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ISGW 2018 Compendium of Technical Papers *Principles and Applications of Socio-Cognitive and Affective Computing* **Advanced Classification Techniques for Healthcare Analysis** *Artificial Intelligence and Evolutionary Computations in Engineering Systems Emerging Trends in Science, Engineering and Technology* Biodiesel Fuels Based on Edible and Nonedible Feedstocks, Wastes, and Algae **Papers in ITJEMAST 11(13) 2020 Indian Emission Norms and Practices IBPS PO Past Solved Papers 2012 to 2016 Preliminary and Main Exam Papers in ITJEMAST 11(15) 2020** *Combating Security Breaches and Criminal Activity in the Digital Sphere* **Advancement, Opportunities, and Practices in Telehealth Technology** Neural Networks for Natural Language Processing Evolutionary Intelligence for Healthcare Applications **Methods, Implementation, and Application of Cyber Security Intelligence and Analytics** *Securing IoT and Big Data* **Handbook of Research on Design, Deployment, Automation, and Testing Strategies for 6G Mobile Core Network Essential Enterprise Blockchain Concepts and Applications** *Emerging Technologies in Intelligent Applications for Image and Video Processing* **UPSC IAS Mains Exam: General Studies Paper-3 Complete Study Material Handbook of**

Research on Digital Content Management and Development in Modern Libraries Sentiment Analysis and Knowledge Discovery in Contemporary Business Research & Teaching Aptitude Paper-I *Experiment and Evaluation in Information Retrieval Models* **Feature Dimension Reduction for Content-Based Image Identification** *Antenna Design for Narrowband IoT: Design, Analysis, and Applications* **Handbook of Research on Advanced Data Mining Techniques and Applications for Business Intelligence** Intelligent Technologies for Science and Engineering **Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing Machine Learning and Deep Learning Techniques for Medical Science Mathematical Analysis and Computing** Examining the Impact of Deep Learning and IoT on Multi-Industry Applications *IIMI Research Paper No. 1 Internet of Things (IoT)* **Handbook of Research on Network Forensics and Analysis Techniques** 2 Years Maharashtra Civil Services Mains General Studies Solved Papers 1 to 4 (2018 - 2019) with detailed Explanations **Handbook of Research on Technologies and Systems for E-Collaboration During Global Crises** *Experiment and Evaluation in Information Retrieval Models* Cognitive Computing for Internet of Medical Things *Challenges and Risks Involved in Deploying 6G and NextGen Networks*

Papers in ITJEMAST 11(15) 2020 Jan 19 2022 International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies publishes a wide spectrum of research and technical articles as well as reviews, experiments, experiences, modelings, simulations, designs, and innovations from engineering, sciences, life sciences, and related disciplines

as well as interdisciplinary/cross-disciplinary/multidisciplinary subjects. Original work is required. Article submitted must not be under consideration of other publishers for publications. *Principles and Applications of Socio-Cognitive and Affective Computing* Sep 27 2022 Recent advances in socio-cognitive and affective computing require further study as countless benefits and opportunities have emerged from these innovative technologies that may be useful in a number of contexts throughout daily life. In order to ensure these technologies are appropriately utilized across sectors, the challenges and strategies for adoption as well as potential uses must be thoroughly considered. Principles and Applications of Socio-Cognitive and Affective Computing discusses several aspects of affective interactions and concepts in affective computing, the fundamentals of emotions, and emerging research and exciting techniques for bridging the emotional disparity between humans and machines, all within the context of interactions. The book also considers problem and solution guidelines emerging in cognitive computing, thus summarizing the roadmap of current machine computational intelligence techniques for affective computing. Covering a range of topics such as social interaction, robotics, and virtual reality, this reference work is crucial for scientists, engineers, industry professionals, academicians, researchers, scholars, practitioners, instructors, and students. **Handbook of Research on Design, Deployment, Automation, and Testing Strategies for 6G Mobile Core Network** Jun 12 2021 To overcome the constraints of 5G for supporting new challenges, 6G wireless systems must be developed with new and attractive features. These systems are expected to increase performance and maximize quality of service several folds more than 5G along with other exciting features. However, 6G is still in its infancy and must be explored. The Handbook of Research

on Design, Deployment, Automation, and Testing Strategies for 6G Mobile Core Network discusses the technological feats used in the new 6G wireless systems. It discusses the design, automation, and uses for industry as well as testing strategies. Covering topics such as 6G architecture, smart healthcare, and wireless communication, this major reference work is an excellent resource for computer scientists, engineers, students and professors in higher education, researchers, and academicians.

