Bharathiar University Coimbatore M Sc Computer Science

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Emerging Research in Electronics, Computer Science and Technology - V Sridhar 2013-09-13
PES College of Engineering is organizing an International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT-12) in Mandya and merging the event with Golden Jubilee of the Institute. The Proceedings of the Conference presents high quality, peer reviewed articles from the field of Electronics, Computer Science and Technology. The book is a compilation of research papers from the cutting-edge technologies and it is targeted towards the scientific community actively involved in research activities.

Handbook of Universities - Ashish Kumar 2006
The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country.In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University.It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.

Nature-Inspired Algorithms for Big Data Frameworks - Banati, Hema 2018-09-28
As technology continues to become more sophisticated, mimicking natural processes and phenomena becomes more of a reality. Continued research in the field of natural computing enables an understanding of the world around us, in addition to opportunities for manmade computing to mirror the natural processes and systems that have existed for centuries. Nature-Inspired Algorithms for Big Data Frameworks is a collection of innovative research on the methods and applications of extracting meaningful information from data using algorithms that are capable of handling the constraints of processing time, memory usage, and the dynamic and unstructured nature of data. Highlighting a range of topics including genetic algorithms, data classification, and wireless sensor networks, this book is ideally designed for computer engineers, software developers, IT professionals, academicians, researchers, and upper-level students seeking current research on the application of nature and biologically inspired algorithms for handling challenges posed by big data in diverse environments.

Cases on Smart Learning Environments - Darshan Singh, Abtar 2018-12-28
At a time when ICTs are proliferating various facets of society and human interactivity, optimizing the use of these tools and technologies not only enhances learning but also transforms learning experiences all together, resulting in an increase of effectiveness and quality of education around the globe. As such, teachers are being challenged to implement a wide range of tools, such as mobile learning and augmented reality, to create smarter learning environments inside and outside of the classroom. Cases on Smart Learning Environments explores the potential of SLE tools for enhanced learning outcomes as experienced by educators, learners, and administrators from various learning institutions around the world. This publication presents cases on the real-world implementation of SLEs in 11 countries that span the continents of Asia, Africa, Europe, and North and South America. Featuring coverage on a broad range of topics such as learner engagement, teacher training, and intelligent agent technology, this book is ideally designed for academicians, instructors, instructional designers, librarians, educational stakeholders, and curriculum developers.

Java Programming - M. Praveena 2018-01-01
This book is an introduction to Java programming for beginners. It is tailored for students preparing for the Computer Science, but it is for anyone who wants to learn Java. This is an easy-to-follow textbook that guides the beginning programmer step-by-step through the process of learning Java. This book helps you learn the language basics, AWT, Networking and some chapters on Servlet, JSP, plus covering some analysis. The main obstacle to learning object-oriented programming is the volume of interdependent detail that needs to be learned before even the simplest program can be created. This text eliminates extraneous details early on and stresses object concepts that will provide a basis for students to become expert programmers. Classes, objects, and working programs are introduced at the outset, and programming is presented as extended problem solving, making it easier to understand. Advanced Java Programming is the perfect text for anyone new to Java who wants a comprehensive, easy-to-comprehend reference. The main aim of this book is to provide easy understanding of the concepts for the beginners. The topics covered in this book have been chosen keeping in view the fundamentals ideas required for the students of computer science. Examples have been given at appropriate places.

Real-Time Applications of Machine Learning in Cyber-Physical Systems - Easwaran, Balamurugan 2022-03-11
Technological advancements of recent decades have

reshaped the way people socialize, work, learn, and ultimately live. The use of cyber-physical systems (CPS) specifically have helped people lead their lives with greater control and freedom. CPS domains have great societal significance, providing crucial assistance in industries ranging from security to healthcare. At the same time, machine learning (ML) algorithms are known for being substantially efficient, high performing, and have become a real standard due to greater accessibility, and now more than ever, multidisciplinary applications of ML for CPS have become a necessity to help uncover constructive solutions for real-world problems. Real-Time Applications of Machine Learning in Cyber-Physical Systems provides a relevant theoretical framework and the most recent empirical findings on various real-time applications of machine learning in cyber-physical systems. Covering topics like intrusion detection systems, predictive maintenance, and seizure prediction, this book is an essential resource for researchers, machine learning professionals, independent researchers, scholars, scientists, libraries, and academicians.

