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This book meticulously focuses on seeing technological solutions of overtourism on decimated destinations from a comprehensive viewpoint. Considering the present crisis situation, the global tourism industry is in need to formulate revised strategies to recover and to be more resilient. The book creates a platform to deliberate the measures needed to be taken to tackle the issue of this most recent crisis of COVID-19 on the lens of overtourism and technology application. The book adds some unique suggestions to direct a new outlook towards overtourism, technology solutions and decimated destinations. This book discusses the responsibilities of tourists towards decimated destinations as well as provides in-deep knowledge and debates about technological solutions to overtourism in decimated destinations. E-health applications such as tele-medicine, tele-radiology, tele-ophthalmology, and tele-diagnosis are very promising and have immense potential to improve global healthcare. They can improve access, equity, and quality through the connection of healthcare facilities and healthcare professionals, diminishing geographical and physical barriers. One critical issue, however, is related to the security of data transmission and access to the technologies of medical information. Currently, medical-related identity theft costs billions of dollars each year and altered medical information can put a person’s health at risk through misdiagnosis, delayed treatment or incorrect prescriptions. Yet, the use of hand-held devices for storing, accessing, and transmitting medical information is outpacing the privacy and security protections on those devices. Researchers are starting to develop some imperceptible marks to ensure the tamper-proofing, cost effective, and guaranteed originality of the medical records. However, the robustness, security and efficient image archiving and retrieval of medical data information against these cyberattacks is a challenging area for researchers in the field of e-health applications. Intelligent Data Security Solutions for e-Health Applications focuses on cutting-edge academic and industry-related research in this field, with particular emphasis on interdisciplinary approaches and novel techniques to provide security solutions for smart applications. The book provides an overview of cutting-edge security techniques and ideas to help graduate students, researchers, as well as IT professionals who want to understand the opportunities and challenges of using emerging techniques and algorithms for designing and developing more secure systems and methods for e-health applications. Investigates new security and privacy requirements related to eHealth technologies and large sets of applications Reviews how the abundance of digital information on system behavior is now being captured, processed, and used to improve and strengthen security and privacy Provides an overview of innovative security techniques which are being developed to ensure the guaranteed authenticity of transmitted, shared or stored data/information Design-Based Concept Learning in Science and Technology Education brings together contributions from researchers that have investigated what conditions need to be fulfilled to make design-based education work. This volume contains a series of papers originally presented at the symposium on Water Soluble Polymers: Solution Properties and Applications, sponsored by the Division of Colloids and Surface Chemistry of the American Chemical Society. The symposium took place in Las Vegas City, Nevada on 9 to 11th September, 1997 at the 214th American Chemical Society National Meeting. Recognized experts in their - spective fields were invited to speak. There was a strong attendance from academia, g- ernment, and industrial research centers. The purpose of the symposium was to present and discuss recent developments in the solution properties of water soluble polymers and their applications in aqueous systems. Water soluble polymers find applications in a number of fields of which the following may be worth mentioning: cosmetics, detergent, oral care, industrial water treatment, g- thermal, wastewater treatment, water purification and reuse, pulp and paper production, sugar refining, and many more. Moreover, water soluble polymers play vital role in the oil industry, especially in enhanced oil recovery. Water soluble polymers are also used in ag- culture and controlled release pharmaceutical applications. Therefore, a fundamental kno- edge of solution properties of these polymers is essential for most industrial scientists. An understanding of the basic phenomena involved in the application of these polymers, such as adsorption and interaction with different substrates (i. e. , tooth enamel, hair, reverse - mosis membrane, heat exchanger surfaces, etc.) is of vital importance in developing high performance formulations for achieving optimum efficiency of the system. This book gives insight into the emerging semiconductor devices from their applications in electronic circuits. It discusses the challenges in the field of engineering and applications of advanced low-power devices. Emerging Low-Power Semiconductor Devices: Applications for Future Technology