IBPS PO Past Solved Papers 2012 to 2016 Preliminary and Main Exam Feb 20 2022 IBPS PO Past Solved Papers 2012 to 2016 Preliminary and Main Exam covers past 5 years solved papers.

IIMI Research Paper No. 1 Jan 27 2020

Securing IoT and Big Data Jul 13 2021 This book covers IoT and Big Data from a technical and business point of view. The book explains the design principles, algorithms, technical knowledge, and marketing for IoT systems. It emphasizes applications of big data and IoT. It includes scientific algorithms and key techniques for fusion of both areas. Real case applications from different industries are offering to facilitate ease of understanding the approach. The book goes on to address the significance of security algorithms in combing IoT and big data which is currently evolving in communication technologies. The book is written for researchers, professionals, and academicians from interdisciplinary and transdisciplinary areas. The readers will get an opportunity to know the conceptual ideas with step-by-step pragmatic examples which makes ease of understanding no matter the level of the reader.

Intelligent Technologies for Science and Engineering Jul 01 2020

Neural Networks for Natural Language Processing Oct 16 2021

Information in today's advancing world is rapidly expanding and becoming widely available. This eruption of data has made handling it a daunting and time-consuming task. Natural language processing (NLP) is a method that applies linguistics and algorithms to large amounts of this data to make it more valuable. NLP improves the interaction between humans and computers, yet there remains a lack of research that focuses on the practical implementations of this trending approach. Neural Networks for Natural Language Processing is a collection of innovative research on the methods and applications of linguistic information processing and its computational properties. This publication will support readers with performing sentence classification and language generation using neural networks, apply deep learning models to solve machine translation and conversation problems, and apply deep structured semantic models on information retrieval and natural language applications. While highlighting topics including deep learning, query entity recognition, and information retrieval, this book is ideally designed for research and development professionals, IT specialists, industrialists, technology developers, data analysts, data scientists, academics, researchers, and students seeking current research on the fundamental concepts and techniques of natural language processing.

UPSC IAS Mains Exam: General Studies Paper-3 Complete Study Material Mar 09 2021 General Studies Paper-3 Syllabus for UPSC Civil Services Mains Exam consists of the below major areas: Technology, Economic Development, Biodiversity, Environment, Security and Disaster Management. Detailed syllabus as provided by UPSC is as below: GENERAL STUDIES 3 PAPER SYLLABUS FOR UPSC CIVIL SERVICES MAINS 1. Indian Economy and issues relating to planning, mobilization of resources, growth, development and

employment. 2. Inclusive growth and issues arising from it. 3. Government Budgeting. 4. Major crops cropping patterns in various parts of the country, different types of irrigation and irrigation systems storage, transport and marketing of agricultural produce and issues and related constraints; e-technology in the aid of farmers. 5. Issues related to direct and indirect farm subsidies and minimum support prices; Public Distribution System- objectives, functioning, limitations, revamping; issues of buffer stocks and food security; Technology missions; economics of animal-rearing. 6. Food processing and related industries in India- scope and significance, location, upstream and downstream requirements, supply chain management. 7. Land reforms in India. 8. Effects of liberalization on the economy, changes in industrial policy and their effects on industrial growth. 9. Infrastructure: Energy, Ports, Roads, Airports, Railways etc. 10. Investment models. 11. Science and Technology- developments and their applications and effects in everyday life. 12. Achievements of Indians in science & technology; indigenization of technology and developing new technology. 13. Awareness in the fields of IT, Space, Computers, robotics, nanotechnology, biotechnology and issues relating to intellectual property rights. 14. Conservation, environmental pollution and degradation, environmental impact assessment. 15. Disaster and disaster management. 16. Linkages between development and spread of extremism. 17. Role of external state and non-state actors in creating challenges to internal security. 18. Challenges to internal security through communication networks, the role of media and social networking sites in internal security challenges, basics of cyber security; money-laundering and its prevention. 19. Security challenges and their management in border areas; linkages of organized crime with terrorism. 20. Various Security forces and

