Transforms Sri Venkateswara College Of Engineering

Complete with online files and updates, this important new volume covers many of the areas in which hybrid information technology is advancing. The book is the thoroughly refereed post-proceedings of the First International Conference on Hybrid Information Technology, held in Korea in 2006. More than 60 revised papers were carefully selected during a second round of reviewing on 235 reports given at the conference, and are presented in extended version in the book.

This book presents high-quality research papers that demonstrate how emerging technologies in the field of intelligent systems can be used to effectively meet global needs. The respective papers highlight a wealth of innovations and experimental results, while also addressing proven IT governance, standards and practices, and new designs and tools that facilitate rapid information flows to the user. The book is divided into five major sections, namely: "Advances in High Performance Computing", "Advances in Machine and Deep Learning", "Advances in Networking and Communication", "Advances in Circuits and Systems in Computing" and "Advances in Control and Soft Computing".

Bioreactors: Sustainable Design and Industrial Applications in Mitigation of GHG Emissions presents and compares the foundational concepts, state-of-the-art design and fabrication of bioreactors. Solidly based on theoretical fundamentals, the book examines various aspects of the commercially available bioreactors, such as construction and fabrication, design, modeling and simulation, development, operation, maintenance, management and target applications for biofuels production and bio-waste management. Emerging issues in commercial feasibility are explored, constraints and pathways for upscaling, and techno-economic assessment are also covered. This book provides researchers and engineers in the biofuels and waste management sectors a clear, at-a-glance understanding of the actual potential of different advanced bioreactors for their requirements. It is a must-have reference for better-informed decisions when selecting the appropriate technology models for sustainable systems development and commercialization.

Indian Economy Has Undergone Great Structural Transformation Since Indepen¬Dence. It Is Necessary To Look Into The Different Aspects Of This Transformation And The Present Volume Aims At Fulfilling This Task.The Planned And Also The Unplanned Growth Of Indian Economy Is Facing Many Pro¬Blems At The Grass-Root And Also At The Topmost Levels. After Looking Into The General Issues Of Structural Transformation, The Book Analyses, Explains And Interprets The Performances, Perspectives And Prospects Of The Primary, Secondary, Tertiary And Social Sectors Of The Indian Economy.Thirtynine Eminent Economists, Edu¬Cationists And Scholars Have Contributed Their Research Papers And Notes For This Work. The Book Will Be Immensely Useful For The Academic, Economic, Political And Social Worlds. It Will Be Of Use For The Planners, Scholars, Researchers And Students Of Economics And Other Social Sciences. It Will Answer Many Questions And Will Raise Further Issues On The Academic And Economic Stage.

Fifth International Conference, ICA 2004, Granada, Spain, September 22-24, 2004, Proceedings

IEEE Workshop on Signal Processing Systems

Sustainable Design and Industrial Applications in Mitigation of Ghg Emissions

Enzyme Inhibition - Environmental and Biomedical Applications

A Social and Cultural History of Insanity in Colonial North India, 1800–1950s

Remote Work and Sustainable Changes for the Future of Global Business

Waste Biorefinery: Value Addition through Resources Utilization provides scientific and technical information surrounding the most advanced and innovative processing technologies used for the conversion of biogenic waste to biofuels, energy products and biochemicals. The book covers recent developments and achievements in the field of biochemical, thermo-chemical and hybrid methods and the necessities and potentials generated by different kinds of residual streams, including biomass in presumably more decentralized biorefineries. An assortment of case-studies from developing and developed countries illustrate the topics presented, covering energy, chemicals, fuels, food for animal recovery from different waste matrices, and more. Finally, the advantages and limitations of different technologies are discussed, considering local energy demand, government policies, environmental impacts and education in bioenergy. This book will serve as an excellent resource for science graduates, chemical engineers, environmental engineers, biotechnologists and industrial experts in these areas. Provides information on the most advanced and innovative processes for biomass conversion Covers information on biochemical and thermochemical processes and product developments surrounding the principles of biorefining Presents information on the integration of processes and technologies for the production of biofuels, energy products and biochemicals

Global Perspectives on the Holocaust: History, Identity and Legacy expands coverage of the Holocaust from the traditional focus upon Europe to a worldwide and interdisciplinary perspective. Articles by historians, political scientists, educators, and geographers, as well as scholars in religious studies, international relations, art history, film and literature are included in this volume. Contributors include Gerhard L. Weinberg, Alexandra Zapruder, and Paul Bartrop, as well as scholars from five continents. The "History" section features new scholarship on the Holocaust in Scandinavia; the p.

