

Anna University Chennai Affiliated Institutions Regulations

Medical and information communication technology professionals are working to develop robust classification techniques, especially in healthcare data/image analysis, to ensure quick diagnoses and treatments to patients. Without fast and immediate access to healthcare databases and information, medical professionals' success rates and treatment options become limited and fall to disastrous levels. Advanced Classification Techniques for Healthcare Analysis provides emerging insight into classification techniques in delivering quality, accurate, and affordable healthcare, while also discussing the impact health data has on medical treatments. Featuring coverage on a broad range of topics such as early diagnosis, brain-computer interface, metaheuristic algorithms, clustering techniques, learning schemes, and mobile telemedicine, this book is ideal for medical professionals, healthcare administrators, engineers, researchers, academicians, and technology developers seeking current research on furthering information and communication technology that improves patient care.

Engineering Chemistry-I serves as a textbook for the first semester course for I year BE/B. Tech students of Anna University, Chennai The book is informative and exhaustive to meet the requirements of students who aim to assimilate authentic knowledge for use during engineering course as well as in their careers. The theoretical portions have been explained in simple language, clear style with lot of solved problems and illustrated diagrams. Academic and industrial communities will find this book a valuable resource. KEY FEATURES • Specifically designed for I year B.E. students of colleges affiliated to Anna University, Chennai. • The chapters are presented in simple language. • Suitable diagrams for clear understanding of the concepts. • The recent developments in the respective fields are included in all the chapters. • Comparative tables are presented where ever two similar concepts arise. • Many solved problems. • Review questions from previous Anna University examinations at the end of each chapter.

This book discusses the bioremediation of both solid and liquid waste, including regional solutions for India as well as globally relevant applications. The topics covered include pollutant reduction through composting, solutions for petroleum refinery waste, use of microorganisms in the bioremediation of industrial waste and toxicity reduction, microbial fuel cells, and microbial depolymerisation. The book also explores the biosorption of metals and the bioremediation of leachates, especially with regard to soil and groundwater remediation. It is a valuable resource for researchers, professionals, and policy makers alike.

India, bounded by the majestic Himalayan ranges in the North and edged by an endless stretch of golden beaches, is the land of hoary tradition and culturally diverse. The vivid kaleidoscope of landscapes, glorious historical sites and royal cities, misty mountain hideaways, colourful people, rich civilizations and festivities craft India Incredible. Recent years have witnessed the educational scene, especially the higher education sector in the State undergoing a sea change in respect of quality, diversity and accessibility in tune with the global trends. Kerala's surge in the educational front is to be viewed in the backdrop of the country's great legacy in education. India has been a major seat of learning for thousands of years. The country was home to Takshashila, the first university in the world and Aryabhata, the inventor of the digit Zero. In fact, education in Kerala has now become more value-added and affordable, thanks to the pro-active initiatives of the State Government and active involvement of the private sector. Moreover, in the higher education market, Kerala has a significant edge in respect of cost which means that there would be growing influx of candidates into the state from outside the state for better and affordable professional education in the days to come. With the most sought-after professionals and the excellent network of institutes, Kerala is becoming the very preferred educational destination in the world. And, we are equipped for you with some elucidations which step-up her significance in the educational map. In Campus Plus, we propose some valuable information along with a number of educational institutes in the State which will be useful for the students and parents in the higher education scenario.

Handbook of Research on Deep Learning-Based Image Analysis Under Constrained and Unconstrained Environments

