detection, machine vision, and image conversion, this book provides critical research for scientists, computer engineers, professionals, researchers, and academicians seeking current research on solutions for new challenges in 2D and 3D image processing. Design and Optimization of Biogas Energy Systems presents an overview on planning, implementing, assessing and optimizing biogas systems, from fuel conversion to power generation. The book introduces the fundamental elements of bioenergy systems, highlighting the specificities of biogas systems. It discusses the current state of their adoption at a global level and the challenges faced by designers and operators. Methods for sizing, simulating and modeling are discussed, including prefeasibility analysis, available production processes, integration into

hybrid energy systems, and the application of Big Data analysis and game theory concepts. All chapters include real-life examples and exercises to illustrate the topics being covered. The book goes beyond theory to offer practical knowledge of methods to reach solutions to key challenges in the field. This is a valuable resource for researchers, practitioners and graduate students interested in developing smart, reliable and sustainable biogas technologies. Provides an applied approach to biogas systems, from technology fundamentals, to economic and environmental assessment Explores control methods and reliability prediction of each system component, including modeling and simulation with HOMER and MATLAB Discusses the use of Big Data analysis, numerical methods, and Game Theory for plant assessment This book is a collection of peer-reviewed best selected research papers presented at the Second International Conference on Machine Intelligence and Smart Systems (MISS 2021), organized during September 24–25, 2021, in Gwalior, India. The book presents new advances and research results in the fields of machine intelligence, artificial intelligence and smart systems. It includes main paradigms of machine intelligence algorithms, namely (1) neural networks, (2) evolutionary computation, (3) swarm intelligence, (4) fuzzy systems and (5) immunological computation. Scientists, engineers, academicians, technology developers, researchers, students and government officials will find this book useful in handling their complicated real-world issues by using machine intelligence methodologies. As technology continues to develop, the healthcare industry must adapt and implement new technologies and services. Recent advancements, opportunities, and challenges for bio-medical image processing and authentication in telemedicine must be considered to ensure patients receive the best possible care. Advancements in Bio-Medical Image Processing and Authentication in Telemedicine introduces recent advancements, opportunities, and challenges for bio-medical image processing and authentication in telemedicine and discusses the design of high-accuracy decision support systems. Covering key topics such as artificial intelligence, medical imaging, telemedicine, and technology, this premier reference source is ideal for medical

professionals, nurses, policymakers, researchers, scholars, academicians, practitioners, instructors, and students. From transportation to healthcare, IoT has been heavily implemented into practically every professional industry, making these systems highly susceptible to security breaches. Because IoT connects not just devices but also people and other entities, every component of an IoT system remains vulnerable to attacks from hackers and other unauthorized units. This clearly portrays the importance of security and privacy in IoT, which should be strong enough to keep the entire platform and stakeholders secure and smooth enough to not disrupt the lucid flow of communication among IoT entities. Applied Approach to Privacy and Security for the Internet of Things is a collection of innovative research on the methods and applied aspects of security in IoT-based systems by discussing core concepts and studying real-life scenarios. While highlighting topics including malware propagation, smart home vulnerabilities, and bio-sensor safety, this book is ideally designed for security analysts, software security engineers, researchers, computer engineers, data scientists, security professionals, practitioners, academicians, and students seeking current research on the various aspects of privacy and security within IoT. Modern society exists in a digital era in which high volumes of multimedia information exists. To optimize the management of this data, new methods are emerging for more efficient information retrieval. Web Semantics for Textual and Visual Information Retrieval is a pivotal reference source for the latest academic research on embedding and associating semantics with multimedia information to improve data retrieval techniques. Highlighting a range of pertinent topics such as automation, knowledge discovery, and social networking, this book is ideally designed for researchers, practitioners, students, and professionals interested in emerging trends in information retrieval. For B.E. First year Semester I (all branches) strictly according to the syllabus of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) and all Engineering Colleges affiliated to Ravi Shankar University, Raipur(Chattisgarh) Cloud computing has quickly become the next big step in security development for companies and institutions all over the world. With the technology