agencies and their mandate. Technology, Economic Development, Bio-diversity, Environment, Security and Disaster Management Topic Covered: 1. Challenges to Internal Security through Communication Networks 2. Money Laundering and Its Prevention 3. Role of Media and Social Networking Sites in Internal Security Challenges 4. Linkages of Organised Crime with Terrorism 5. Land reforms in India 6. Linkages between development and spread of extremism 7. Issues relating to intellectual property rights 8. Awareness in the fields of IT 9. Awareness in the fields of Computers 10. Awareness in the fields of Robotics 11. Awareness in the field of Space 12. Awareness in the fields of Bio-technology 13. Awareness in the fields of nano-technology 14. Conservation 15. Environmental pollution and degradation 16. Environmental impact assessment 17. Food processing and related industries in India- scope and significance, location, upstream and downstream requirements, supply chain management. 18. Environmental Impact Assessment 19. Food processing and related industries in India 20. Security challenges and their management in border areas 21. Disaster Management 22. Indian Economy and issues relating to planning, mobilization of resources, growth, development and employment 23. Major crops cropping patterns in various parts of the country 24. Different types of irrigation and irrigation systems storage 25. E-technology in the aid of farmers 26. Effects of liberalization on the economy, changes in industrial policy and their effects on industrial growth. 27. Transport and marketing of agricultural produce and issues and related constraints 28. Inclusive growth and issues arising from it 29. Public Distribution System-, functioning, limitations, revamping 30. Issues of buffer stocks and food security 31. Economics of Animal Rearing 32. Infrastructure: Energy, Ports, Roads, Airports, Railways 33. Science and Technology 34.

Effects of science and technology in everyday life 35. Application of science and technology 36. Achievements of Indians in science & technology 37. Developments Science and Technology 38. Indigenization of Technology and Developing New Technology 39. Role of External State and non-state Actors in creating Challenges to internal Security 40. Issues related to direct and indirect farm subsidies and minimum support prices

Methods, Implementation, and Application of Cyber Security Intelligence and Analytics Aug 14 2021 Cyber security is a key focus in the modern world as more private information is stored and saved online. In order to ensure vital information is protected from various cyber threats, it is essential to develop a thorough understanding of technologies that can address cyber security challenges. Artificial intelligence has been recognized as an important technology that can be employed successfully in the cyber security sector. Due to this, further study on the potential uses of artificial intelligence is required. Methods, Implementation, and Application of Cyber Security Intelligence and Analytics discusses critical artificial intelligence technologies that are utilized in cyber security and considers various cyber security issues and their optimal solutions supported by artificial intelligence. Covering a range of topics such as malware, smart grid, data breachers, and machine learning, this major reference work is ideal for security analysts, cyber security specialists, data analysts, security professionals, computer scientists, government officials, researchers, scholars, academicians, practitioners, instructors, and students.

Handbook of Research on Network Forensics and Analysis Techniques Nov 24 2019 With the rapid advancement in technology, myriad new threats have emerged in online

environments. The broad spectrum of these digital risks requires new and innovative methods for protection against cybercrimes. The Handbook of Research on Network Forensics and Analysis Techniques is a current research publication that examines the advancements and growth of forensic research from a relatively obscure tradecraft to an important part of many investigations. Featuring coverage on a broad range of topics including cryptocurrency, hand-based biometrics, and cyberterrorism, this publication is geared toward professionals, computer forensics practitioners, engineers, researchers, and academics seeking relevant research on the development of forensic tools.