Information Systems Reengineering for Modern Business Systems: ERP, Supply Chain and E-Commerce Management Solutions - Valverde, Raul 2012-02-29
Businesses must constantly adapt to a dynamically changing environment that requires choosing an adaptive and dynamic information architecture that has the flexibility to support both changes in the business environment and changes in technology. In general, information systems reengineering has the objective of extracting the contents, data structures, and flow of data and process contained within existing legacy systems in order to reconstitute them into a new form for subsequent implementation. Information Systems Reengineering for Modern Business Systems: ERP, Supply Chain and E-Commerce Management Solutions covers different techniques that could be used in industry in order to reengineer business processes and legacy systems into more flexible systems capable of supporting modern trends such as Enterprise Resource Planning (ERP), supply chain management systems and e-commerce. This reference book also covers other issues related to the reengineering of legacy systems, which include risk management and obsolescence management of requirements.

Handbook of Research on Machine and Deep Learning Applications for Cyber Security - Ganapathi, Padmavathi 2019-07-26
As the advancement of technology continues, cyber security continues to play a significant role in today□s world. With society becoming more dependent on the internet, new opportunities for virtual attacks can lead to the exposure of critical information. Machine and deep learning techniques to prevent this exposure of information are being applied to address mounting concerns in computer security. The Handbook of Research on Machine and Deep Learning Applications for Cyber Security is a pivotal reference source that provides vital research on the application of machine learning techniques for network security research. While highlighting topics such as web security, malware detection, and secure information sharing, this publication explores recent research findings in the area of electronic security as well as challenges and countermeasures in cyber security research. It is ideally designed for software engineers, IT specialists, cybersecurity analysts, industrial experts, academicians, researchers, and post-graduate students.

Fuzzy Analytic Hierarchy Process - Ali Emrouznejad 2017-09-18
This book is the first in the literature to present the state of the art and some interesting and relevant applications of the Fuzzy Analytic Hierarchy Process (FAHP). The AHP is a conceptually and mathematically simple, easily implementable, yet extremely powerful

tool for group decision making and is used around the world in a wide variety of decision situations, in fields such as government, business, industry, healthcare, and education. The aim of this book is to study various fuzzy methods for dealing with the imprecise and ambiguous data in AHP. Features: First book available on FAHP. Showcases state-of-the-art developments. Contains several novel real-life applications. Provides useful insights to both academics and practitioners in making group decisions under uncertainty This book provides the necessary background to work with existing fuzzy AHP models. Once the material in this book has been mastered, the reader will be able to apply fuzzy AHP models to his or her problems for making decisions with imprecise data.

Campus Plus 2014 - Biju Mathew 2014-05-31
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 Aryabhama, 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.

Computational Intelligence and Applications for Pandemics and Healthcare - Kshatri, Sapna Singh 2022-04-08
During the COVID-19 pandemic, computational intelligence and computer-aided diagnosis (CAD) systems have supported the effective treatment of the virus. Artificial intelligence (AI) has been playing a significant role in the rapidly emerging healthcare sector in terms of CAD, software algorithms, hardware implementation, and applications in the medical field. Through this, the constraints of the traditional system must be addressed to innovate and shed light on emerging healthcare technologies. Computational Intelligence and Applications for Pandemics and Healthcare explores the state-of-the-art computational intelligence approaches in medical data and classifies existing computational techniques used in medical areas. It discusses the tactics and methods as well as the limitations and performances of computational intelligence applications for healthcare. The constraints of traditional healthcare systems are addressed by using CAD and computationally-intelligent medical data. Covering topics such as cloud-based monitoring systems, detection and diagnosis, and intelligent medical systems, this book is an excellent resource for computer scientists, government officials, medical students, medical