changing so rapidly, it is important that businesses carefully consider the available advancements and opportunities before implementing cloud computing in their organizations. The Handbook of Research on Security Considerations in Cloud Computing brings together discussion on current approaches to cloud-based technologies and assesses the possibilities for future advancements in this field. Highlighting the need for consumers to understand the unique nature of cloud-delivered security and to evaluate the different aspects of this service to verify if it will meet their needs, this book is an essential reference source for researchers, scholars, postgraduate students, and developers of cloud security systems. Tidal Energy Systems: Design, Optimization and Control provides a comprehensive overview of concepts, technologies, management and the control of tidal energy systems and tidal power plants. It presents the fundamentals of tidal energy, including the structure of tidal currents and turbulence. Technology, principles, components, operation, and a performance assessment of each component are also covered. Other sections consider pre-feasibility analysis methods, plant operation, maintenance and power generation, reliability assessment in terms of failure distribution, constant failure rate and the time dependent failure model. Finally, the most recent research advances and future trends are reviewed. In addition, applicable real-life examples and a case study of India's tidal energy scenario are included. The book provides ocean energy researchers, practitioners and graduate students with all the information needed to design, deploy, manage and operate tidal energy systems. Senior undergraduate students will also find this to be a useful resource on the fundamentals of tidal energy systems and their components. Presents the fundamentals of tidal energy, including system components, pre-feasibility analysis, and plant management, operations and control Explores concepts of sustainability and a reliability analysis of tidal energy systems, as well as their economic aspects and future trends Covers the assessment of tidal energy systems by optimization technique and game theory In recent years, industries have transitioned into the digital realm, as companies and organizations are adopting certain forms

of technology to assist in information storage and efficient methods of production. This dependence has significantly increased the risk of cyber crime and breaches in data security. Fortunately, research in the area of cyber security and information protection is flourishing; however, it is the responsibility of industry professionals to keep pace with the current trends within this field. The Handbook of Research on Cyber Crime and Information Privacy is a collection of innovative research on the modern methods of crime and misconduct within cyber space. It presents novel solutions to securing and preserving digital information through practical examples and case studies. While highlighting topics including virus detection, surveillance technology, and social networks, this book is ideally designed for cybersecurity professionals, researchers, developers, practitioners, programmers, computer scientists, academicians, security analysts, educators, and students seeking up-to-date research on advanced approaches and developments in cyber security and information protection. Decision Science and Operations Management of Solar Energy System looks beyond developing a solar power plant by also considering the requirements necessary to manage effective power plant operation for the long-term. This book includes data of solar power plants and quantitative techniques of statistical analysis used to inform decision-making for solar energy systems, thus enabling readers to predict future individual solar power system forecasts using different technical and financial parameters. Including data visualization, descriptive statistics, sampling techniques, plant layout, manufacturing economics, inventory management and total quality management of solar energy system, this book covers new insights as well as established fundamentals. The detailed information in this reference bridges the gap between theory and practice in the operation of solar energy systems for researchers, professionals and students working in the area of solar and renewable energy. Features a pre-feasibility assessment of a solar system by data visualization Details the technical parameters of a solar system by probability and sampling techniques Analyzes the relationship between different parameters of a solar system This book comprises the proceedings of the International Conference on Machine Vision and

Augmented Intelligence (MAI 2021) held at IIIT, Jabalpur, in February 2021. The conference proceedings encapsulate the best deliberations held during the conference. The diversity of participants in the event from academia, industry, and research reflects in the articles appearing in the volume. The book theme encompasses all industrial and non-industrial applications in which a combination of hardware and software provides operational guidance to devices in the execution of their functions based on the capture and processing of images. This book covers a wide range of topics such as modeling of disease transformation, epidemic forecast, COVID-19, image processing and computer vision, augmented intelligence, soft computing, deep learning, image reconstruction, artificial intelligence in healthcare, brain-computer interface, cybersecurity, and social network analysis, natural language processing, etc. More individuals than ever are utilizing internet technologies to work from home, teach and learn, shop, interact with peers, review medical records, and more. While it is certainly convenient to conduct such tasks via the internet, this increased internet presence has also led to a rise in the search and availability of personal information, which in turn is resulting in more cyber-attacks, privacy breaches, and information leaks. Cyber criminals are using such opportunities to attack governments, organizations, and individuals, making it necessary to anticipate, assess, and mitigate privacy and security threats during this infodemic. The Handbook of Research on Technical, Privacy, and Security Challenges in a Modern World discusses the design and development of different machine learning systems, including next generation applications, in order to mitigate cyber-attacks and address security challenges in everyday technologies. It further explores select methods and algorithms of learning for implementing better security methods in fields such as business and healthcare. It recognizes the future of privacy and the importance of preserving data through recommended practice, feedback loops, and smart agents. Covering topics such as face mask detection, gesture recognition, and botnet attacks and detection, this major reference work is a dynamic resource for medical professionals, healthcare administrators,