Nodes offers essential exposure to low-power devices, and applications in wireless, biosensing, and circuit domains. This book provides a detailed discussion on all aspects, including the current and future scenarios related to the low-power device. The book also presents basic knowledge about field-effect transistor (FET) devices and introduces emerging and novel FET devices. The chapters include a review of the usage of FET devices in various domains like biosensing, wireless, and cryogenics applications. The chapters also explore device-circuit co-design issues in the digital and analog domains. The content is presented in an easy-to-follow manner that makes it ideal for individuals new to the subject. This book is intended for scientists, researchers, and postgraduate students looking for an understanding of device physics, circuits, and systems. In recent years, drones have been integrated with the Internet of Things to offer a variety of exciting new applications. Here is a detailed exploration of adapting and implementing Internet of Drones technologies in real-world applications, emphasizing solutions to architectural challenges and providing a clear overview of standardization and regulation, implementation plans, and privacy concerns. The book discusses the architectures and protocols for drone communications, implementing and deploying of 5G-drone setups, security issues, deep learning techniques applied on real-time footage, and more. It also explores some of the varied applications, such as for monitoring and analysis of troposphere pollutants, providing services and communications in smart cities (such as for weather forecasting, communications, transport, safety and protection), for disaster relief management, for agricultural crop monitoring, and more. This book concentrates on the sustainable applications of the Blockchain Technology across multiple latest computational knowledge domains. It covers the feasible and practical collaboration of Blockchain Technology with latest Sustainable Smart Computing Technologies. It will target the vast applications of Blockchain in the field of Internet of Things, Artificial Intelligence, and Cybersecurity. The book effectively provides satisfactory information about the essentials of Blockchain and IoT to a typical pursuer alongside encouraging an examination researcher to distinguish some modern issue regions that rise up out of the intermingling of the two advancements. Besides, the creators talk about pertinent application zones, for example, smart city, e-social insurance, and so forth along the course of the book. • Covers the recent advancements in Blockchain technology • Discusses the applications of Blockchain technology for real life problems • Address the challenges related to implementation of Blockchain technology • Includes case studies • Includes the latest trends and area of research in Blockchain Technology This book is primarily aimed at graduates, researchers and professions working in the field of blockchain technology. The continuous increase in human activities affects the environment in notable ways; these effects need to be monitored and controlled when appropriate to ensure the sustainability of our lives. Environmental pollution is one of the major problems associated with human activities as a result of routine and accidental releases. Currently, pollution prevention, control, and affected environment remediation receive great attention globally. This attention has led to a continuous increase in research efforts that aim to understand, simulate, and predict important processes that affect pollutant generation and migration. Optimization of chemical and physical reactions within different waste treatment technologies and remediation projects are the focus of many research projects worldwide. This book presents some kinetic models that could be used to support pollution prevention, control, and environmental assessments of human activities. This book constitutes the refereed proceedings of the Fourth International Conference on Futuristic Trends in Network and Communication Technologies, FTNCT 2021. The prime aim of the conference is to invite researchers from different domains of network and communication technologies to a single platform to showcase their research ideas. The selected papers are organized in topical sections on network and computing technologies; wireless networks and Internet of Things (IoT); futuristic computing technologies; communication technologies, security, and privacy. The volume will serve as a reference resource for researchers and practitioners in academia and industry. This reference places the latest information at users' fingertips, and a more streamlined format makes it easy to find the exact information quickly and conveniently. Includes access to a companion Web site for additional resources. This textbook is a second edition of Evolutionary Algorithms for Solving Multi-Objective Problems, significantly expanded and adapted for the classroom. The various features of multi-objective evolutionary algorithms are presented here in an innovative and student-friendly fashion, incorporating state-of-the-art research. The book disseminates the application of evolutionary algorithm techniques to a variety of