

Distributed Component Architecture Sudha Sadasivam

Research on artificial life is critical to solving various dynamic obstacles individuals face on a daily basis. From electric wheelchairs to navigation, artificial life can play a role in improving both the simple and complex aspects of civilian life. The Handbook of Research on Investigations in Artificial Life Research and Development is a vital scholarly reference source that examines emergent research in handling real-world problems through the application of various computation technologies and techniques. Examining topics such as computational intelligence, multi-agent systems, and fuzzy logic, this publication is a valuable resource for academicians, scientists, researchers, and individuals interested in artificial intelligence developments.

As a society that relies on technology to thrive, we face a growing number of potentially catastrophic threats to network security daily. DATABASE SECURITY delivers the know-how and skills that today's professionals must have to protect their company's technology infrastructures, intellectual property, and future prosperity. From database installation and testing to auditing and SQL Injection, this text delves into the essential processes and protocols required to prevent intrusions, and supports each topic with real-world examples that help future IT professionals understand their critical responsibilities. Unlike most texts on database security, which take a computer scientist's analytical approach, Database Security focuses on implementation, and was written expressly for the expanding field of Information Technology careers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Due to the complexity, and heterogeneity of the smart grid and the high volume of information to be processed, artificial intelligence techniques and computational intelligence appear to be some of the enabling technologies for its future development and success. The theme of the book is "Making pathway for the grid of future" with the emphasis on trends in Smart Grid, renewable interconnection issues, planning-operation-control and reliability of grid, real time monitoring and protection, market, distributed generation and power distribution issues, power electronics applications, computer-IT and signal processing applications, power apparatus, power engineering education and industry-institute collaboration. The primary objective of the book is to review the current state of the art of the most relevant artificial intelligence techniques applied to the different issues that arise in the smart grid development.

This book focuses on differential privacy and its application with an emphasis on technical and application aspects. This book also presents the most recent research on differential privacy with a theory perspective. It provides an approachable strategy for researchers and engineers to implement differential privacy in real world applications. Early chapters are focused on two major directions, differentially private data publishing and differentially private data analysis. Data publishing focuses on how to modify the original dataset or the queries with the guarantee of differential privacy. Privacy data analysis concentrates on how to modify the data analysis algorithm to satisfy differential privacy, while retaining a high mining accuracy. The authors also introduce several applications in real world applications, including recommender systems and location privacy Advanced level students in computer science and engineering, as well as researchers and professionals working in privacy preserving, data mining, machine learning and data analysis will find this book useful as a reference.

Engineers in database, network security, social networks and web services will also find this book useful.

Wide Area Monitoring, Protection and Control Systems

Innovations in Bio-Inspired Computing and Applications

Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications

Contemporary Advances in Innovative and Applicable Information Technology

A Practical Guide to A/B Testing

Proceedings of the 9th International Conference on Innovations in Bio-Inspired Computing and Applications (IBICA 2018) held in Kochi, India during December 17-19, 2018

Proceedings of the Second International Conference on SCI 2018, Volume 1

This book constitutes the refereed proceedings of the 9th International Conference on Intelligent Computing, ICIC 2013, held in Nanning, China, in July 2013. The 192 revised full papers presented in the three volumes LNCS 7995, LNAI 7996, and CCIS 375 were carefully reviewed and selected from 561 submissions. The papers in this volume (CCIS 375) are organized in topical sections on Neural Networks; Systems Biology and Computational Biology; Computational Genomics and Proteomics; Knowledge Discovery and Data Mining; Evolutionary Learning and Genetic Algorithms; Machine Learning Theory and Methods; Biomedical Informatics Theory and Methods; Particle Swarm Optimization and Niche Technology; Unsupervised and Reinforcement Learning; Intelligent Computing in Bioinformatics; Intelligent Computing in Finance/Banking; Intelligent Computing in Petri Nets/Transportation Systems; Intelligent Computing in Signal Processing; Intelligent Computing in Pattern Recognition; Intelligent Computing in Image Processing; Intelligent Computing in Robotics; Intelligent Computing in Computer Vision; Special Session on Biometrics System and Security for Intelligent Computing; Special Session on Bio-inspired Computing and Applications; Computer Human Interaction using Multiple Visual Cues and Intelligent Computing; Special Session on Protein and Gene Bioinformatics: Analysis, Algorithms and Applications.