Combating Security Breaches and Criminal Activity in the Digital Sphere

Sustainable Entrepreneurship

Innovation and Transformation

India, bounded by the majestic Himalayan ranges in the North and edged by an endless stretch of golden beaches, is the land of hoary tradition and cultural diverse. Vivid kaleidoscope of landscapes, glorious historical sites and royal cities, misty mountain hideaways, colourful people, rich civilizations and festivities craft India Incredible. Recent years have witnessed the educational scene, especially the higher education sector in the State undergoing a sea change in respect of quality, diversity and accessibility in tune with the global trends. Kerala's surge in the educational front is to be viewed in the backdrop of the country's great legacy in education. India has been a major seat of learning for thousands of years. The country was home to Takshashila, the first university in the world and Aryabhata, the inventor of the digit Zero. In fact, education in Kerala has now become more value added and affordable, thanks to the pro-active initiatives of the State Government and active involvement of the private sector. Moreover, in the higher education market, Kerala has a significant edge in respect of cost which means that there would be growing influx of candidates into the state from outside the state for better and affordable professional education in the days to come. With the most sought after professionals and excellent network of institutes Kerala is becoming the very preferred educational destination in the world. And, we are equipped for you with some elucidations which step-up her significance in the educational map. In Campus Plus, we propose some valuable information along with a number of educational institutes in the State which will be useful for the students and parents in the higher education scenario.

About CounsellingGuru CounsellingGuru is a comprehensive guide for all the Engineering aspirants of Tamilnadu. This book is aimed at providing complete information about engineering studies and statistical analysis on Tamilnadu Engineering Admissions [TNEA] counselling. It gives an insight to the reader about various branches of study in engineering and helps in selecting suitable branch of study based on one's personal preference and performance in final school year. Why CounsellingGuru?In the recent years, the interest towards engineering has increased among student community in Tamilnadu. Also in the last 13 years, the number of engineering colleges has increased approximately from 200 to 520+. In this scenario finding information about all the colleges and

selecting the right branch in right college has become a tough task for any engineering aspirant. It is not easy, to come up with a right decision for one's career, based on the vast amount of information available in the internet and through other sources. One of the strongest motivations for writing this book is to provide complete information about different engineering branches, colleges, and the counselling process followed in Tamilnadu Engineering Admissions. Analyzing the information about previous year counsellings, helps a student to take an informed decision about the suitable branch and college for his/her rank. Based on the counselling trend from the year 2007 to till date, this book is aimed at addressing the basic questions like 1. For one's TNEA rank, which is the best college and course? 2. What are the top colleges for a particular branch? 3. What does one learn in a particular Engineering branch? 4. Which branch & college was selected by a candidate with the same TNEA rank during the last few years? Counselling Guru will definitely help every engineering aspirant to take right decision for their career. What is inside? Engineering Branches - Overview, Scope of each branches, who can opt each branch, etc. List of all Engineering Colleges in Tamilnadu - Coming under Anna University Counselling Top Engineering Colleges - Overall (Top 100) and Branch-wise (Top 50) priority list TNEA Historic data analysis from TNEA 2007 onward Counselling Worksheet for TNEA Tips for choosing payment seats Guidelines for students and parents appearing for Engineering counselling The guidelines given in this book are developed by authors based on their rich experience in academics and engineering industry. More Info @ <http://www.counselling.guru/counsellingguru.html>

This book presents selected articles from India Smart Grid Week (ISGW 2018), held on March 5 to 9, 2018, at the Manekshaw Centre, New Delhi, India. It was the fourth conference and exhibition on smart grids and smart cities organized by the India Smart Grid Forum (ISGF), a Government of India public-private partnership, tasked with accelerating smart grid deployment across the country. Providing current-scenario-based updates on the Indian power sector, the book also highlights various disruptive technologies.

The cases contribute to the understanding of a systemic change from a linear economy to a circular economy and how businesses and organisations can transform their businesses and practices towards a sustainable future through innovations and creating sustainable business opportunities. Sustainable and social aspects of the cases within the organisation and with the stakeholders draw a clear picture of staying competitive, profitable and show the ability to create sustainable value. The cases provide insight into different cultural and societal aspects in the ever-changing business environment by creating an understanding of the circular economy, social entrepreneurship, and competitive leadership, and effective performance.