government officials, business executives and managers, IT managers, students and faculty of higher education, librarians, researchers, and academicians. Due to the growing use of web applications and communication devices, the use of data has increased throughout various industries. It is necessary to develop new techniques for managing data in order to ensure adequate usage. The Handbook of Research on Pattern Engineering System Development for Big Data Analytics is a critical scholarly resource that examines the incorporation of pattern management in business technologies as well as decision making and prediction process through the use of data management and analysis. Featuring coverage on a broad range of topics such as business intelligence, feature extraction, and data collection, this publication is geared towards professionals, academicians, practitioners, and researchers seeking current research on the development of pattern management systems for business applications. Wearable Telemedicine Technology for the Healthcare Industry: Product Design and Development focuses on recent advances and benefits of wearable telemedicine techniques for remote health monitoring and prevention of chronic conditions, providing real time feedback and help with rehabilitation and biomedical applications. Readers will learn about various techniques used by software engineers, computer scientists and biomedical engineers to apply intelligent systems, artificial intelligence, machine learning, virtual reality and augmented reality to gather, transmit, analyze and deliver real-time clinical and biological data to clinicians, patients and researchers. Wearable telemedicine technology is currently establishing its place with large-scale impact in many healthcare sectors because information about patient health conditions can be gathered anytime and anywhere outside of traditional clinical settings, hence saving time, money and even lives. Provides readers with methods and applications for wearable devices for ubiquitous health and activity monitoring, wearable biosensors, wearable app development and management using machine learning techniques, and more Integrates coverage of a number of key wearable technologies, such as ubiquitous textile systems for movement disorders, remote surgery using

telemedicine, intelligent computing algorithms for smart wearable healthcare devices, blockchain, and more Provides readers with in-depth coverage of wearable product design and development This book presents recent technologies that explore artificial intelligence (AI) and its scope in Internet of Things (IoT) enabled areas for productivity and the betterment of society. The book aims at targeting audiences of several disciplines to share research, suggest solutions, and future trends in the field of AI using IoT. Rather than looking at the field from only a theoretical or only a practical perspective, this book unifies both aspects to give a holistic understanding of the AI paradigm for IoT. The book focuses on timely topics related to the field of AI enabled IoT applications at large. The book consists of four major parts: fundamentals, theoretical discussion, critical applications, and the learning algorithms. These contents shall include the basics, types, tools, and techniques of AI. Finally, applications of AI enabled IoT in several areas are presented including health, security, climate change, agricultural engineering, bioinformatics, biomedicine, smart applications, natural language processing, social and economic implications of AI enabled IoT, as well as robotics, sustainability, risk management, seismic data processing, smart grid management, text analysis, security, privacy, and ethics. Websites are a central part of today's business world; however, with the vast amount of information that constantly changes and the frequency of required updates, this can come at a high cost to modern businesses. Web Data Mining and the Development of Knowledge-Based Decision Support Systems is a key reference source on decision support systems in view of end user accessibility and identifies methods for extraction and analysis of useful information from web documents. Featuring extensive coverage across a range of relevant perspectives and topics, such as semantic web, machine learning, and expert systems, this book is ideally designed for web developers, internet users, online application developers, researchers, and faculty. The expansion of digital data has transformed various sectors of business such as healthcare, industrial manufacturing, and transportation. A new way of solving business problems has emerged

through the use of machine learning techniques in conjunction with big data analytics. *Deep Learning Innovations and Their Convergence With Big Data* is a pivotal reference for the latest scholarly research on upcoming trends in data analytics and potential technologies that will facilitate insight in various domains of science, industry, business, and consumer applications. Featuring extensive coverage on a broad range of topics and perspectives such as deep neural network, domain adaptation modeling, and threat detection, this book is ideally designed for researchers, professionals, and students seeking current research on the latest trends in the field of deep learning techniques in big data analytics. Industry 5.0 is advancing the collaboration between humans and machines and is finding value through connected virtual and human

experiences. This technological revolution benefits numerous fields; however, the library and information science industry in particular can evolve and expand by embracing Industry 5.0. *The Handbook of Research on Technological Advances of Library and Information Science in Industry 5.0* considers the current research and future trends of technological advances in library and information science related to Industry 5.0. Covering key topics such as robotics, smart libraries, augmented reality, digital libraries, and artificial intelligence, this major reference work is ideal for librarians, industry professionals, researchers, scholars, practitioners, academicians, instructors, and students. *Basic Engineering Mathematics Volume*