This volume constitutes the refereed proceedings of the Second International Conference on Intelligent Information Technologies, ICIIT 2017, held in Chennai, India, in December 2017. The 20 full papers and 7 short papers presented were carefully reviewed and selected from 117 submissions. They feature research on the Internet of Things (IoT) and are organized in the following topical sections: IoT enabling technologies; IoT security; social IoT; web of things; and IoT services and applications.

In many situations found both in Nature and in human-built systems, a set of mixed signals is observed (frequently also with noise), and it is of great scientific and technological relevance to be able to isolate or separate them so that the information in each of the signals can be utilized. Blind source separation (BSS) research is one of the more interesting emerging fields now a days in the field of signal processing. It deals with the algorithms that allow the recovery of the original sources from a set of mixtures only. The adjective "blind" is applied because the purpose is to estimate the original sources without any a priori knowledge about either the sources or the mixing system. Most of the models employed in BSS assume the hypothesis about the independence of the original sources. Under this hypothesis, a BSS problem can be considered as a particular case of independent component analysis(ICA), a linear transformation technique that, starting from a multivariate representation of the data, minimizes the statistical dependence between the components of the representation. It can be claimed that most of the advances in ICA have been motivated by the search for solutions to the BSS problem and, the other way around, advances in ICA have been immediately applied to BSS. ICA and BSS algorithms start from a mixture model, whose parameters are estimated from the observed mixtures. Separation is achieved by applying the inverse mixture model to the observed signals(separating or unmixing model). Mixturem- els usually fall into three broad categories: instantaneous linear models, convolutive models and nonlinear models, the?rstone being the simplest but, in general, not near realistic applications. The development and test of the algorithms can be accomplished through synthetic data or with real-world data. Obviously, the most important aim(and most difficult) is the separation of real-world mixtures. BSS and ICA have strong relations also, apart from signal processing, with other fields such as statistics and artificial neural networks. As long as we can find a system that emits signals propagated through a mean, andthosesignalsarereceivedbyasetofsensorsandthereisaninterestinrecovering the original sources, we have a potential field of application for BSS and ICA. Inside that wide range of applications we can find, for instance: noise reduction applications, biomedical applications, audio systems, telecommunications, and many others. This volume comes out just 20 years after the first contributions in ICA and BSS 1 appeared . Therein after, the number of research groups working in ICA and BSS has been constantly growing, so that nowadays we can estimate that far more than 100 groups are researching in these fields. As proof of the recognition among the scientific community of ICA and BSS developments there have been numerous special sessions and special issues in several well- 1 J. Herault, B. Ans, "Circuits neuronaux à synapses modi?ables: décodage de messages composites para apprentissage non supervise", C.R. de l'Académie des Sciences, vol. 299, no. III-13,pp.525-528,1984

Advances in Computing and Communications, Part IV

VLSI and Parallel Computing for Pattern Recognition and Artificial Intelligence

First International Conference on Computer Science and Information Technology, CCSIT 2011, Bangalore, India, January 2-4, 2011. Proceedings

Shape It

Role of Women Scientists in Social Transformation & Nation Building

Indian Journal of Pure & Applied Physics

There is a void of research and other academic materials to support stakeholders operating within industry and the service sector with respect to their perceptions and experiences of remote work, particularly in the context of global business, sustainability, and change management. As more businesses consider remaining and maintaining a remote workforce, it is of paramount importance that new research be conducted regarding the multifaceted area of remote work and sustainable change for global business. Remote Work and Sustainable Changes for the Future of Global Business raises awareness of the multifaceted area of remote work in the context of sustainable change. In particular, it explores remote technology in an attempt to cope with the changing landscape of work environments amidst global change from a sociotechnical perspective. This book provides insight into the challenges both national and international businesses face during a world crisis. Covering topics such as crisis management, the human cloud, and virtual collaboration, this book is essential to business managers, project managers, business clusters, entrepreneurs, higher education practitioners, faculty and PhD researchers, educational boards, technology vendors and firms, and academic researchers.