Engineering Chemistry-I (Anna University)

Emerging Trends in Computing zncrtc 2010

Applications of Big Data in Large- and Small-Scale Systems

International Journal of Cross-Cultural Studies: Vol.1, No.1

The Internet of Things in the Modern Business Environment

"Information and Communication Technology (ICT) has emerged as an ideal platform for imparting knowledge to a vast majority of people living in a pluralistic society. ... The book covers a wide range of areas of social importance such as community radio, telemedicine, educational television, e-governance, village resource centres, media freedom, and e-content. The author gives a developmental thrust to the field of information and communication technology. The book will be of great use to members of civil society, journalists, community media practitioners, media academics, and development planners in India in particular and developing countries in general."--Back cover.

The present book is based on the research papers presented in the International Conference on Emerging Trends in Science, Engineering and Technology 2012, held at Tiruchirapalli, India. The papers presented bridges the gap between science, engineering and technology. This book covers a variety of topics, including mechanical, production, aeronautical, material science, energy, civil and environmental energy, scientific management, etc. The prime objective of the book is to fully integrate the scientific contributions from academicians, industrialists and research scholars.

The communication field is evolving rapidly in order to keep up with society's demands. As such, it becomes imperative to research and report recent advancements in computational intelligence as it applies to communication networks. The Handbook of Research on Recent Developments in Intelligent Communication Application is a pivotal reference source for the latest developments on emerging data communication applications. Featuring extensive coverage across a range of relevant perspectives and topics, such as satellite communication, cognitive radio networks, and wireless sensor networks, this book is ideally designed for engineers, professionals, practitioners, upper-level students, and academics seeking current information on emerging communication networking trends.

The industrial internet is a new and upcoming technology that is changing the practices of organizations and corporations everywhere. Through research and application, opportunities can arise from implementing these new systems and devices. The Internet of Things in the Modern Business Environment is an essential reference source for the latest scholarly research on varying aspects of the interworking of smart devices within a business setting and explores the impact of these devices on company

operations and models. Featuring extensive coverage on a broad range of topics such as supply chain management, information sharing, and data analytics, this publication is ideally designed for researchers, managers, and students seeking current research on the expansion of technology in commerce.

Campus Plus 2017

Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing

Proceedings of ICT4SD 2021, Volume 1

Campus Plus 2013

Handbook of Research on Smart Technology Models for Business and Industry

In recent years, technological advances have led to significant developments within a variety of business applications. In particular, data-driven research provides ample opportunity for enterprise growth, if utilized efficiently. Privacy and Security Policies in Big Data is a pivotal reference source for the latest research on innovative concepts on the management of security and privacy analytics within big data. Featuring extensive coverage on relevant areas such as kinetic knowledge, cognitive analytics, and parallel computing, this publication is an ideal resource for professionals, researchers, academicians, advanced-level students, and technology developers in the field of big data.

Recent advancements in imaging techniques and image analysis has broadened the horizons for their applications in various domains. Image analysis has become an influential technique in medical image analysis, optical character recognition, geology, remote sensing, and more. However, analysis of images under constrained and unconstrained environments require efficient representation of the data and complex models for accurate interpretation and classification of data. Deep learning methods, with their hierarchical/multilayered architecture, allow the systems to learn complex mathematical models to provide improved performance in the required task.

The Handbook of Research on Deep Learning-Based Image Analysis Under Constrained and Unconstrained Environments provides a critical examination of the latest advancements, developments, methods, systems, futuristic approaches, and algorithms for image analysis and addresses its challenges. Highlighting concepts, methods, and tools including convolutional neural networks, edge enhancement, image segmentation, machine learning, and image processing, the book is an essential and comprehensive reference work for engineers, academicians, researchers, and students.

This book reviews principles, techniques and applications of metal, metal oxides, metal sulfides and metal-organic frameworks for removal and degradation of pollutants. Natural materials are often much more advanced than synthetic materials in terms of circularity and are functional, often biodegradable, recyclable and generate little waste. They are, therefore, a source of inspiration for new synthetic materials. In particular, recent research has focused on various types of functional materials such as organic, inorganic, nanostructured and composites for the remediation of environmental pollution.