professionals, hospitals, researchers, and academicians.
Campus Plus 2015 - Biju Mathew 2015-06-01
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 Aryabhama, 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.
Web Usage Mining Techniques and Applications Across Industries - Kumar, A.V. Senthil 2016-08-12
Web usage mining is defined as the application of data mining technologies to online usage patterns as a way to better understand and serve the needs of web-based applications. Because the internet has become a central component in information sharing and commerce, having the ability to analyze user behavior on the web has become a critical component to a variety of industries. Web Usage Mining Techniques and Applications Across Industries addresses the systems and methodologies that enable organizations to predict web user behavior as a way to support website design and personalization of web-based services and commerce. Featuring perspectives from a variety of sectors, this publication is designed for use by IT specialists, business professionals, researchers, and graduate-level students interested in learning more about the latest concepts related to web-based information retrieval and mining.
Agricultural Statistics, Mathematics And Computer Applications - M. Kalpana 2023-04-26
The inclusive book on Agricultural Statistics, Mathematics, and Computer applications explains theoretical aspects and gives in-depth information on various concepts in a sequenced manner. This book consists of Agricultural Statistics, Mathematics and Computer Applications, and agricultural Economics. This book has also brought out multiple Choice Questions in each unit. Unit I – Agricultural Statistics deal with Definition, Frequency distribution Measures of central tendency- Mean, Median, Mode, Geometric mean, Harmonic mean, Measures of dispersion, Range, Quartile deviation, Mean deviation, Standard deviation, Variance, Probability, Conditional probability, Theorem of probability, Bayes theorem, Discrete probability distribution Continuous probability distribution, Distribution- Binomial distribution, Poison distribution, Normal distribution, Sampling methods, Theory of testing hypothesis, Correlation, Regression, Analysis of variance, Design of Experiment Unit II –

Mathematics deals with Real and Complex Numbers, Set Theory, Matrices, Eigen values and Eigen vectors, Vectors, Differential Calculus, Integral Calculus, Beta and Gamma Functions, Double Integral, Ordinary Differential Equations, and Interpolation Unit III – Computer Applications deal with Input Devices, Output Devices, Memory, Hardware Software, Classification, Booting, computer Virus, Operating system, DOS commands, and Types of files Windows, MS Word, MS Excel, MS PowerPoint, MS Access, Computer Programming, Algorithm, Programming language, BASIC, FORTRAN, C language, and Bioinformatics. Unit IV – Agricultural Economics consists of principles of economics, Law of demand, factors of production, supply, Factor-Product relationship, Factor-Factor relationship, Product-Product relationship, Law of Equi-Marginal Returns, Cost concepts, Balance sheet, Type and Systems of farming, Farm budgeting, and Depreciation, Agricultural Marketing, market Classification, Marketed surplus, Price spread, market integration, Agricultural Finance includes Classification of credit, Nationalisation of Banks, Regional Rural Banks (RRB)
Intelligent Systems for Healthcare Management and Delivery - Bouchemal, Nardjes 2018-12-07
With the growing use of new technologies and artificial intelligence (AI) applications, intelligent systems can be used to manage large amounts of existing data in healthcare domains. Having more intelligent methods for accessing data allows medical professionals to more efficiently identify the best medical practices and more concrete solutions for diagnosing and treating a multitude of rare diseases. Intelligent Systems for Healthcare Management and Delivery provides relevant and advanced methodological, technological, and scientific approaches related to the application of sophisticated exploitation of AI, as well as providing insight into the technologies and intelligent applications that have received growing attention in recent years such as medical imaging, EMR systems, and drug development assistance. This publication fosters a scientific debate for new healthcare intelligent systems and sophisticated approaches for enhanced healthcare services and is ideally designed for medical professionals, hospital staff, rehabilitation specialists, medical educators, and researchers.
Handbook of Research on Advances in Data Analytics and Complex Communication Networks - P. Venkata Krishna 2021
"This edited book discusses data analytics and complex communication networks and recommends new methodologies, system architectures, and other solutions to prevail over the current limitations faced by the field"--
Handbook of Research on Advances and Applications of Fuzzy Sets and Logic - Broumi, Said 2022-03-04
Fuzzy logic, which is based on the concept of fuzzy set, has enabled scientists to create models under conditions of imprecision, vagueness, or both at once. As a result, it has now found many important applications in almost all sectors of human activity, becoming a complementary feature and supporter of probability theory, which is suitable for modelling situations of uncertainty derived from randomness. Fuzzy mathematics has also significantly developed at the theoretical level, providing important insights into branches of traditional mathematics like algebra, analysis, geometry, topology, and more. With such widespread applications, fuzzy sets and logic are an important area of focus in mathematics. The Handbook of Research on Advances and Applications of Fuzzy Sets and Logic studies recent theoretical advances of fuzzy sets and numbers, fuzzy systems, fuzzy logic and their generalizations, extensions, and more. This book also explores the applications of fuzzy sets and logic applied to science, technology, and everyday life to further provide research on the subject. This book is ideal for mathematicians, physicists, computer

specialists, engineers, practitioners, researchers, academicians, and students who are looking to learn more about fuzzy sets, fuzzy logic, and their applications.