This book constitutes the proceedings of the 15th International Conference on Distributed Computing and Internet Technology, ICDCIT 2019, held in Bhubaneswar, India, in January 2019. The 18 full papers and 14 short papers presented together with 5 invited papers were carefully reviewed and selected from 115 submissions. The papers present research in three areas: distributed computing, Internet technologies, and societal applications.

The success of many companies through the assistance of bitcoin proves that technology continually dominates and transforms how economics operate. However, a deeper, more conceptual understanding of how these technologies work to identify innovation opportunities and how to successfully thrive in an increasingly competitive environment is needed for the entrepreneurs of tomorrow. Transforming Businesses With Bitcoin Mining and Blockchain Applications provides innovative insights into IT infrastructure and emerging trends in the realm of digital business technologies. This publication analyzes and extracts information from Bitcoin networks and provides the necessary steps to designing open blockchain. Highlighting topics that include financial markets, risk management, and smart technologies, the research contained within the title is ideal for entrepreneurs, business professionals, managers, executives, academicians, researchers, and business students.

The proposed book emphasizes importance for a library to be flexible to changing needs and to adopt new technologies rapidly. If a library of today wants to achieve success, it must offer high quality service, the best possible satisfaction of requirements, and exhibit great flexibility in its activity. In order to achieve all these goals, it is necessary to attract specialists of a library to solving common problems. Today, people get their information online — often filtered through for-profit platforms. If a book isn't online, it's as if it doesn't exist. Yet much of modern knowledge still exists only on the printed page, stored in libraries. Libraries haven't met this digital demand, stymied by costs, e-book restrictions, policy risks, and missing infrastructure. We now have the technology and legal frameworks to transform our library system. The Internet Archive, working with library partners, proposes bringing millions of books online, through purchase or digitization, starting with the books most widely held and used in libraries and classrooms. With the emergence of new technologies, the traditional library, acting as a medium for sharing information, needs an integral refinement in its processes. This transformation will bring in efficiency and minimize human error in the processes with the help of smart gates, material location finder and smart check-out booth to automate the processes of controlling access, locating items as well as the issuing/returning of materials. However, the changeover to a smart library system might face several challenges like for instance the cost of implementing numerous high-frequency RFID readers at prime locations in the library. Another crucial challenge of this system will be the limitation of the equipment to achieve a more performing system. Highly sophisticated equipment will be required which will largely affect the cost. Smart library focuses on use of technology in a library and is designed to be very collaborative learning environment, where participants are encouraged to contribute ideas and information. Smart library improves traditional and non-traditional library services, improves users' library experience and enhances opportunities for students learning. Libraries are facing increased expectations from users, and challenge of developing technologies including Web 2.0, e-books, digitations and a problem of archiving digital content. Web-based technology provides users and information professionals with powerful and flexible tools for information dissemination.

Humanizing Cities Through Car-Free City Development and Transformation

Indian Science Abstracts

Proceedings, December 18-21, 1997, Bangalore, India

Emerging Trends in Computing and Expert Technology

Metal-organic Frameworks (MOFs) as Catalysts

Proceedings

Curing Madness? focusses on the institutional and non-institutional histories of madness in colonial north India. It proves that 'madness' and its 'cure' are shifting categories which assumed new meanings and significance as knowledge travelled across cultural, medical, national, and regional boundaries. The book examines governmental policies, legal processes, diagnosis and treatment, and individual case histories by looking closely at asylums in Agra, Benaras, Bareilly, Lucknow, Delhi, and Lahore. Rajpal highlights that only a few mentally ill ended up in asylums; most people suffering from insanity were cared for by their families and local vaidyas, ojhas, and pundits. These practitioners of traditional medicine had to reinvent themselves to retain their relevance as Western medical knowledge was widely disseminated in colonial India. Evidence of this is found in the Hindi medical advice literature of the era. Taking these into account Shilpi Rajpal moves beyond asylum-centric histories to examine extensive archival materials gathered from various repositories.

