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2021-04-05

## RHODES YOSEF

Computation and Communication Technologies IGI Global

**MEDICAL IMAGING** Written and edited by a team of experts in the field, this is the most comprehensive and up-to-date study of and reference for the practical applications of medical imaging for engineers, scientists, students, and medical professionals. Medical imaging is one of the most important diagnostic tools in healthcare. More than 50% of the clinical market depends on diagnostic imaging to identify different pathological conditions in subjects. It is, therefore, essential for healthcare personnel and paramedical staff as well as the technicians and the supporting engineers to understand the basics of medical imaging. This subject is of utmost importance to every individual involved in the healthcare industry, right from research and development until application and service. Medical Imaging presents the salient aspects of diagnostic imaging modalities. The subjects that are covered are the basic functional principles, the concepts involved, the instrumentation-based aspects, applications, and the latest trends in imaging modalities. This book concentrates on X-rays imaging, computer tomography-based imaging, ultrasound techniques, radionuclide imaging, MRI techniques, and other important diagnostic modalities which are commonly used for medical diagnosis of various pathologies in human beings. Covering all of the latest advances, innovations, and developments in practical applications for medical imaging, this volume represents the most comprehensive, up-to-date coverage of the issues of the day and state of the art. Whether for the veteran engineer or scientist or a student, this volume is a must-have for any library.

*Handbook of Research on Strategic Supply Chain Management in the Retail Industry* IGI Global

This conference proceedings summarizes invited publications from the two IDES (Institute of Doctors Engineers and Scientists) International conferences, both held in Bangalore/ India.

**3D Printing Technology** Springer Nature

This book gathers selected papers presented at the Inventive Communication and Computational Technologies conference (ICICT 2019), held on 29–30 April 2019 at Gnanamani College of Technology, Tamil Nadu, India. The respective contributions highlight recent research efforts and advances in a new paradigm called ISMAC (IoT in Social, Mobile, Analytics and Cloud contexts). Topics covered include the Internet of Things, Social Networks, Mobile Communications, Big Data Analytics, Bio-inspired Computing and Cloud Computing. The book is chiefly intended for academics and practitioners working to resolve practical issues in this area.

**Antenna Architectures for Future Wireless Devices** Springer

The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.

*Handbook of Research on Applied Intelligence for Health and Clinical Informatics* I. K. International Pvt Ltd

Customer satisfaction is a pivotal component to any business that provides goods or services to the public. By effectively managing the flow of products, business can adapt to the growing demands of consumers and deliver successful customer service. The Handbook of Research on Strategic Supply Chain Management in the Retail Industry is an authoritative reference source for the latest scholarly research on properly managing business processes in order to satisfy end-user requirements and increase competitive advantage in the retail marketplace. Highlighting concepts relating to field applications, customer relationships, and current trends in logistics management, this book is ideally designed for business professionals, managers, upper-level students, and researchers interested in innovative strategies and best practices in modern supply chains.

Handbook of Evidence Based Management Practices in Business John Wiley & Sons

Using the same strategy for the needs of image processing and pattern recognition, scientists and researchers have turned to computational intelligence for better research throughputs and end results applied towards engineering, science, business and financial applications. Handbook of Research on Computational Intelligence for Engineering, Science, and Business discusses the computation intelligence approaches, initiatives and applications in the engineering, science and business fields. This reference aims to highlight computational intelligence as no longer limited to computing-related disciplines and can be applied to any effort which handles complex and meaningful information.

*Handbook of Research on Investigations in Artificial Life Research and Development* Walter de Gruyter GmbH & Co KG

This book offers a design research methodology intended to improve the quality of design research-its academic credibility, industrial significance and societal contribution by enabling more thorough, efficient and effective procedures.

**Wideband, Multiband, and Smart Antenna Systems** Atlantic Publishers & Dist

Analytical Applications of Graphene for Comprehensive Analytical Chemistry, Volume 91 in the Comprehensive Analytical Chemistry series, highlights new advances in the field, with this new volume presenting interesting chapters on a variety of interesting topics, including Graphene based Nanocomposites: Synthesis, Properties and Application as Electrochemical Sensors, Graphene based Sample Preparation Techniques, Graphene Based Sample Preparation Techniques, Graphene-based thin film nanocomposite membranes for separation and purification, Analytical Applications of