Artificial Intelligence and IoT-Based Technologies for Sustainable Farming and Smart Agriculture - Tomar, Pradeep 2021-01-08
As technology continues to saturate modern society, agriculture has started to adopt digital computing and data-driven innovations. This emergence of "smart" farming has led to various advancements in the field, including autonomous equipment and the collection of climate, livestock, and plant data. As connectivity and data management continue to revolutionize the farming industry, empirical research is a necessity for understanding these technological developments. Artificial Intelligence and IoT-Based Technologies for Sustainable Farming and Smart Agriculture provides emerging research exploring the theoretical and practical aspects of critical technological solutions within the farming industry. Featuring coverage on a broad range of topics such as crop monitoring, precision livestock farming, and agronomic data processing, this book is ideally designed for farmers, agriculturalists, product managers, farm holders, manufacturers, equipment suppliers, industrialists, governmental professionals, researchers, academicians, and students seeking current research on technological applications within agriculture and farming.

Enterprise Big Data Engineering, Analytics, and Management - Atzmueller, Martin 2016-06-01
The significance of big data can be observed in any decision-making process as it is often used for forecasting and predictive analytics. Additionally, big data can be used to build a holistic view of an enterprise through a collection and analysis of large data sets retrospectively. As the data deluge deepens, new methods for analyzing, comprehending, and making use of big data become necessary. Enterprise Big Data Engineering, Analytics, and Management presents novel methodologies and practical approaches to engineering, managing, and analyzing large-scale data sets with a focus on enterprise applications and implementation. Featuring essential big data concepts including data mining, artificial intelligence, and information extraction, this publication provides a platform for retargeting the current research available in the field. Data analysts, IT professionals, researchers, and graduate-level students will find the timely research presented in this publication essential to furthering their knowledge in the field.

Machine Learning Techniques for Improved Business Analytics - G., Dileep Kumar 2018-07-06
Analytical tools and algorithms are essential in business data and information systems. Efficient economic and financial forecasting in machine learning techniques increases gains while reducing risks. Providing research on predictive models with high accuracy, stability, and ease of interpretation is important in improving data preparation, analysis, and implementation processes in business organizations. Machine Learning Techniques for Improved Business Analytics is a collection of innovative research on the methods and applications of artificial intelligence in strategic business decisions and management. Featuring coverage on a broad range of topics such as data mining, portfolio optimization, and social network analysis, this book is ideally designed for business managers and practitioners, upper-level business students, and researchers seeking current research on large-scale information control and evaluation technologies that exceed the functionality of conventional data processing techniques.

Computational Vision and Bio Inspired Computing - D. Jude Hemanth 2018-02-19
This is the proceedings of the International Conference On Computational Vision and Bio Inspired Computing (ICCVBIC 2017) held at RVS Technical Campus, September 21-22, 2017. It includes papers on state of the art innovations in bio-inspired computing applications, where new algorithms and results are produced and described. Additionally, this volume addresses evolutionary computation paradigms, artificial neural networks and biocomputing. It focuses mainly on research based on visual interference on the basis of biological images. Computation of data sources also plays a major role in routine day-to-day life for the purposes such as video transmission, wireless applications, fingerprint recognition and processing, big data intelligence, automation, human centric recognition systems. With the advantage of processing bio-inspired computations, a variety of computational paradigms can be processed. Finally, this book also treats the formation of neural networks by enabling local connectivity within it with the aid of vision sensing elements. The work also provides potential directions for future research.