practical problems. It contains exhaustive appendices, index and bibliography and links to a complete set of teaching tutorials, exercises and solutions. This book gathers extended versions of the best papers presented at the Global Joint Conference on Industrial Engineering and Its Application Areas (GJCIE), held in Nevsehir, Turkey, on June 21-22, 2018. They reports on industrial engineering methods and applications, with a special focus on the advantages and challenges posed by Big data in this field. The book covers a wide range of topics, including decision making, optimization, supply chain management and quality control. This book is a compilation of writings focused on conventional and unconventional insect products. Some of these products are commercial successes, while others are waiting to be launched and are the potential produce of the future. In addition to the well known products honey, mulberry silk, and lac, the book primarily concentrates on silk producing insects other than the mulberry silkworm, insects as food, as sources of medicines, pest and weed managers, and as pollinators. The book highlights the all pervasive role of insects in improving human lives at multiple levels. Accordingly, while most books on insects concentrate on how to limit growth in their population, it instead focuses on how to propagate them. In each chapter, the book brings to the fore how insects are far more beneficial to us than their well publicised harmful roles. This book approaches both unconventional and conventional insect products, such as honey, silk and lac in much more depth than the available literature. It investigates different aspects of the production of these insects, such as the related processes, problems and utilities, in dedicated chapters. Because this book deals with the production of insects or their produce, it has been named Industrial Entomology, perhaps the only book that truly reveals the tremendous potential of insects to help humans live better lives. Based on the research and working experience of the contributors, who are global experts in their respective fields, it provides authentic, authoritative and updated information on these topics. The book offers a unique guide for students, teachers, policy planners, small scale industrialists, and government ministries of agriculture and industry across the globe. It will provide a much required stimulus to insect appreciation and generate enthusiasm for research and the broader acceptance for insect produce. Hopefully, it will also present the Indian perspective on these topics to a global readership. This volume contains selected papers presented at the 10th International Conference on Advanced Computing and Communication Technologies (10th ICACCT 2016), technically sponsored by Institution of Electronics and Telecommunication Engineers (India), held during 18 – 20 November 2016 at Asia Pacific Institute of Information Technology, Panipat, India. The volume reports latest research on a wide range of topics spanning theory, system, applications and case studies in the fields of computing and communication technologies. Topics covered are robotics, computational intelligence encompassing fuzzy logic, neural networks, GA and evolutionary computing, applications, knowledge representation, data encryption, distributed computing, data analytics and visualization, knowledge representation, wireless sensor networks, MEM sensor design, analog circuit, statistical machine translation, cellular automata and antenna design. The volume has 31 chapters, including an invited paper on swarm robotics, grouped into three parts, viz., Advanced Computing, Communication Technologies, and Micro Electronics and Antenna Design. The volume is directed to researchers and practitioners aspiring to solve practical issues, particularly applications of the theories of computational intelligence, using recent advances in computing and communication technologies. Natural gums are polysaccharides consisting of multiple sugar units linked together via glycosidic linkages. Most natural gums reveal appropriate safety for oral consumption in the form of food additives or drug carriers. Challenges related to the utilization of natural polysaccharides, however, include uncontrolled rates of hydration, pH dependent solubility, viscosity reduction during storage, and weak interfacial properties. Modification provides an efficient route for not only removing such drawbacks but also improving physicochemical properties, such as solubility, viscosity and swelling index, and introducing new properties for varied applications.This book provides a comprehensive review of the various modifications on gums to make them suitable for food, cosmetic and pharmaceutical industries. The book is divided in four parts: an introduction to natural gums followed by in-depth coverage of chemical modification, physical modification, and enzymatic modification of gums. Each chapter includes reaction mechanisms, physicochemical properties, rheological properties, interfacial properties, applications and future perspectives. Presenting a succinct account on gum modification from a practical point of view, this book is a helpful reference for academic and industrial scientists and engineers in food