With the immense amount of data that is now available online, security concerns have been an issue from the start, and have grown as new technologies are increasingly integrated in data collection, storage, and transmission. Online cyber threats, cyber terrorism, hacking, and other cybercrimes have begun to take advantage of this information that can be easily accessed if not properly handled. New privacy and security measures have been developed to address this cause for concern and have become an essential area of research within the past few years and into the foreseeable future. The ways in which data is secured and privatized should be discussed in terms of the technologies being used, the methods and models for security that have been developed, and the ways in which risks can be detected, analyzed, and mitigated. The Research Anthology on Privatizing and Securing Data reveals the latest tools and technologies for privatizing and securing data across different technologies and industries. It takes a deeper dive into both risk detection and mitigation, including an analysis of cybercrimes and cyber threats, along with a sharper focus on the technologies and methods being actively implemented and utilized to secure data online. Highlighted topics include information governance and privacy, cybersecurity, data protection, challenges in big data, security threats, and more. This book is essential for data analysts, cybersecurity professionals, data scientists, security analysts, IT specialists, practitioners, researchers, academicians, and students interested in the latest trends and technologies for privatizing and securing data.

This practical guide for students, researchers and practitioners offers real world guidance for data-driven decision making and innovation.

The international conference on Advances in Computing and Information technology (ACITY 2012) provides an excellent international forum for both academics and professionals for sharing knowledge and results in theory, methodology and applications of Computer Science and Information Technology. The Second International Conference on Advances in Computing and Information technology (ACITY 2012), held in Chennai, India, during July 13-15, 2012, covered a number of topics in all major fields of Computer Science and Information

Technology including: networking and communications, network security and applications, web and internet computing, ubiquitous computing, algorithms, bioinformatics, digital image processing and pattern recognition, artificial intelligence, soft computing and applications. Upon a strength review process, a number of high-quality, presenting not only innovative ideas but also a founded evaluation and a strong argumentation of the same, were selected and collected in the present proceedings, that is composed of three different volumes.

Data-intensive Text Processing with MapReduce

Proceedings of ICCAIIT 2018

Breeding Insect Resistant Crops for Sustainable Agriculture

Smart Secure Systems – IoT and Analytics Perspective

Middle Grades Research Journal

Database Security

Fifty Years of Indian Classical Music and Dance in Singapore

Big data technologies are used to achieve any type of analytics in a fast and predictable way, thus enabling better human and machine level decision making. Principles of distributed computing are the keys to big data technologies and analytics. The mechanisms related to data storage, data access, data transfer, visualization and predictive modeling using distributed processing in multiple low cost machines are the key considerations that make big data analytics possible within stipulated cost and time practical for consumption by human and machines. However, the current literature available in big data analytics needs a holistic perspective to highlight the relation between big data analytics and distributed processing for ease of understanding and practitioner use. This book fills the literature gap by addressing key aspects of distributed processing in big data analytics. The chapters tackle the essential concepts and patterns of distributed computing widely used in big data analytics. This book discusses also covers the main technologies which support distributed processing. Finally, this book provides insight into applications of big data analytics, highlighting how principles of distributed computing are used in those situations. Practitioners and researchers alike will find this book a valuable tool for their work, helping them to select the appropriate technologies, while understanding the inherent strengths and drawbacks of those technologies.

This superbly illustrated A-Z guide to modern and traditional Indian herbal remedies brings together information from numerous authoritative sources in the form of a highly structured and well-written reference work. Entries for each medicinal plant describe classical Ayurvedic and Unani uses, compare modern findings and applications, together with their pharmacology and therapeutic principles in an evidence-based approach. Information sources include: German Commission E, US Pharmacopoeia/National Formulary, and the WHO. The resulting work highlights the potential of Indian herbs for Western medicine by placing findings on a scientific platform. Over 200 full-colour photographs and 50 drawings illustrate the plants. Includes ayurvedic herbal drugs More than 150 general and more than 500 plant species are covered Easy-to-use and highly structured entries Detailed information on traditional use and modern evidence-based medical application

The papers in this volume provide a unified approach to the design of underground structures in stratified coal and mineral deposits. They include examples of underground structure design in coal and evaporite mines, and case histories of performance of underground structures.

The book is a collection of high-quality peer-reviewed research papers presented in the Proceedings of International Conference on Power Electronics and Renewable Energy Systems (ICPERES 2014) held at Rajalakshmi Engineering College, Chennai, India. These research papers provide the latest developments in the broad area of Power Electronics and Renewable Energy. The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced

technologies.