Graphene Oxide for Membrane Processes as Separation and Concentration Methods, Physico-chemically Functionalized Hybrid Graphene Derivatives for Miniaturized Microfluidics and Biotransducer Platform, and much more. Other chapters cover Graphene-based chemiresistive gas sensors, Graphene based Sensors, Applications of graphene-based sensors for biomedical industries, Point of care applications with graphene in human life, Ethical, Legal, Social & Economics Issues of Graphene, Safety and toxicity concerns of graphene and its composites, and the Future of Analytical Chemistry with Graphene. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Comprehensive Analytical Chemistry series Contains the latest information on the analytical applications of graphene for analytical chemistry

**Handbook of Research on Digital Content Management and Development in Modern Libraries** Springer Science & Business Media

In today's market, emerging technologies are continually assisting in common workplace practices as companies and organizations search for innovative ways to solve modern issues that arise. Prevalent applications including internet of things, big data, and cloud computing all have noteworthy benefits, but issues remain when separately integrating them into the professional practices. Significant research is needed on converging these systems and leveraging each of their advantages in order to find solutions to real-time problems that still exist. Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing is a pivotal reference source that provides vital research on the relation between these technologies and the impact they collectively have in solving real-world challenges. While highlighting topics such as cloud-based analytics, intelligent algorithms, and information security, this publication explores current issues that remain when attempting to implement these systems as well as the specific applications IoT, big data, and cloud computing have in various professional sectors. This book is ideally designed for academicians, researchers, developers, computer scientists, IT professionals, practitioners, scholars, students, and engineers seeking research on the integration of emerging technologies to solve modern societal issues.

Medical Imaging IGI Global

The volume, complexity, and irregularity of computational data in modern algorithms and simulations necessitates an unorthodox approach to computing. Understanding the facets and possibilities of soft computing algorithms is necessary for the accurate and timely processing of complex data. Research Advances in the Integration of Big Data and Smart Computing builds on the available literature in the realm of Big Data while providing further research opportunities in this dynamic field. This publication provides the resources necessary for technology developers, scientists, and policymakers to adopt and implement new paradigms in computational methods across the globe. The chapters in this publication advance the body of knowledge on soft computing techniques through topics such as transmission control protocol for mobile ad hoc networks, feature extraction, comparative analysis of filtering techniques, big data in economic policy, and advanced dimensionality reduction methods.

*Nanostructured Materials for Environmental Applications* Springer

This is an open access book. The first international Conference on Advances in Computer Vision and Artificial Intelligence Technologies (ACVAIT 2022) is a biennial conference organized by Department of Computer Science and Information Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (MS) India, during August 1–2, 2022. ACVAIT 2022, is dedicated towards advances in the theme areas of Computer Vision, Image Processing, Pattern Recognition, Artificial Intelligence, Machine Learning, Human Computer Interactions, Biomedical Image Processing, Geospatial Technology, Hyperspectral image processing and allied technologies but not limited to. ACVAIT 2022, invites young and/or advanced researchers contributing in the theme area of the conference and also provide them platform for discussing their scientific contributions / research findings with the domain experts, exchange ideas with them and foster closer collaboration between members from the top universities / Higher Education Institutes (HEI). ACVAIT 2022, inviting domain specific work from research scholars, academicians, machine learning & AI scientist, industry experts to contribute their scientific contribution in the following areas but not limited to. • Shape representation • Biometrics: face matching, iris recognition, footprint verification and many more. • Statistical, Structural and syntactic pattern recognition • Brain Computer Interface and Human Computer Interactions • Feature extraction and reduction • Biomedical Image Processing • Color and texture analysis • Speech analysis and understanding • Image segmentation • Speaker verification & Synthesis • Image compression, coding and encryption • Clustering and classification • Object recognition, scene understanding and video analytics • Machine learning algorithms • Image matching (pattern matching) • Extreme learning machine • Content based image retrieval and indexing • Artificial Intelligence Trends in Deep learning • Optical character recognition • Big data • Image & Video Forensics • Information retrieval • Pattern recognition and machine learning for Internet of Things • Data mining and Data Analytics • Pattern classification through Sensors • Pattern Recognition for Hyper Spectral Imaging • Satellite Image Processing

Literacy Skill Development for Library Science Professionals IGI Global

This book discusses how nanostructured materials play a key role in helping address environmental challenges. Employing nanostructured materials in catalysis can increase the efficient decomposition of toxic pollutants in air, water, and soil. This multidisciplinary book discusses the most promising nanostructured materials made-up of metals, metal oxides, metal chalcogenides, multi-metal oxides, carbon nanostructures, and hybrid materials that can address environmental remediation. It provides a well-referenced introduction to newcomers from allied disciplines and will be valuable to researchers in academia, industry, and government working on solutions to environmental problems.