technology, materials chemistry, pharmaceuticals, chemical, industrial, and applied engineering, biochemistry, and biopolymers. In the last decade, opinion mining has been explored by using various machine learning methods. In the literature, document-level sentiment analysis has been majorly dealt with short-sized text only. For large-sized text, document-level sentiment analysis has never been dealt. In this paper, a hybrid framework named as ‘‘Senti-NSetPSO’’ is proposed to analyse large-sized text. Senti-NSetPSO comprises of two classifiers: binary and ternary based on hybridization of particle swarm optimization (PSO) with Neutrosophic Set. This method is suitable to classify large-sized text having more than 25 kb of size. Swarm size generated from large text can give a suitable measurement for implementation of PSO convergence. The proposed approach is trained and tested for large-sized text collected from Blitzer, aclIMDb, Polarity and Subjective Dataset. The proposed method establishes a co-relation between sentiment analysis and Neutrosophic Set. On Blitzer, aclIMDb and Polarity dataset, the model acquires satisfactory accuracy by ternary classifier. The accuracy of ternary classifier of the proposed framework shows significant improvement than review paper classifier present in the literature. Meyler's Side Effects of Drugs: The International Encyclopedia of Adverse Drug Reactions and Interactions, Sixteenth Edition builds on the success of the 15 previous editions, providing an extensively reorganized and expanded resource that now comprises more than 1,500 individual drug articles with the most complete coverage of adverse reactions and interactions found anywhere. Each article contains detailed and authoritative information about the adverse effects of each drug, with comprehensive references to the primary literature, making this a must-have reference work for any academic or medical library, pharmacologist, regulatory organization, hospital dispensary, or pharmaceutical company. The online version of the book provides an unparalleled depth of coverage and functionality by offering convenient desktop access and enhanced features such as increased searchability, extensive internal cross-linking, and fully downloadable and printable full-text, HTML or PDF articles. Enhanced encyclopedic format with drug monographs now organized alphabetically Completely expanded coverage of each drug, with more than 1,500 drug articles and information on adverse reactions and interactions Clearer, systematic organization of information for easier reading, including case histories to provide perspective on each listing Extensive bibliography with over 40,000 references A must-have reference work for any academic or medical library, pharmacologist, regulatory organization, hospital dispensary, or pharmaceutical company This book presents an exhaustive review on the use of polymers for food applications. Polymer-based systems for food applications such as: films, foams, nano- and micro-encapsulated, emulsions, hydrogels, prebiotics, 3D food printing, edible polymers for the development of foods for people with special feeding regimes, sensors, among others, have been analyzed in this work. A comprehensive discussion of various types of

nanoengineered biomaterials and their applications In Nanoengineering of Biomaterials: Drug Delivery & Biomedical Applications, an expert team of chemists delivers a succinct exploration of the synthesis, characterization, in-vitro and in-vivo drug molecule release, pharmacokinetic activity, pharmacodynamic activity, and the biomedical applications of several types of nanoengineered biomaterials. The editors have also included resources to highlight the most current developments in the field. The book is a collection of valuable and accessible reference sources for researchers in materials chemistry and related disciplines. It uses a functions-directed approach to using organic and inorganic source compounds that translate into biological systems as scaffolds, micelles, dendrimers, and other delivery systems. Nanoengineering of Biomaterials offers readers up-to-date chemistry and material science insights that are readily transferrable to biomedical systems. The book also includes: Thorough introductions to alginate nanoparticle delivery of therapeutics and chitosan-based nanomaterials in biological applications Comprehensive explorations of nanostructured carrageenan as a drug carrier, gellan gum nanoparticles in drug delivery, and guar-gum nanoparticles in the delivery of bioactive molecules Practical discussions of protein-based nanoparticles for drug delivery, solid lipid nanoparticles as drug carriers, and pH-responsive nanoparticles in therapy In-depth examinations of stimuli-responsive nano carriers in drug targeting Perfect for pharmaceutical chemists, materials scientists, polymer chemists, life scientists, and medicinal chemists, Nanoengineering of Biomaterials: Drug Delivery and Biomedical Applications is also an indispensable resource for biologists and bioengineers seeking a one-stop reference on the transferability of materials chemistry and nanotechnology to biomedicine. Provides well-written self-contained chapters, including problem sets and exercises, making it ideal for the classroom