Campus Plus 2013 - Biju Mathew 2013-05-01

Agricultural Economics And Extension - R. Parimalarangan 2023-04-26
The inclusive book on 'Agricultural Economics and Extension' explains theoretical aspects and gives an in depth information of various concepts in a sequenced manner. This book consists of five units, such as Agricultural Economics, Agricultural Extension and Computer applications, respectively. This book has also brought out Multiple Choice Questions in each chapter. Agricultural Economics consists of principles of economics, law of diminishing marginal utility, Law of Equi - marginal utility, Indifference curve analysis, Law of demand, consumer's surplus, production, factors of production, supply, Factor-Product relationship, Factor-Factor relationship, Product-Product relationship, Law of Equi-Marginal Returns, Cost concepts, Balance sheet, Type and Systems of farming, Farm budgeting and Depreciation, Agricultural Marketing, market Classification, Marketed surplus, Price spread, market integration, Agricultural Finance includes Classification of credit, Nationalisation of Banks, Regional Rural Banks(RRB),National Bank for Agriculture and Rural Development (NABARD), Reserve bank of India, 3 R's, 5 C's and 7 Ps of credit, Lead Bank Scheme, Crop Insurance schemes. Agricultural Extension deals with the concepts and importance of Extension Education and Sociology, Rural development programmes and Extension teaching methods and contains Communication principles, Cyber Extension, Adoption and Diffusion of Innovation and Capacity building for Extension personnel, farmers, women and youth. Unit III - Computer applications deals with Input Devices, Output Devices, Memory, Hardware Software, Classification, Booting, computer Virus, Operating system, DOS commands, Types of files Windows, MS Word, MS Excel, MS Power Point, MS Access, Computer Programming, Algorithm, Programming language, BASIC, FOTRAN, C language and Bioinformatics. This book is designed for those students who are appearing for various competitive examinations in agricultural and allied sciences.

Techniques and Applications for Advanced Information Privacy and Security: Emerging Organizational, Ethical, and Human Issues - Nemati, Hamid 2009-03-31
"This book provides a thorough understanding of issues and concerns in information technology security"--Provided by publisher.

Handbook of Research on Promoting Business Process Improvement Through Inventory Control Techniques - Shah, Nita H. 2017-12-22
Stock management and control is a critical element to the success and overall financial well-being of an organization. Through the application of innovative practices and technology, businesses are now able to

effectively monitor their operations and manage their inventory by evaluating sales patterns and customer preferences. The Handbook of Research on Promoting Business Process Improvement Through Inventory Control Techniques is a critical scholarly resource that examines optimization techniques, data mining concepts, and genetic algorithms to manage inventory control. Featuring coverage on a broad range of topics such as logistics and supply chain management, stochastic inventory modelling, and inventory management in healthcare, this book is geared towards academicians, practitioners, and researchers seeking various research methods to get optimal ordering policy.

Pattern and Data Analysis in Healthcare Settings - Tiwari, Vivek 2016-07-22
Business and medical professionals rely on large data sets to identify trends or other knowledge that can be gleaned from the collection of it. New technologies concentrate on data's management, but do not facilitate users' extraction of meaningful outcomes. Pattern and Data Analysis in Healthcare Settings investigates the approaches to shift computing from analysis on-demand to knowledge on-demand. By providing innovative tactics to apply data and pattern analysis, these practices are optimized into pragmatic sources of knowledge for healthcare professionals. This publication is an exhaustive source for policy makers, developers, business professionals, healthcare providers, and graduate students concerned with data retrieval and analysis.

Deep Learning and Edge Computing Solutions for High Performance Computing - A. Suresh 2021-01-27
This book provides an insight into ways of inculcating the need for applying mobile edge data analytics in bioinformatics and medicine. The book is a comprehensive reference that provides an overview of the current state of medical treatments and systems and offers emerging solutions for a more personalized approach to the healthcare field. Topics include deep learning methods for applications in object detection and identification, object tracking, human action recognition, and cross-modal and multimodal data analysis. High performance computing systems for applications in healthcare are also discussed. The contributors also include information on microarray data analysis, sequence analysis, genomics based analytics, disease network analysis, and techniques for big data Analytics and health information technology.

Privacy and Security Challenges in Location Aware Computing - Saravanan, P. Shanthi 2021-04-23
Location-aware computing is a technology that uses the location (provides granular geographical information) of people and objects to derive contextual information. Today, one can obtain this location information free of cost through smartphones. Smartphones with location enabled applications have revolutionized the ways in which people perform their activities and get benefits from the automated services. It especially helps to get details of services in less time; wherever the user may be and whenever they want. The need for smartphones and location enabled applications has been growing year after year. Nowadays no one can leave without their phone; the phone seemingly becomes one of the parts of the human body. The individual can now be predicted by their phone and the identity of the phone becomes the person's identity. Though there is a tremendous need for location-enabled applications with smartphones, the debate on privacy and security related to location data has also been growing. Privacy and Security Challenges in Location Aware Computing provides the latest research on privacy enhanced location-based applications development and exposes the necessity of location privacy preservation, as well as issues and challenges related to protecting the location data. It also suggests solutions for enhancing the protection of location privacy and therefore users' privacy as well. The chapters highlight important topic areas such as video surveillance in human tracking/detection, geographical information system design, cyberspace attacks and warfare, and location aware security systems. The culmination of these topics creates a book that is ideal for security analysts, mobile application developers, practitioners, academicians, students, and researchers.