The heavy dependency on private cars has shaped the design of cities. While offering fast, comfortable, and convenient commutes, cars have become the most popular method of transportation, but are also a health crisis due to the toxic emissions they release into the atmosphere as well as the high death toll from traffic accidents. For these reasons, there is a need to minimize the use of cars within cities in favor of greener and humanized urban design that would improve the quality of life and reduce the global threat of climate change. Humanizing Cities Through Car-Free City Development and Transformation is an essential publication that explores the concepts of car-free cities and city humanization as possible solutions to reduce the deteriorating effect on the environment and the community. The publication discusses the urban initiative to implement pedestrianization and humanization of cities and public spaces to promote the concept of car-free living. Featuring coverage on a wide range of topics including city humanization, smart mobility, and urban policies, this book is ideally designed for urban planners, environmentalists, government officials, policymakers, architects, transportation authorities, researchers, academicians, and students.

This book is targeted towards cybersecurity professionals (especially those dealing with cloud security) or any stakeholders dealing with cybersecurity who want to understand the next level of security infrastructure using blockchain. The book's security and privacy analysis help with an understanding of the basics of blockchain, and it explores the quantifying impact of the new attack surfaces introduced by blockchain technologies and platforms. In addition, the book contains relevant and current updates on the topic. It follows a practical approach to help understand how blockchain technology is used to transform cybersecurity solutions.

The rise of technology has proven to be a threat to personal data, cyberspace protection, and organizational security. However, these technologies can be used to enhance the effectiveness of institutional security. Through the use of blockchain and the internet of things (IoT), organizations may combat cybercriminals and better protect their privacy. The Research Anthology on Convergence of Blockchain, Internet of Things, and Security describes the implementation of blockchain and IoT technologies to better protect personal and organizational data as well as enhance overall security. It also explains the tools, applications, and emerging innovations in security and the ways in which they are enhanced by blockchain and IoT. Covering topics such as electronic health records, intrusion detection, and software engineering, this major reference work is an essential resource for business leaders and executives, IT managers, computer scientists, hospital administrators, security professionals, law enforcement, students and faculty of higher education, librarians, researchers, and academicians.

2003 IEEE Conference on Electrical Insulation and Dielectric Phenomena

Transformation Of Knowledge In The Digital Age Environment Through Library

Advances in Hybrid Information Technology

Transforming Cybersecurity Solutions using Blockchain

Issues in Energy Research and Application: 2011 Edition

COIMBATORE SOUTH - 2021

This book presents state-of-the-art environmental remediation processes. Environmental protection and management is a global concern, especially in the context of industrial regions. Over the years, several conventional, engineering-based physicochemical decontamination meth the remediation of polluted sites. However, these methods are expensive and have limited efficiency. Drawing on research and examples from around the world, this book offers a comprehensive review of and insights into green technologies and sustainable remediation alternati emerging importance of nanotechnology, chemo and biosensors, indicator species, microbe-based remediation of organic compounds, and ex-situ remediation methods. Addressing the growing global need for a holistic overview of the environmental remediation of polluted sites, i teachers, researchers, scientists, capacity builders, and policymakers. It also serves as additional reading material for undergraduate and graduate students of biotechnology and environmental sciences.

Recent Developments in Applied Microbiology and Biochemistry, Vol. 2, provides a comprehensive treatment and understanding on application oriented microbial concepts, giving readers insights into recent developments in microbial biotechnology and medical, agricultural and env microbiology. Discusses microbial proteome analyses and their importance in medical microbiology Explores emerging trends in the prevention of current global health problems, such as cancer, obesity and immunity Shows recent approaches in the production of novel enzymes fr samples by enrichment culture and metagenomics approaches Guides readers through the status and recent developments in analytical methods for the detection of foodborne microorganisms