Research & Teaching Aptitude Paper-I Dec 06 2020 2022-23 NTA UGC-NET/JRF Vol.-2 Research & Teaching Aptitude Paper-I Chapter-wise Solved Papers

Artificial Intelligence and Evolutionary Computations in Engineering Systems Jul 25 2022 This book gathers selected papers presented at the 6th International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems, held at the Anna University, Chennai, India, from 20 to 22 April 2020. It covers advances and recent developments in various computational intelligence techniques, with an emphasis on the design of communication systems. In addition, it shares valuable insights into advanced computational methodologies such as neural networks, fuzzy systems, evolutionary algorithms, hybrid intelligent systems, uncertain reasoning techniques, and other machine learning methods and their application to decision-making and problem-solving in mobile and wireless communication networks.

Handbook of Research on Advanced Data Mining Techniques and Applications for Business Intelligence Aug 02 2020 The development of business intelligence has enhanced the visualization of data to inform and facilitate business

management and strategizing. By implementing effective data-driven techniques, this allows for advance reporting tools to cater to company-specific issues and challenges. The Handbook of Research on Advanced Data Mining Techniques and Applications for Business Intelligence is a key resource on the latest advancements in business applications and the use of mining software solutions to achieve optimal decision-making and risk management results. Highlighting innovative studies on data warehousing, business activity monitoring, and text mining, this publication is an ideal reference source for research scholars, management faculty, and practitioners.

Evolutionary Intelligence for Healthcare Applications Sep 15 2021 This book highlights various evolutionary algorithm techniques for various medical conditions and introduces medical applications of evolutionary computation for real-time diagnosis. Evolutionary Intelligence for Healthcare Applications presents how evolutionary intelligence can be used in smart healthcare systems involving big data analytics, mobile health, personalized medicine, and clinical trial data management. It focuses on emerging concepts and approaches and highlights various evolutionary algorithm techniques used for early disease diagnosis, prediction, and prognosis for medical conditions. The book also presents ethical issues and challenges that can occur within the healthcare system. Researchers, healthcare professionals, data scientists, systems engineers, students, programmers, clinicians, and policymakers will find this book of interest.

Handbook of Research on Digital Content Management and Development in Modern Libraries Feb 08 2021 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.

Experiment and Evaluation in Information Retrieval Models Nov 05 2020 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

Essential Enterprise Blockchain Concepts and Applications May 11 2021 Blockchain is a technology that has attracted the attention of all types of businesses. Cryptocurrency such as Bitcoin has gained the most attention, but now companies are applying Blockchain technology to develop solutions improving traditional applications and securing all types of transactions. Robust and innovative, this technology is being combined with other well-known technologies including Cloud Computing, Big Data, and IoT to revolutionize outcomes in all verticals. Unlike books focused on financial applications, Essential Enterprise Blockchain Concepts and Applications is for researchers and practitioners who are looking for secure, viable, low-cost, and workable applications to solve a broad range of business problems. The book presents research that rethinks how to incorporate Blockchain with existing technology. Chapters cover various applications based on Blockchain technology including: Digital voting Smart contracts Supply chain management Internet security Logistics management Identity management Securing medical devices Asset management Blockchain plays a significant role in providing security for data operations. It defines how trusted transactions can be carried out and addresses Internet vulnerability problems. Blockchain solves the security

fault line between AI and IoT in smart systems as well as in other systems using devices connected to each other through public networks. Linear and permanent indexed records are maintained by Blockchain to face the vulnerability issues in a wide variety applications. In addition to applications, the book also covers consensus algorithms and protocols and performance of Blockchain algorithms.

<u>Sentiment Analysis and Knowledge Discovery in Contemporary Business</u> Jan 07 2021 In the era of social connectedness, people are becoming increasingly enthusiastic about interacting, sharing, and collaborating through online collaborative media. However, conducting sentiment analysis on these platforms can be challenging, especially for business professionals who are using them to collect vital data. Sentiment Analysis and Knowledge Discovery in Contemporary Business is an essential reference source that discusses applications of sentiment analysis as well as data mining, machine learning algorithms, and big data streams in business environments. Featuring research on topics such as knowledge retrieval and knowledge updating, this book is ideally designed for business managers, academicians, business professionals, researchers, graduate-level students, and technology developers seeking current research on data collection and management to drive profit.