Information and Communication Technologies - Vinu V Das 2010-09-08
This book constitutes the proceedings of the International Conference on Information and Communication Technologies held in Kochi, Kerala, India in September 2010.

Green Building Management and Smart Automation - Solanki, Arun 2019-07-05
Throughout the world, there is an increasing demand on diminishing natural resources in the industrial, transport, commercial, and residential sectors. Of these, the residential sector uses the most energy on such needs as lighting, water heating, air conditioning, space heating, and refrigeration. This sector alone consumes one-third of the total primary energy resources available. By using green building and smart automation techniques, this demand for energy resources can be lowered. Green Building Management and Smart Automation is an essential scholarly publication that provides an in-depth analysis of design technologies for green building and highlights the smart automation technologies that help in energy conservation, along with various performance metrics that are necessary to facilitate a building to be known as a "Green Smart Building." Featuring a range of topics such as environmental quality, energy management, and big data analytics, this book is ideal for researchers, engineers, policymakers, government officials, architects, and students.

Incorporating the Internet of Things in Healthcare Applications and Wearable Devices - Pankajavalli, P. B. 2019-10-11
The internet of things (IoT) has had a major impact on academic and industrial fields. Applying these technologies to healthcare systems reduces medical costs while enriching the patient-centric approach to medicine, allowing for better overall healthcare proficiency. However, usage of IoT in healthcare is still suffering from significant challenges with respect to the cost and accuracy of medical sensors, non-standard IoT system architectures, assorted wearable devices, the huge volume of generated data, and interoperability issues. Incorporating the Internet of Things in Healthcare Applications and Wearable Devices is an essential publication that examines existing challenges and provides solutions for building smart healthcare systems with the latest IoT-enabled technology and addresses how IoT improves the proficiency of healthcare with respect to wireless sensor networks. While highlighting topics including mobility management, sensor integration, and data analytics, this book is ideally designed for computer scientists, bioinformatics analysts, doctors, nurses, hospital executives, medical students, IT specialists, software developers, computer engineers, industry professionals, academicians, researchers, and students seeking current research on how these emerging wireless technologies improve efficiency within the healthcare domain.

Understanding Machine Learning - Dr. Pinaki Ghosh 2023-02-14
Machine learning (ML) is a subfield of AI that allows computers to "self-learn" from data sets without being specifically designed for this purpose. Algorithms that use machine learning can analyse data and figure out what to expect in the future based on what they've

learned. In a nutshell, algorithms and models used in machine learning acquire knowledge via repetition and experimentation. Traditional programming entails a computer engineer writing a set of instructions for a computer to follow in order to convert a given set of input data into a specified set of output data. Most commands follow an IF-THEN format: the computer does something when a given condition is satisfied. Yet, computers may learn from their own experiences and solve issues with little human intervention via a process called machine learning. Machine learning & artificial intelligence are often confused, although they are really very distinct. Machine learning is a branch of Al that allows intelligent systems to independently learn new things from data, although Al as a whole refers to robots that can make choices, acquire new skills, and solve problems in a human-like fashion. This book will explain how machine learning may be used on large datasets to provide accurate results that far beyond those of people. It may help you save time & money on analyses and duties like automating support tickets and data mining from the internal sources and the whole internet, as well as fixing consumer pain points to increase customer happiness.

Campus Plus 2019 - Infokerala Communications Pvt Ltd 2019-05-01
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 Aryabhama, 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.

Advances in Engineering Research and Application - Duy Cuong Nguyen 2022-12-01
The International Conference on Engineering Research and Applications (ICERA 2022), held on December 1-2, 2022, at Thai Nguyen University of Technology in Thai Nguyen, Vietnam, provided an international forum to disseminate information on latest theories and practices in engineering research and applications. The conference focused on original research work in areas including mechanical engineering, materials and mechanics of materials, mechatronics and micro mechatronics, automotive engineering, electrical and electronics engineering, information and communication technology. By disseminating the latest advances in the field, the Proceedings of ICERA 2022, Advances in Engineering Research and Application, assists academics and professionals alike to reshape their thinking on sustainable development.