This text on high-performance computing includes coverage of the topics: applications: I/O and compilers: scientific computing: data and file management: interconnection networks: compilers: image and signal processing: distributed systems: algorithms: architecture: and paralle This book covers parallel algorithms and architectures and VLSI chips for a range of problems in image processing, computer vision, pattern recognition and artificial intelligence. The specific problems addressed include vision and image processing tasks, Fast Fourier Transforms, Discrete Cosine Transforms, image compression, polygon matching, template matching, pattern matching, fuzzy expert systems and image rotation. The collection of papers gives the reader a good introduction to the state-of-the-art, while for an expert this serves as a good ref some new contributions in this field. Contents:ENPASSANT: An Environment for Evaluating Massively Parallel Array Architectures for Spatially Mapped Applications (M C Herbordt & C C Weems)A Reconfigurable Architecture for Image Processing and Computer Vision (S M Bhandar Design Methodology for Very Large Array Processors — Part 1: GIPOP Processor Array (N Venkateswaran et al.)A Design Methodology for Very Large Array Processors — Part 2: PACUBE VLSI Arrays (N Venkateswaran et al.)A VLSI Implementation of Inverse Discrete Cosine Transf Bhattacharya & S S Haider)Systolic Merging and Ranking of Votes for the Generalized Hough Transform (M Albanesi & M Ferretti)High Speed Parallel VLSI Architectures for Image Decorrelation (T Acharya & A Mukherjee)PMAC: A Polygon Matching Chip (R Sastry & N Ranganatham) Algorithms for Template Matching on Mesh Connected Computer (H Senoussi & S Saoudi)Fast Pattern-Matching Algorithm on Modular Mesh-Connected Computers with Multiple Buses (K L Chung)A VLSI Parallel Architecture for Fuzzy Expert Systems (V Catania & G Ascia)VLSI Im an Efficient ASIC Architecture for Real-Time Rotation of Digital Images (I Ghosh & B Majumdar) Readership: Computer scientists and electrical engineers. keywords:

A Perfect Gift for Budding Engineers to Become Industry Ready

Fourth International Conference on High Performance Computing

Social Transformation in Urban India

Smart Secure Systems – IoT and Analytics Perspective

Image Processing and Capsule Networks

Structural Transformation of Indian Economy

This volume constitutes the first of three parts of the refereed proceedings of the First International Conference on Computer Science and Information Technology, CCSIT 2010, held in Bangalore, India, in January 2011. The 59 revised full papers presented in this volume were carefully selected. The papers are organized in topical sections on distributed and parallel systems and algorithms; DSP, image processing, pattern recognition, and multimedia; software engineering; database and data Mining; as well as soft computing, such as AI, neural networks, fuzzy systems, etc.

Issues in Energy Research and Application / 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Energy Research and Application. The editors have built Issues in Energy Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Energy Research and Application in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Energy Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

This book highlights the state-of-the-art research and discovery in the use of MOFs in catalysis, highlighting the scope to which these novel materials have been incorporated by the community. It provides an exceptional insight into the strategies for the synthesis and functionalization of MOFs, their use as CO2 and chemical warfare agents capture, their role in bio-catalysis and applications in photocatalysis, asymmetric catalysis, nano-catalysis, etc. This book will also emphasize the challenges with previous signs of progress and way for further research, details relating to the current pioneering technology, and future perspectives with a multidisciplinary approach. Furthermore, it presents up-to-date information on the economics, toxicity, and regulations related to these novel materials.

The purpose of WNIS 2009, the 2009 International Conference on Wireless N- works and Information Systems, is to bring together researchers, engineers and practitioners interested on information systems and applications in the context of wireless networks and mobile technologies. Information systems and information technology are pervasive in the whole communications field, which is quite vast, encompassing a large number of research topics and applications: from practical issues to the more abstract th- retical aspects of communication; from low level protocols to high-level networ- ing and applications; from wireless networking technologies to mobile infor- tion systems; many other topics are included in the scope of WNIS 2009. The WNIS 2009 will be held in Shanghai, China, in December 2009. We cordially invite you to attend the 2009 International Conference on Wireless N- works and Information Systems. We are soliciting papers that present recent results, as well as more speculative presentations that discuss research challenges, define new applications, and propose methodologies for evaluating and the road map for achieving the vision of wireless networks and mobile technologies. The WNIS 2009 is co-sponsored by the Institute of Electrical and Electronics Engineers, the IEEE Shanghai Section, the Intelligent Information Technology Application Research Association, Hong Kong and Wuhan Institute of Techn- ogy, China. The purpose of WNIS 2009 is to bring together researchers and practitioners from academia, industry, and government to exchange their research ideas and results and to discuss the state of the art in the areas of the symposium.