This book provides a novel solution for existing challenges in wireless body sensor networks (WBAN) such as network lifetime, fault tolerant approaches, reliability, security, and privacy. The contributors first discuss emerging trends of WBAN in the present health care system. They then provide possible solutions to challenges inherent in WBANs. Finally, they discuss results in working environments. Topics include communication protocols of implanted, wearable and nano body sensor networks; energy harvesting methodologies and experimentation for WBAN; reliability analysis and fault tolerant architecture for WBAN; and handling network failure during critical duration. The contributors consist of researchers and practitioners in WBAN around the world.

Deep Neural Networks for Multimodal Imaging and Biomedical Applications

A Comprehensive Guide for Tamilnadu Engineering Admissions

Revamping Architectural Education

Campus Plus 2019

Proceedings of 6th International Conference on Big Data and Cloud Computing Challenges

This book gathers selected papers presented at the International Conference on Innovations in Information and Communication Technologies (ICI2CT 2020), held at National University of Singapore, Singapore, during 18-19 December 2020. It presents the works on the intersection of the Computer Science and Communication Engineering. Topics covered in the book include communications engineering, Internet and web technology, computer and information science, artificial intelligence, data science and management, and ICT applications.

The field of healthcare is seeing a rapid expansion of technological advancement within current medical practices. The implementation of technologies including neural networks, multi-model imaging, genetic algorithms, and soft computing are

assisting in predicting and identifying diseases, diagnosing cancer, and the examination of cells. Implementing these biomedical technologies remains a challenge for hospitals worldwide, creating a need for research on the specific applications of these computational techniques. Deep Neural Networks for Multimodal Imaging and Biomedical Applications provides research exploring the theoretical and practical aspects of emerging data computing methods and imaging techniques within healthcare and biomedicine. The publication provides a complete set of information in a single module starting from developing deep neural networks to predicting disease by employing multi-modal imaging. Featuring coverage on a broad range of topics such as prediction models, edge computing, and quantitative measurements, this book is ideally designed for researchers, academicians, physicians, IT consultants, medical software developers, practitioners, policymakers, scholars, and students seeking current research on biomedical advancements and developing computational methods in healthcare.

"This book addresses the newest innovative and intelligent applications related to utilizing the large amounts of big data being generated that is increasingly driving decision making and changing the landscape of business intelligence, from governments to private organizations, from communities to individuals"--

Cyber attacks are rapidly becoming one of the most prevalent issues in the world. As cyber crime continues to escalate, it is imperative to explore new approaches and technologies that help ensure the security of the online community. The Handbook of Research on Threat Detection and Countermeasures in Network Security presents the latest methodologies and trends in detecting and preventing network threats. Investigating the potential of current and emerging security technologies, this publication is an all-inclusive reference source for academicians, researchers, students, professionals, practitioners, network analysts, and technology specialists interested in the simulation and application of computer network protection.

Media, Technology, and Society

Privacy and Security Policies in Big Data

Metal, Metal-Oxides and Metal-Organic Frameworks for Environmental Remediation

By Jagran Josh

Mass Media in India - 2004

This book provides latest trends and developments in mass communication in India. It seeks to cater to the needs of the students of Journalism, Policy-makers, researchers and teachers.

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.

Current Affairs April 2018 eBook is created by keeping the demands of recent pattern of various competitive exams in major view. It is brought to you by Jagranjosh.com. The topics for cover story and entire news section are selected on the basis of an analysis of general knowledge sections in all important exams including IAS, PCS, BANK, SSC, Insurance and others. And the time duration of topics covered in magazine includes all exam oriented current affairs of March 2018. It presents the comprehensive coverage of the events of current affairs which are chosen on the basis of the requirements of all important exams. It covers all exam oriented current affairs of March 2018 with all required facts and analysis. The analysis of all the events related to National, International, Economy, Science & Technology, Environment & Ecology is done in a way that fulfills the demand of all the important exams including IAS. The language used in the magazine is lucid and easy-to-understand language. The major topics included in the magazine for cover story are: Cambridge Analytica controversy: Explained, Regional tensions fuel growth in India's arms imports: SIPRI report, China makes historic move, allows Xi Jinping to remain President indefinitely, Supreme Court allows Passive Euthanasia. The eBook is expected to be handy for most of forthcoming exams like, Civil Services Examination, Various Insurance AO Exams, PCS exams, MAT and others