Experiment and Evaluation in Information Retrieval Models Aug 22 2019 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

Antenna Design for Narrowband IoT: Design, Analysis, and Applications Sep 03 2020 In internet of things (IoT) applications, wireless connectivity is a key factor, particularly those that need to be in transition, or where wired communication is not effective or practicable. For top-notch connectivity of the Narrowband IoT (NB-IoT) standard, the 900MHz frequency is generally used by most of the vendors. The radiation quality not only depends on the antenna geometry but on immediate surroundings. Additionally, the IoT product itself and the user of the product can strongly affect the resulting radiation pattern and other characteristics of the antenna. On the other hand, a suitable antenna should also have high efficiency and adequate bandwidth covering the desired frequency range. To take these effects into consideration, the whole IoT product must be included in the antenna simulations. Antenna Design for

Narrowband IoT: Design, Analysis, and Applications provides the antenna design concept for narrowband internet of things applications, performs a detailed analysis of the antenna, and discusses the various antenna design concepts and structures. Covering a range of topics such as antenna design and antenna measurement systems, this book is ideal for industry professionals, research scholars, academicians, professors, and students.

Cognitive Computing for Internet of Medical Things Jul 21 2019 Cognitive Computing for Internet of Medical Things (IoMT) offers a complete assessment of the present scenario, role, challenges, technologies, and impact of IoMT-enabled smart healthcare systems. It contains chapters discussing various biomedical applications under the umbrella of the IoMT. Key Features Exploits the different prospects of cognitive computing techniques for the IoMT and smart healthcare applications Addresses the significance of IoMT and cognitive computing in the evolution of intelligent medical systems for biomedical applications Describes the different computing techniques of cognitive intelligent systems from a practical point of view: solving common life problems Explores the technologies and tools to utilize IoMT for the transformation and growth of healthcare systems Focuses on the economic, social, and environmental impact of IoMT-enabled smart healthcare systems This book is primarily aimed at graduates, researchers and academicians working in the area of development of the application of the of the application of the IoT in smart healthcare. Industry professionals will also find this book helpful.

Advanced Classification Techniques for Healthcare Analysis Aug 26 2022 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.

Examining the Impact of Deep Learning and IoT on Multi-Industry Applications Feb 26 2020 Deep learning, as a recent AI technique, has proven itself efficient in solving many real-world problems. Deep learning algorithms are efficient, high performing, and an effective standard for solving these problems. In addition, with IoT, deep learning is in many emerging and developing domains of computer technology. Deep learning algorithms have brought a revolution in computer vision applications by introducing an efficient solution to several image processing-related problems that have long remained unresolved or moderately solved. Various significant IoT technologies in various industries, such as education, health, transportation, and security, combine IoT with deep learning for complex problem solving and the supported interaction between human beings and their surroundings. Examining the Impact of

Deep Learning and IoT on Multi-Industry Applications provides insights on how deep learning, together with IoT, impacts various sectors such as healthcare, agriculture, cyber security, and social media analysis applications. The chapters present solutions to various real-world problems using these methods from various researchers' points of view. While highlighting topics such as medical diagnosis, power consumption, livestock management, security, and social media analysis, this book is ideal for IT specialists, technologists, security analysts, medical practitioners, imaging specialists, diagnosticians, academicians, researchers, industrial experts, scientists, and undergraduate and postgraduate students who are working in the field of computer engineering, electronics, and electrical engineering.