Volume 2

Global Perspectives on the Holocaust

SiPS ... Design and Implementation

Advances in Wireless Networks and Information Systems

Second International Conference on Intelligent Information Technologies. ICIIT 2017, Chennai, India, December 20-22, 2017, Proceedings

Celfon 5G+ Industrial Directory

This book covers challenges and solutions in establishing Industry 4.0 standards for Internet of Things. It proposes a clear view about the role of Internet of Things in establishing standards. The sensor design for industrial problem, challenges faced, and solutions are all addressed. The concept of digital twin and complexity in data analytics for predictive maintenance and fault prediction is also covered. The book is aimed at existing problems faced by the industry at present, with the goal of cost-efficiency and unmanned automation. It also concentrates on predictive maintenance and predictive failures. In addition, it includes design challenges and a survey of literature.

To date, a plethora of companies and organizations are investing vast amounts of money on the latest technologies. Information technology can be used to improve market share, profits, sales, competitive advantage, and customer/employee satisfaction. Unfortunately, the individuals meant to use these technologies are not well equipped on how to effectively and efficiently use these tools for competitive advantage and decision making. The Handbook of Research on IT Applications for Strategic Competitive Advantage and Decision Making is a collection of innovative research relevant to the methodologies, theoretical frameworks, and latest empirical research findings in information technology applications, strategic competitive advantage, and decision making. While highlighting topics including agility, knowledge management, and business intelligence, this book is ideally designed for information technology professionals, academics, researchers, managers, executives, and government officials interested in using information technology for strategic competitive advantage and better decision making.

This volume is the fourth part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 62 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are the papers of the Workshop on Cloud Computing: Architecture, Algorithms and Applications (CloudComp2011), of the Workshop on Multimedia Streaming (MultiStreams2011), and of the Workshop on Trust Management in P2P Systems (IWTMP2PS2011).

Enzyme inhibitors play a pivotal role in pharmaceutical and nutraceutical industries. The primary understanding of the action of inhibitors helps pharmacologists during the design process for developing new therapeutic drugs. Most drugs treat various chronic and life threatening diseases owing to their specificity and the potency of enzymes which they can inhibit. Enzyme inhibitors are used to screen various levels of diseases which propel the growth of inhibitors. The potential for enzyme inhibitors in the therapeutics market is very high as the biochemical properties and classes of enzyme inhibiting products are readily available. The other broad aspect of enzyme inhibition is their application in analytical sensors. These sensors assist in monitoring various environmental factors. Understanding the mechanism of inhibition and regeneration of enzymes is a general problem of great importance for many biochemists and biotechnologists especially when using immobilized enzymes. This reference compiles applied information about enzyme inhibitors used in medicine and environmental monitoring applications. Chapters presented in this volume cover special topics including biosensors, crop improvements in agriculture, biofuel production, pesticide and heavy metal detection, and drug therapy for human diseases such as breast cancer, neurological diseases and viral infections. The collection of topics in this volume makes it an informative resource for readers at all academic levels on the applications of enzyme inhibitors in medicine and environmental sciences.

Value Addition through Resource Utilization

First International Conference, ICHIT 2006, Jeju Island, Korea, November 9-11, 2006, Revised Selected Papers

Research Anthology on Convergence of Blockchain, Internet of Things, and Security

First International Conference, ACC 2011, Kochi, India, July 22-24, 2011. Proceedings, Part IV

Curing Madness?