setting; Introduces applied optimization to the hazardous waste blending problem; Explores linear programming, nonlinear programming, discrete optimization, global optimization, optimization under uncertainty, multi-objective optimization, optimal control and stochastic optimal control; Includes an extensive bibliography at the end of each chapter and an index; GAMS files of case studies for Chapters 2, 3, 4, 5, and 7 are linked to <http://www.springer.com/math/book/978-0-387-76634-8>; Solutions manual available upon adoptions. The book presents high-quality research papers presented at the first international conference, ICICCD 2016, organised by the Department of Electronics, Instrumentation and Control Engineering of University of Petroleum and Energy Studies, Dehradun on 2nd and 3rd April, 2016. The book is broadly divided into three sections: Intelligent Communication, Intelligent Control and Intelligent Devices. The areas covered under these sections are wireless communication and radio technologies, optical communication, communication hardware evolution, machine-to-machine communication networks, routing techniques, network analytics, network applications and services, satellite and space communications, technologies for e-communication, wireless Ad-Hoc and sensor networks, communications and information security, signal processing for communications, communication software, microwave informatics, robotics and automation, optimization techniques and algorithms, intelligent transport, mechatronics system, guidance and navigation, algorithms, linear/non-linear control, home automation, sensors, smart cities, control systems, high performance computing, cognition control, adaptive control, distributed control, prediction models, hybrid control system, control applications, power system, manufacturing, agriculture cyber physical system, network control system, genetic control based, wearable devices, nano devices, MEMS, bio-inspired computing, embedded and real-time software, VLSI and embedded systems, FPGA, digital system and logic design, image and video processing, machine vision, medical imaging, and reconfigurable computing systems. This book addresses the wide range of issues that face the program leader – from how to choose a site and how to negotiate for equipment, to how to determine staffing requirements and how to anticipate and defuse possible turf issues with other programs and services in the hospital or healthcare facility. The early chapters of this book focus on the leadership of your program whether in your department or institution. The second section centers on education at all levels recognizing that smaller machines have made ultrasound available for medical students to advanced practitioners. The third section provides detailed logistics on equipment, maintenance, and safety. The fourth section focuses on a quality improvement program and includes a chapter on the workflow process. For those with limited budgets we also offer a section on practical operating and educational solutions. The fifth section offers insight into hospital level credentialing, quality assurance, national politics, and recent issues with accreditation. This is followed by reimbursement and coding. The last section covers topics in specialized communities. Chapters focus on ultrasound in global health, emergency medical services, pediatrics, critical care, community and office based practices. Multiple US working documents including checklists, graphs, spreadsheets, tables, and policy appendices are included. Provides well-written self-contained chapters, including problem sets and exercises, making it ideal for the classroom setting; Introduces applied optimization to the hazardous waste blending problem; Explores linear programming, nonlinear programming, discrete optimization, global optimization, optimization under uncertainty, multi-objective optimization, optimal control and stochastic optimal control; Includes an extensive bibliography at the end of each chapter and an index; GAMS files of case studies for Chapters 2, 3, 4, 5, and 7 are linked to <http://www.springer.com/math/book/978-0-387-76634-8>; Solutions manual available upon adoptions. Including Proceedings of the Science & Technology Society, Kanpur. Profiles of Drug Substances, Excipients and Related Methodology The book includes papers on a wide range of emerging research topics spanning theory, systems and applications of computing and communication technologies viz. Nonlinear Dynamics in Cryptography, Discrete domain Swarm Robotics, Machine Learning, Facility Layout Problem, Crowdfunding Projects, Deep Learning, MHD Nanofluid Flow, Medical Diagnostics, Human Computer Interface, Social Networking, System Performance, Wireless Sensor Networks, Cognitive Radio Networks, Antenna Design etc.; presented at the 11th International Conference on Advanced Computing and Communications Technologies (11th ICACCT 2018) held on 17-18 February, 2018 at Asia Pacific Institute of Information Technology, Panipat, India. This book introduces readers to essential advances in the application of physical processing technology in food processing that have been made in recent years. It analyzes and describes the application of Power Ultrasound, Pulsed Electric