Emerging Technologies in Intelligent Applications for Image and Video Processing Apr 10 2021 Image and Video Processing is an active area of research due to its potential applications for solving real-world problems. Integrating computational intelligence to analyze and interpret information from image and video technologies is an essential step to processing and applying multimedia data. Emerging Technologies in Intelligent Applications for Image and Video Processing presents the most current research relating to multimedia technologies including video and image restoration and enhancement as well as algorithms used for image and video compression, indexing and retrieval processes, and security concerns. Featuring insight from researchers from around the world, this publication is designed for use by engineers, IT specialists, researchers, and graduate level students.

Advancement, Opportunities, and Practices in Telehealth Technology Nov 17 2021 Recent advancements in medical technology, such as telehealth services, have influenced the healthcare sector tremendously. While telehealth technology and

its application are not new, it has not been widely utilized despite the numerous benefits and opportunities it provides. However, recent policy changes have lowered obstacles to telehealth access and pushed the use of telemedicine to deliver acute, chronic, primary, and specialist care. In order to successfully integrate this technology in all areas of healthcare, further study is required to fully understand the best practices and challenges of adoption. Advancement, Opportunities, and Practices in Telehealth Technology discusses advances in the digital health technology and telemedicine domains as well as key challenges, solutions, and opportunities regarding their use in healthcare. The book also introduces critical communication protocols, interconnections, system designs, and developments that are extensively used in the present-day telehealth process. Covering a wide range of topics such as digital twins, big data analytics, and robotics, this reference work is an ideal resource for engineers, industry professionals, hospital administration, policymakers, researchers, scholars, academicians, practitioners, instructors, and students.

Machine Learning and Deep Learning Techniques for Medical Science Apr 29 2020 The application of machine learning is growing exponentially into every branch of business and science, including medical science. This book presents the integration of machine learning (ML) and deep learning (DL) algorithms that can be applied in the healthcare sector to reduce the time required by doctors, radiologists, and other medical professionals for analyzing, predicting, and diagnosing the conditions with accurate results. The book offers important key aspects in the development and implementation of ML and DL approaches toward developing prediction tools and models and improving medical diagnosis. The contributors explore the recent trends, innovations, challenges, and solutions, as well as

case studies of the applications of ML and DL in intelligent system-based disease diagnosis. The chapters also highlight the basics and the need for applying mathematical aspects with reference to the development of new medical models. Authors also explore ML and DL in relation to artificial intelligence (AI) prediction tools, the discovery of drugs, neuroscience, diagnosis in multiple imaging modalities, and pattern recognition approaches to functional magnetic resonance imaging images. This book is for students and researchers of computer science and engineering, electronics and communication engineering, and information technology; for biomedical engineering researchers, academicians, and educators; and for students and professionals in other areas of the healthcare sector. Presents key aspects in the development and the implementation of ML and DL approaches toward developing prediction tools, models, and improving medical diagnosis Discusses the recent trends, innovations, challenges, solutions, and applications of intelligent system-based disease diagnosis Examines DL theories, models, and tools to enhance health information systems Explores ML and DL in relation to AI prediction tools, discovery of drugs, neuroscience, and diagnosis in multiple imaging modalities Dr. K. Gayathri Devi is a Professor at the Department of Electronics and Communication Engineering, Dr. N.G.P Institute of Technology, Tamil Nadu, India. Dr. Kishore Balasubramanian is an Assistant Professor (Senior Scale) at the Department of EEE at Dr. Mahalingam College of Engineering & Technology, Tamil Nadu, India. Dr. Le Anh Ngoc is a Director of Swinburne Innovation Space and Professor in Swinburne University of Technology (Vietnam).

ISGW 2018 Compendium of Technical Papers Oct 28 2022 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.

Indian Emission Norms and Practices Mar 21 2022 In India, vehicle emission standards were implemented in 1991 for gasoline vehicles and in 1992 for diesel vehicles. Since 2000, Euro standards have been followed in India under the name Bharat Stage Emission Standards for four-wheeled vehicles. Since October 2010, Bharat Stage III norms have been implemented throughout India. Bharat Stage IV norms have been in effect in a few cities since April 2010. Bharat Stage IV is expected to be implemented throughout India by April 2017. It is already in use in 13 major cities. Upgrading the emission standards necessitates the upgrading of manufacturing companies' technology, which raises the cost of the vehicle. One of the main reasons for the slow upgrade of emission standards is cost. However, there are some who argue that the cost increase is offset by cost savings in health care because the pollutants that cause disease are reduced as emission standards are raised. Fuels are also important in meeting these emission standards. Fuel specifications have also been aligned with the corresponding European production norms.