**The Republic of India** Springer Nature

AIoT (Artificial Intelligence of Things) and Big Data Analytics are catalyzing a healthcare revolution. This book is an accessible volume that summarizes the information available. In this book, researchers explore how AIoT and Big Data can seamlessly integrate into healthcare, enhancing medical services and devices while adhering to established protocols. The book demonstrates the crucial role of these technologies during healthcare crises like the COVID-19 pandemic. It presents novel solutions and computational techniques powered by AIoT, Machine Learning, and Deep Learning, providing a new frontier in healthcare problem-solving. Key Features: Real-Life Illustrations: Real-world examples showcase AIoT and Big Data in action, highlighting their impact in

healthcare. Comprehensive Exploration: The book offers a thorough examination of AIoT, Big Data, and their harmonious synergy within the healthcare landscape. Visual Aids: Complex concepts become approachable through diagrams, flowcharts, and infographics, making technical processes and system designs more digestible. Ethical Insights: Delving into the ethical dimensions of AIoT and Big Data, it addresses concerns like data bias, patient consent, and transparency in healthcare. Forward-Looking Discourse: The book engages with emerging trends, potential innovations, and the future direction of AIoT and Big Data, making it a compass for healthcare transformation. Researchers, whether from academia, industry, or research and development organizations, interested in AIoT, Big Data, artificial intelligence, and healthcare optimization, will find this book informative. It also serves as an update for tech enthusiasts who want to explore the future of healthcare powered by AI and data.

[Proceedings of the First International Conference on Advances in Computer Vision and Artificial Intelligence Technologies \(ACVAIT 2022\)](#) IGI Global

In recent years, wireless communication has become an integral part of daily life, allowing people across the world to communicate with each other easily, regardless of their geographical location. As these technologies develop, innovations are made in the ways in which they are constructed. Emerging trends in smart material usage in wireless technology requires further investigation for the optimization of next-generation communication technology. Innovative Smart Materials Used in Wireless Communication Technology focuses on the advancements of smart material usage in wireless communication technologies. It analyzes the design, usage, and construction of these smart materials for wireless applications. Covering topics such as millimeter wave antennas, semiconductor materials, and wearable applications, this premier reference source is an essential resource for material engineers and scientists, communications scientists, manufacturers, students and educators of higher education, librarians, researchers, and academicians.

[Inventive Communication and Computational Technologies](#) Springer Nature

Novel Nanostructured Materials for Electrochemical Bio-sensing Applications presents a detailed overview into the fabrication of electrochemical bio-sensing devices. The book addresses the challenges and opportunities relating to sustainable and biocompatible sensors from food, water and wearable applications to the various nanostructured biocompatible materials required for sensor fabrication. In addition, it explores the connection between nanomaterials and sensors and takes into consideration different and novel approaches such as toxic materials monitoring and health issues correlated with the use of nanomaterials. Users will find exciting insight into innovations in nanostructured electrochemical biosensing. By providing its audience with fundamentals, limitations, challenges, future perspectives and practical sustainability, this book will serve as a reference source researchers and engineers within analytical chemistry and electrochemistry. Showcases the latest progress in new nanostructured materials, bio-sensing types and applications Provides a comparative vision of electrochemical bio-sensing with other biosensors Discusses the economics, commercialization, toxicity and life line aspects of electrochemical biosensors

[Analytical Applications of Graphene for Comprehensive Analytical Chemistry](#) Taylor & Francis

Nanotechnology in Herbal Medicine: Applications and Innovations details how nanomaterials can be utilized to improve the therapeutic mechanisms and key properties of herbal drugs. This book guides the reader through the preparation, properties, applications, benefits and challenges of herbal nanoformulations, helping them solve fundamental and applied problems in the area of novel herbal medicines and drug delivery systems. Herbal drugs play a large role in traditional medicines, which are actively used by many cultures across the globe for the treatment of various illnesses and injuries. Despite their widespread use, herbal medicines may lead to possible health risks due to the lack of information on the chemical composition and permitted dosage. Covers a range of nanomaterial types for use in herbal medicine, including polymeric, metallic, carbon-based and magnetic nanoparticles, as well as dendrimers, liposomes, nanogels, and more Explores the variety of biomedical applications for herbal nanoformulations, such as in cancer therapy, cardiovascular disease and wound healing Weighs up the advantages and disadvantages of using nanotechnology in herbal medicine, with a focus on toxicological impact