Field, Supercritical-CO₂, and Infrared Heating in the contexts of food sterilization, extraction, modification, drying and safety control. Covering all aspects of food physical processing, from basic principles to the latest technological developments, it offers a valuable application guide for food engineers and food researchers alike. In this book, the authors highlight recent findings that hold the potential to improve software products or development processes; in addition, they help readers understand new concepts and technologies, and to see what it takes to migrate from old to new platforms. Some of the authors have spent most of their careers in industry, working at the frontiers of practice-based innovation, and are at the same time prominent researchers who have made significant academic contributions. Others work together with industry to test, in industrial settings, the methods they’ve developed in the lab. The choice of subject and authors represent the key elements of this book. Its respective chapters cover a wide range of topics, from cloud computing to agile development, applications of data science methods, re-engineering of aging applications into modern ones, and business and requirements engineering. Taken together, they offer a valuable asset for practitioners and researchers alike. The Side Effects of Drugs Annual was first published in 1977. It has been continually published since then as a yearly update to the voluminous encyclopedia, Meyler’s Side Effects of Drugs. Each new Annual continues to provide clinicians and medical investigators with a reliable and critical yearly survey of new data and trends in the area of adverse drug reactions and interactions. An international team of specialists has contributed to the informative Annual by critically interpreting it and by pointing to whatever is misleading. Provides a critical yearly survey of new data and trends Special reviews in this Annual include, among other topics, epidemiology of the use of ecstasy, paracetamol and the risk of asthma, combination vaccines/multiple immunizations, interactions of herbal medicines with warfarin, and tyrosine kinase inhibitors This book serves as a quick guide on the latest material systems including their synthesis, fabrication and characterization techniques. It discusses recent developments in different material systems and discusses their novel applications in various branches of science and engineering. The book briefs latest computational tools and techniques that are used to discover new material systems. The book also briefs applications of new emerging materials in various fields including, healthcare, sensors, opto-electronics, high power devices and nano-electronics. This book helps to create a synergy between computational and experimental research methods to better understand a particular material system. This book covers a domain that is significantly impacted by the growth of soft computing. Internet of Things (IoT)-related applications are gaining much attention with more and more devices which are getting connected, and they become the potential components of some smart applications. Thus, a global enthusiasm has sparked over various domains such as health, agriculture, energy, security, and retail. So, in this book, the main objective is to capture this multifaceted nature of IoT and machine learning in one single place. According to the contribution of each chapter, the book also provides a future direction for IoT and machine learning research. The objectives of this book are to identify different issues, suggest feasible solutions to those identified issues, and enable researchers and practitioners from both academia and industry to interact with each other regarding emerging technologies related to IoT and machine learning. Containing the state-of-the-art in hydrodynamic cavitation, the book consists of two parts. The first part presents the physical basis of cavitation and a systematic classification of various kinds of cavitation and their formation sources. Special attention is paid to a group of factors that promote cavitation formation in natural liquids. A gener Mobile ad-hoc networks have attracted considerable attention and interest from the commercial sector as well as the standards community. Many new ad-hoc networking applications have been conceived to help enable new commercial and personal communication beyond the domain of tactical networks, including personal area networking, home networking, law enforcement operations, search and rescue operations, commercial and educational applications, and sensor networks. Emerging Technologies in Wireless Ad-hoc Networks: Applications and Future Development provides the rationale, state-of-the-art studies and practical applications, proof-of-concepts, experimental studies, and future development on the use of emerging technologies in wireless ad-hoc networks. In addition, this work explores emerging wireless ad hoc technologies based on communication coverage areas: body sensor networks, personal area networks, local area networks, and metropolitan area networks and their applications in critical sectors, for example, agriculture, environment, public health and public transportation.

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