Handbook of Research on Technologies and Systems for E-Collaboration During Global Crises Sep 22 2019 Necessity is the mother of invention; challenging times can provide new opportunities that must be detected and exploited at the right moments. The COVID-19 pandemic has demonstrated that it is not only an issue of healthcare but also a challenge for the global

economy, business, and society. Organizations have rapidly deployed technology solutions that enable them to work and service remotely and continue most of their normal operations. The Handbook of Research on Technologies and Systems for E-Collaboration During Global Crises focuses on emerging technologies and systems, strategies, and solutions for e-collaboration. This book assesses the importance of technologies and systems for e-collaboration in dealing with emerging crises such as pandemics. Covering topics such as deep learning processes, machine vision, and profit-sharing models, it is an essential resource for computer scientists, public officials, engineers, students and professors of higher education, healthcare administration, programmers, researchers, and academicians.

Feature Dimension Reduction for Content-Based Image Identification Oct 04 2020 Image data has portrayed immense potential as a foundation of information for numerous applications. Recent trends in multimedia computing have witnessed a rapid growth in digital image collections, resulting in a need for increased image data management. Feature Dimension Reduction for Content-Based Image Identification is a pivotal reference source that explores the contemporary trends and techniques of content-based image recognition. Including research covering topics such as feature extraction, fusion techniques, and image segmentation, this book explores different theories to facilitate timely identification of image data and managing, archiving, maintaining, and extracting information. This book is ideally designed for engineers, IT specialists, researchers, academicians, and graduate-level students seeking interdisciplinary research on image processing and analysis.

Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing May 31 2020 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.
Combating Security Breaches and Criminal Activity in the Digital Sphere Dec 18 2021 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.

Emerging Trends in Science, Engineering and Technology Jun 24 2022 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.

2 Years Maharashtra Civil Services Mains General Studies Solved Papers 1 to 4 (2018 - 2019) with detailed Explanations Oct 24 2019

Mathematical Analysis and Computing Mar 29 2020 This book is a collection of selected papers presented at the International Conference on Mathematical Analysis and Computing (ICMAC 2019) held at Sri Sivasubramaniya Nadar College of Engineering, Chennai, India, from 23–24 December 2019. Having found its applications in game theory, economics, and operations research, mathematical analysis plays an important role in analyzing models of physical systems and provides a sound logical base for problems stated in a qualitative manner. This book aims at disseminating recent advances in areas of mathematical analysis, soft computing, approximation and optimization through original research articles and expository survey papers. This book will be of value to research scholars, professors, and industrialists working in these areas.

Challenges and Risks Involved in Deploying 6G and NextGen Networks Jun 19 2019 There is a need to be aware of the challenges awaiting us in next generation (NextGen) networks in order to take the proper steps to either minimize or eliminate issues as they present themselves. Incorporating artificial intelligence in NextGen networks for privacy and security policies will serve this purpose. It is essential to stay current with these emerging technologies and applications in order to maintain safe and secure communications in the future. Challenges and Risks Involved in Deploying 6G and NextGen Networks explores strategies for the design and deployment of more secured and user-centered NextGen networks through artificial intelligence to enrich user experience. It further investigates the political, social, and geographical challenges involved in realizing these 6G networks and explores ways to improve the security of future potential applications as well as protect user data from illegal access. Covering topics such as deep learning algorithms, aerial network communication, and edge computing, this major reference work is an indispensable resource for regulatory and policy groups, associations and technology groups, government and international bodies, technology executives and technical institutions, management consulting and advisory firms, communication engineers, network engineers, students and educators of higher education, researchers, and academicians.