[CISF Constable Recruitment Exam 2022 | 1500+ Solved Objective Questions \(10 Full-length Mock Tests + 8 Sectional Tests\)](#) CRC Press

This book discusses antenna designs for handheld devices as well as base stations. The book serves as a reference and a handy guide for graduate students and PhD students involved in the field of millimeter wave antenna design. It also gives insights to designers and practicing engineers who are actively engaged in design of antennas for future 5G devices. It offers an in-depth study, performance analysis and extensive characterization of novel antennas for 5G applications. The

reader will learn about basic design methodology and techniques to develop antennas for 5G applications including concepts of path loss compensation, co-design of commercial 4G antennas with millimeter wave 5G antennas and antennas used in phase array and pattern diversity modules. Practical examples included in the book will help readers to build high performance antennas for 5G subsystems/systems using low cost technology. Key Features Provides simple design methodology of different antennas for handheld devices as well as base stations for 5G applications. Concept of path loss compensation introduced. Co-design of commercial 4G antennas with millimetre wave 5G antennas presented. Comparison of phased array versus pattern diversity modules discussed in detail. Fabrication and Measurement challenges at mmWaves and Research Avenues in antenna designs for 5G and beyond presented. Shibani Kishen Koul is an emeritus professor at the Centre for Applied Research in Electronics at the Indian Institute of Technology Delhi. He served as the chairman of Astra Microwave Products Limited, Hyderabad from 2009-2018. He is a Life Fellow of the Institution of Electrical and Electronics Engineering (IEEE), USA, a Fellow of the Indian National Academy of Engineering (INAE), and a Fellow of the Institution of Electronics and Telecommunication Engineers (IETE). Karthikeya G S worked as an assistant professor in Visvesvaraya technological university from 2013 to 2016 and completed his PhD from the Centre for Applied Research in Electronics at the Indian Institute of Technology Delhi in Dec.2019. He is a member of IEEE-Antenna Propagation Society and Antenna Test and Measurement society.

[Implementing Data Analytics and Architectures for Next Generation Wireless Communications](#) IGI Global

Collection assessment can be defined as the systematic quantitative and qualitative measurement of the degree to which a library's collections meet the library's goals, objectives, and the needs of its users. E-resources are creating new challenges for collection assessment, which require that the collection be measured, analyzed, and judged according to specific criteria for relevancy, size, quality, and use. The Handbook of Research on Digital Content Management and Development in Modern Libraries is a critical scholarly resource that examines collection management and quality within information services. Featuring a wide range of topics such as e-resources, knowledge management, and consortia, this book is ideal for professionals, academicians, academic librarians, researchers, and students in the fields of library and information science, education, computer science, and information technology. Moreover, the book will provide insights and support executives concerned with the management of expertise, knowledge, information, and organizational development in different types of work communities and environments.

[On-Board Design Models and Algorithm for Communication Based Train Control and Tracking System](#) Book Rivers

With the increasing use of information communication technology in education, new skills and competencies among library science professionals are required for them to effectively disseminate necessary information to users. It is essential to equip educators and students with the requisite digital and information literacy competencies. Literacy Skill Development for Library Science Professionals provides emerging research exploring the roles and applications of information literacy and technology within library science and education. Featuring coverage on a broad range of topics such as electronic resources, mobile learning, and social media, this book is ideally designed for librarians, information and communication technology researchers, academicians, and graduate-level students seeking current research on the ability to find, evaluate, use, and share information in library science.

[AIoT and Big Data Analytics for Smart Healthcare Applications](#) Elsevier

The history of 3D printing, also known as additive manufacturing, began as a tool for "rapid prototype development," one of its primary uses. This initial success paved the way for the widespread adoption of 3D printing in industries as varied as manufacturing, medicine, architecture, custom art, design, and many more. This book, 3D Technology, dives into the exciting and varied uses of 3D printing across many fields, from the food and beverage industries to the environmental sciences, biotechnology, medical devices, energy storage, civil engineering, the textile and fashion industries, and many more. Rapid advancements in 3D printing technology are revolutionizing product development and production processes throughout global supply chains. The aerospace and automotive sectors were early adopters of 3D printing; however, the technology has spread to a wide variety of other fields, including jewelry creation, architecture, medicine, storage devices, biotechnology. This book also explores into a wide range of these varied uses, including the several 3D printing techniques, popular materials, etc.. In addition to discussing the background and current state iv of additive manufacturing, this book investigates the potential of 3D printing technology to advance scholarly discourse. The comprehensive coverage of 3D printing's many uses in engineering, technology, and other fields makes this book an invaluable resource.