Integrating the Internet of Things Into Software Engineering Practices - Mala, D. Jeya 2019-01-25
To provide the necessary security and quality assurance activities into Internet of Things (IoT)-based software development, innovative engineering practices are vital. They must be given an even higher level of importance than most other events in the field. Integrating the Internet of Things Into Software Engineering Practices provides research on the integration of IoT into the software development life cycle (SDLC) in terms of requirements management, analysis, design, coding, and testing, and provides security and quality assurance activities to IoT-based software development. The content within this publication covers agile software, language specification, and collaborative software and is designed for analysts, security experts, IoT software programmers, computer and software engineers, students, professionals, and researchers.

Methods, Implementation, and Application of Cyber Security Intelligence and Analytics - Om Prakash, Jena 2022-06-17
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.

Modeling Applications and Theoretical Innovations in Interdisciplinary Evolutionary Computation - Samuelson Hong, Wei-Chiang 2013-03-31
Evolutionary computation has emerged as a major topic in the scientific community as many of its techniques have successfully been applied to solve problems in a wide variety of fields. Modeling Applications and Theoretical Innovations in Interdisciplinary Evolutionary Computation provides comprehensive research on emerging theories and its aspects on intelligent computation. Particularly focusing on breaking trends in evolutionary computing, algorithms, and programming, this publication serves to support professionals, government employees, policy and decision makers, as well as students in this scientific field.

Protocols and Applications for the Industrial Internet of Things - González García, Cristian 2018-04-13
The Internet of Things (IoT) has become a major influence on the development of new technologies and innovations. When utilized properly, these applications can enhance business functions and make them easier to perform. Protocols and Applications for the Industrial Internet of Things discusses and addresses the difficulties, challenges, and applications of IoT in industrial processes and production and work life. Featuring coverage on a broad range of topics such as industrial process control, machine learning, and data mining, this book is geared toward academicians, computer engineers, students, researchers, and professionals seeking current and relevant research on

applications of the IoT.

International Conference on Computer Networks and Communication Technologies - S. Smys 2018-09-17
The book features research papers presented at the International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT 2018), offering significant contributions from researchers and practitioners in academia and industry. The topics covered include computer networks, network protocols and wireless networks, data communication technologies, and network security. Covering the main core and specialized issues in the areas of next-generation wireless network design, control, and management, as well as in the areas of protection, assurance, and trust in information security practices, these proceedings are a valuable resource, for researchers, instructors, students, scientists, engineers, managers, and industry practitioners.

Fuzzy C-mean Clustering using Data Mining - VIGNESH RAMAMOORTHY H 2019-11-28
The goal of traditional clustering is to assign each data point to one and only one cluster. In contrast, fuzzy clustering assigns different degrees of membership to each point. The membership of a point is thus shared among various clusters. This creates the concept of fuzzy boundaries which differs from the traditional concept of well-defined boundaries. In hard clustering, data is divided into distinct clusters, where each data element belongs to exactly one cluster. In fuzzy clustering (also referred to as soft clustering), data elements can belong to more than one cluster, and associated with each element is a set of membership levels. These indicate the strength of the association between that data element and a particular cluster. Fuzzy clustering is a process of assigning these membership levels, and then using them to assign data elements to one or more clusters. This algorithm uses the FCM traditional algorithm to locate the centers of clusters for a bulk of data points. The potential of all data points is being calculated with respect to specified centers. The availability of dividing the data set into large number of clusters will slow the processing time and needs more memory size for the program. Hence traditional clustering should device the data to four clusters and each data point should be located in one specified cluster .Imprecision in data and information gathered from and about our environment is either statistical(e.g., the outcome of a coin toss is a matter of chance) or no statistical (e.g., "apply the brakes pretty soon"). Many algorithms can be implemented to develop clustering of data sets. Fuzzy C-mean clustering (FCM) is efficient and common algorithm. We are tuning this algorithm to get a solution for the rest of data point which omitted because of its farness from all clusters. To develop a high performance algorithm that sort and group data set in variable number of clusters to use this data in control and managing of those clusters.