The book that you hold in your hands is a treasure trove of ideas to set into motion a new generation of learning for architects. As the author is a practitioner of this technology called architecture, he have often felt that globally it is the last field of knowledge that still displays vestiges of a holistic, renaissance attitude of mind. It has not fallen victim to our global love for economic development above all other considerations, and is not always a handmaiden of consumerist culture. Architects are somewhat obsessed with form. Despite this, or inspite of it, the combine and harmonize the field of applied arts with the sciences, the attitudes of engineering optimization with the expression of the visual arts, covering subjects as diverse as chemistry and history! India is possibly the world's largest future market for private sector architects today. If we do not adapt our architectural practice, starting with our architectural teaching practices, we run the clear and present danger of becoming extinct in the race for

economic development and urbanization which is truly sustainable: resilient, sufficient, and equitable. In reading this little gem of a book the author would urge the reader to look beyond formulae and descriptions, and generate an agenda for reform; beyond just the curriculum and towards transformation. As Indian society struggles to understand its architects, the profession owes a duty to itself to remain relevant to social needs and aspirations to create a nation of our dreams. And the author hopes that the beginning of that agenda can be found in the pages of this book, interpreted by every reader individually.

ICI2CT 2020

Body Area Network Challenges and Solutions

Emerging Trends in Science, Engineering and Technology

Counselling Guru

Experiment and Evaluation in Information Retrieval Models

With the rapid advancement in technology, a myriad of new threats have emerged in online environments. The broad spectrum of these digital risks requires new and innovative methods for protection against cybercrimes. *Combating Security Breaches and Criminal Activity in the Digital Sphere* is a pivotal reference source for the latest scholarly research on current trends in cyber forensic investigations, focusing on advanced techniques for protecting information security and preventing potential exploitation for online users. Featuring law enforcement perspectives, theoretical foundations, and forensic methods, this book is ideally designed for policy makers, analysts, researchers, technology developers, and upper-level students.

Experiment and Evaluation in Information Retrieval Models explores different algorithms for the application of evolutionary computation to the field of information retrieval (IR). As well as examining existing approaches to resolving some of the problems in this field, results obtained by researchers are critically evaluated in order to give readers a clear view of the topic. In addition, this book covers Algorithmic Solutions to the Problems in Advanced IR Concepts, including Feature Selection for Document Ranking, web page classification and recommendation, Facet Generation for Document Retrieval, Duplication Detection and seeker satisfaction in question answering community Portals. Written with students and researchers in the field on information retrieval in mind, this book is also a useful tool for researchers in the natural and social sciences interested in the latest developments in the fast-moving subject area. Key features: Focusing on recent topics in Information Retrieval research, Experiment and Evaluation in Information Retrieval Models explores the following topics in detail: Searching in social media Using semantic annotations Ranking documents based on Facets Evaluating IR systems offline and online The role of evolutionary computation in IR Document and term clustering, Image retrieval Design of user profiles for IR Web page classification and recommendation Relevance feedback approach for Document and image retrieval

E-collaboration is a tool that breaks the boundaries of activities within and between organizations. E-collaboration technologies are making it easier than ever for people to work together no matter where they happen to be. Succeeding with collaboration at a level where it represents a competitive advantage requires a broad approach. Internal social networks can circumvent bureaucratic boundaries and facilitate information sharing activities among individuals across hierarchies and divisions or departments. This allows organizations to acquire resources or competencies from external sources that otherwise would be difficult or expensive to access. Accordingly, organizations focus more on their own areas of competence and gain a competitive advantage by acquiring richer content and better solutions in a creative and cost-effective way. Challenging times can provide new opportunities that need to be detected at the right time. There must be many other sources of competitive advantages which should support the main source of competitive value.