Biodiesel Fuels Based on Edible and Nonedible Feedstocks, Wastes, and Algae May 23 2022 This second volume of the Handbook of Biodiesel and Petrodiesel Fuels presents a representative sample of the population papers in the field of feedstock-specific biodiesel fuels. The research on feedstocks for biodiesel fuels has first focused on the edible oils as first-generation biodiesel fuels. However, the public concerns about

the competition with foods based on these feedstocks and adverse impact on the ecological diversity and deforestation have resulted in the exploration of nonedible-oil-based biodiesel fuels as second-generation biodiesel fuels in the first instance. Due to the ecological and cost benefits of treating wastes, waste oil-based biodiesel fuels as third-generation biodiesel fuels have emerged. Furthermore, following a series of influential review papers, the research has focused on the algal oil-based biodiesel fuels in recent years. Since the cost of feedstocks in general constitutes 85% of the total biodiesel production costs, the research focused more on improving biomass and lipid productivity in these research fields. Furthermore, since water, CO_2, and nutrients (primarily N and P) have been major ingredients for the algal biomass and lipid production, the research has also intensified in the use of wastewaters and flue gases for algal biomass production to reduce the ecological burdens and the production costs. Part 1 presents a representative sample of the population papers in the field of edible oil-based biodiesel fuels covering major research fronts. It covers soybean oil-based biodiesel fuels, palm oil-based biodiesel fuels, and rapeseed oil-based biodiesel fuels as case studies besides an overview paper. Part 2 presents a representative sample of the population papers in the field of nonedible oil-based biodiesel fuels covering major research fronts. It covers Jatropha oil-based biodiesel fuels, polanga oil-based biodiesel fuels, and moringa oil-based biodiesel fuels as case studies besides an overview paper. Part 3 presents a representative sample of the population papers in the field of waste oil-based biodiesel fuels covering major research fronts. It covers wastewater sludge-based biodiesel fuels, waste cooking oil-based biodiesel fuels, and microbial oil-based biodiesel fuels as case studies besides an overview paper. Part 4 presents a

representative sample of the population papers in the field of algal oil-based biodiesel fuels covering major research fronts. It covers algal biomass production in general, algal biomass production in wastewaters, algal lipid production, hydrothermal liquefaction of algal biomass, algal lipid extraction, and algal biodiesel production besides an overview paper. This book will be useful to academics and professionals in the fields of Energy Fuels, Chemical Engineering, Physical Chemistry, Biotechnology and Applied Microbiology, Environmental Sciences, and Thermodynamics. Ozcan Konur is both a materials scientist and social scientist by training. He has published around 200 journal papers, book chapters, and conference papers. He has focused on the bioenergy and biofuels in recent years. In 2018, he edited 'Bioenergy and Biofuels', that brought together the work of over 30 experts in their respective field. He also edited 'Handbook of Algal Science, Technology, and Medicine' with a strong section on the algal biofuels in 2020.

Internet of Things (IoT) Dec 26 2019 The term IoT, which was first proposed by Kevin Ashton, a British technologist, in 1999 has the potential to impact everything from new product opportunities to shop floor optimization to factory worker efficiency gains, that will power top-line and bottom-line gains. As IoT technology is being put to diversified use, the current technology needs to be improved to enhance privacy and built secure devices by adopting a security-focused approach, reducing the amount of data collected, increasing transparency and providing consumers with a choice to opt out. Therefore, the current volume has been compiled, in an effort to draw the various issues in IoT, challenges faced and existing solutions so far. Key Points: • Provides an overview of basic concepts and technologies of IoT with communication technologies ranging

from 4G to 5G and its architecture. • Discusses recent security and privacy studies and social behavior of human beings over IoT. • Covers the issues related to sensors, business model, principles, paradigms, green IoT and solutions to handle relevant challenges. • Presents the readers with practical ideas of using IoT, how it deals with human dynamics, the ecosystem, the social objects and their relation. • Deals with the challenges involved in surpassing diversified architecture, protocol, communications, integrity and security.

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