Handbook of Research on IT Applications for Strategic Competitive Advantage and Decision Making

This book emphasizes the emerging building block of image processing domain, which is known as capsule networks for performing deep image recognition and processing for next-generation imaging science. Recent years have witnessed the continuous development of technologies and methodologies related to image processing, analysis and 3D modeling which have been implemented in the field of computer and image vision. The significant development of these technologies has led to an efficient solution called capsule networks [CapsNet] to solve the intricate challenges in recognizing complex image poses, visual tasks, and object deformation. Moreover, the breakneck growth of computation complexities and computing efficiency has initiated the significant developments of the effective and sophisticated capsule network algorithms and artificial intelligence [AI] tools into existence. The main contribution of this book is to explain and summarize the significant state-of-the-art research advances in the areas of capsule network [CapsNet] algorithms and architectures with real-time implications in the areas of image detection, remote sensing, biomedical image analysis, computer communications, machine vision, Internet of things, and data analytics techniques.

PREFACE This text book is an outcome of more than 22 years of teaching experience of the authors through classroom lectures, faculty feedback, student's expectations and university demands. It is designed to cover all the units of third semester, Anna University, Chennai, as per the new regulations. The authors have calculated more than thirteen years past question papers and prepared a very comprehensive material that help the students directly to handle all types of questions in the examinations. Salient features 100 % syllabus coverage. More examples with step-by-step explanation. Complicated problems are simplified. Supported by clear illustrations. Anna University Q & A are solved. Each and every step is explained very clear. Related formulas are given in each problem. Easy to understand solutions. Diagrams are given wherever necessary. Each unit is added with solved PART A questions.

This book describes various mathematical models that can be used to better understand the spread of novel Coronavirus Disease 2019 (COVID-19) and help to fight against various challenges that have been developed due to COVID-19. The book presents a statistical analysis of the data related to the COVID-19 outbreak, especially the infection speed, death and fatality rates in major countries and some states of India like Gujarat, Maharashtra, Madhya Pradesh and Delhi. Each chapter with distinctive mathematical model also has numerical results to support the efficacy of these models. Each model described in this book provides its unique prediction policy to reduce the spread of COVID-19. This book is beneficial for practitioners, educators, researchers and policymakers handling the crisis of COVID-19 pandemic.

This is the latest (2021) edition of Coimbatore South Industrial Directory. Based on the details collected till December 2020. All types of Industries (Small, Medium, Large, Tiny, Micro) are covered and listed with their Phone Numbers, Mobile Numbers, Address, Contact Person, Products sold or Service Offered etc. Industries and Suppliers located in the southern part of Coimbatore, namely, SIDCO Industrial Estates of Kurichi & Malumichampatti, Eachanari, Seerapalayam, Bodipalayam, Madukkarai, Podanur, Kuniyamuthur are listed. More than 3,500 Industries producing 1,200+ products are listed. Wide range of Job Machining Capacities in CNC Machinery, Steel Castings, Forgings, Heat Treatment, Surface Finishing etc are covered. An ideal guide to find prospects and promote Industries & Businesses in these areas. This COIMBATORE SOUTH Directory is also available as printed edition. Available through selected Mobile Phone Shops & Book Sellers.

Mathematical Analysis for Transmission of COVID-19

Recent Developments in Applied Microbiology and Biochemistry

History, Identity, Legacy

Environmental Pollution and Remediation

ICIPCN 2020

Design, Challenges and Solutions

What academicians and industry leaders say about SHAPE ITThe job market is shifting fromqualification-based to skill-based setupTo stay relevant you have toSHAPE IT or ship-outOne needs to be a life-long learner tosurvive and succeed at workplaceSHAPE IT takes acommonsensical approach to skill enhancementto make budding engineers industry readyThe 50+ student stories are aPerfect Prescription for Success,and motivates young graduates toexplore new opportunitiesThe SHAPE IT traits arevital ingredients to enrich your career,have to practiced in actual settings and perfected over time

Transforms and Partial Differential Equations

Waste Biorefinery

Transforming Businesses With Bitcoin Mining and Blockchain Applications

15th International Conference, ICDCIT 2019, Bhubaneswar, India, January 10–13, 2019, Proceedings

Advances in Computer Science and Information Technology

Edited Abstract of Proceedings of the Seminar on Role of Women Scientists in Social Transformation and Nation Building, New Delhi, April 27-28, 1988