Competitive advantage may be gained if the organization is able to find sources of competitive advantage in time of economic crises. Organizations have rapidly deployed technology solutions, such as collaboration tools and cloud computing, which enable their employees to work remotely and continue these organizational operations, especially during times of crisis. *E-Collaboration Technologies and Strategies for Competitive Advantage Amid Challenging Times* focuses on e-collaboration technologies, strategies, and solutions from a perspective of organizational competitive advantage, including e-collaboration technologies' situation and solutions, innovation systems, competition and strategies, marketing, and growth capabilities. The book presents a full understanding on e-collaboration technologies, strategies, and solutions in organizations, and provides insight for how to develop e-collaboration technologies, strategies, and solutions more generally so as to simultaneously leverage potential benefit and guard against potential risk, promoting organizational competitive advantage amid challenging times. This book is ideally intended for policymakers, government officials, corporate heads of firms,

managers, managing directors, practitioners, researchers, academicians, and students seeking information on the e-collaboration technologies being employed in businesses in times of crisis.

This book highlights the applications of soft computing techniques in medical bioinformatics. It reflects the state-of-the-art research in soft computing and bioinformatics, including theory, algorithms, numerical simulations, and error and uncertainty analysis. It also deals with novel applications of new processing techniques in computer science. This book is useful to both students and researchers from computer science and engineering fields.

4th International Conference and Exhibition on Smart Grids and Smart Cities

Education World

ICBCC 2019, UMKC, Kansas City, USA

Campus Plus 2015

Proceedings of International Conference, INCOSSET 2012

The book presents papers from the 6th International Conference on Big Data and Cloud Computing Challenges (ICBCC 2019), held at the University of Missouri, Kansas City, USA, on September 9 and 10, 2019 and organized in collaboration with VIT Chennai. The book includes high-quality, original research on various aspects of big data and cloud computing, offering perspectives from the industrial and research communities on how to address the current challenges in the field. As such it is a valuable reference resource for researchers and practitioners in academia and industry.

Advances in machine learning techniques and ever-increasing computing power has helped create a new generation of hardware and software technologies with practical applications for nearly every industry. As the progress has, in turn, excited the interest of venture investors, technology firms, and a growing number of clients, implementing intelligent automation in both physical and information systems has become a must in business. Handbook of Research on Smart Technology Models for Business and Industry is an essential reference source that discusses relevant abstract frameworks and the latest experimental research findings in theory, mathematical models, software applications, and prototypes in the area of smart technologies. Featuring research on topics such as digital security, renewable energy, and intelligence management, this book is ideally designed for machine learning specialists, industrial experts, data scientists, researchers, academicians, students, and business professionals seeking coverage on current smart technology models.

This book has been designed by combining the goodness of the original Wren & Martin text, High School Grammar & Composition, and specialized content developed by a panel of competitive examination experts in the area of the English language. The USP is therefore adapting a classical text to the needs of the various admission and recruitment competitive examination aspirants. Its exhaustive coverage ensures that virtually no competitive examination remains untouched. Students preparing for descriptive tests such as UPSC (Compulsory English and General English Papers of Main Exams) and state PCS examinations, Judicial Services examination, Indian Forest Service examination, Statistical Services and many other examinations in which subjective papers/tests are mandatory will find this book immensely useful. The book is also a boon for those students who are preparing for objective tests such as Banking and Insurance, SSC, UPSC preliminary, Defence Services, Law entrance, Business School entrance examinations, and many other admission and recruitment examinations. A unique feature of this book is demonstration of the connectedness of the concepts and their applications visually, with the help of arrows and pointers. The aspirant will also find questions from recent examinations on virtually every page of the book. An index of examination-wise questions has been included so that the aspirant can choose the sections according to the targeted examination and focus more. Topic-wise distribution of questions in English examination papers - both descriptive and objective - will also help aspirants to undertake a very well directed test-prep program using the book.

ICT Systems and Sustainability

Waste Bioremediation

The Human Development Magazine

E-Collaboration Technologies and Strategies for Competitive Advantage Amid Challenging Times

Campus Plus 2020