AISGSC 2019

Volume 10 #2

Proceedings of the Second International Conference on Advances in Computing and Information Technology (ACITY) July 13-15, 2012, Chennai, India -

Pattern Recognition and Image Analysis

The Enabler for Smarter Grids

Handbook of Research on Investigations in Artificial Life Research and Development

Proceedings of International Conference on Artificial Intelligence, Smart Grid and Smart City Applications

This book highlights recent research on bio-inspired computing and its various innovative applications in Information and Communication Technologies. It presents 50 high-quality papers from the 9th International Conference on Innovations in Bio-Inspired Computing and Applications (IBICA 2018) and 7th World Congress on Information and Communication Technologies (WICT 2018), which was held at Toc H Institute of Science and Technology (TIST) on December 17–19, 2018. IBICA-WICT 2018 was a premier conference and brought together researchers, engineers and practitioners whose work involved bio-inspired computing, computational intelligence and their applications in information security, real-world contexts etc. Including contributions by authors from 22 countries, the book offers a valuable reference guide for all researchers, students and practitioners in the fields of Computer Science and Engineering.

This book reviews and synthesizes the recent advances in exploiting host plant resistance to insects, highlighting the role of molecular techniques in breeding insect resistant crops. It also provides an overview of the fascinating field of insect-plant relationships, which is fundamental to the study of host-plant resistance to insects. Further, it discusses the conventional and molecular techniques utilized/useful in breeding for resistance to insect-pests including back-cross breeding, modified population improvement methods for insect resistance, marker-assisted backcrossing to expedite the breeding process, identification and validation of new insect-resistance genes and their potential for utilization, genomics, metabolomics, transgenesis and RNAi. Lastly, it analyzes the successes, limitations and prospects for the development of insect-resistant cultivars of rice, maize, sorghum and millet, cotton, rapeseed, legumes and fruit crops, and highlights strategies for management of insect biotypes that limit the success and durability of insect-resistant cultivators in the field. Arthropod pests act as major constraints in the agro-ecosystem. It has been estimated that arthropod pests may be destroying around one-fifth of the global agricultural production/potential production every year. Further, the losses are considerably higher in the developing tropics of Asia and Africa, which are already battling severe food shortage. Integrated pest management (IPM) has emerged as the dominant paradigm for minimizing damage by the insects and non-insect pests over the last 50 years. Pest resistant cultivars represent one of the most environmentally benign, economically viable and ecologically sustainable options for utilization in IPM programs. Hundreds of insect-resistant cultivars of rice, wheat, maize, sorghum, cotton, sugarcane and other crops have been developed worldwide and are extensively grown for increasing and/or stabilizing crop productivity. The annual economic value of arthropod resistance genes developed in global agriculture has been estimated to be greater than US\$ 2 billion Despite the impressive achievements and even greater potential in minimizing pest- related losses, only a handful of books have been published on the topic of host-plant resistance to insects. This book fills this wide gap in the literature on breeding insect- resistant crops. It is aimed at plant breeders, entomologists, plant biotechnologists and IPM experts, as well as those working on sustainable agriculture and food security.

"This book gives an overview of the technologies used for enterprise application integration. It covers all the aspects of middleware. It introduces its readers to basic concepts of middleware, state-of-art middleware technologies and middleware services. Sample programs to work on different object middleware technologies like RMI, CORBA, DCOM and EJB are also provided in this book." -- Publisher's description.

Given our rapidly growing population, the need for judicious management of essential natural resources is becoming a major challenge for planners, managers and scientists/researchers. This book presents a multidisciplinary approach to managing water, energy and bio-resources, described in papers contributed by distinguished scientists and academics working at reputed universities and institutions around the globe. It includes 28 chapters grouped into three sections: Water Resources Management; Energy and Bio-resources Management; and Climate and Natural Resources Management, examining case studies from all over the world. These contributions address current challenges, offering modern techniques for managing these resources in various geographical regions. This volume will provide a valuable asset for researchers and students, managers, environmentalists, hydrologists, water resource and energy managers, governmental and other regulatory bodies dealing with water, energy and bio-resources.

Distributed Computing in Big Data Analytics

Transgenesis and Secondary Metabolism /.

Concepts, Technologies and Applications

Microbial Biotechnology in Agriculture and Aquaculture, Vol. 2

Proceedings of ICPERES 2014

9th Iberian Conference, IbPRIA 2019, Madrid, Spain, July 1–4, 2019, Proceedings, Part I

Fundamentals, Advances and Applications

This handbook provides an overarching view of cyber security and digital forensic challenges related to big data and IoT environment, prior to reviewing existing data mining solutions and their potential application in big data context, and existing authentication and access control for IoT devices. An IoT access control scheme and an IoT forensic framework is also presented in this book, and it explains how the IoT forensic framework can be used to guide investigation of a popular cloud storage service. A distributed file system forensic approach is also presented, which is used to guide the investigation of Ceph. Minecraft, a Massively Multiplayer Online Game, and the Hadoop distributed file system environment are also forensically studied and their findings reported in this book. A forensic IoT source camera identification algorithm is introduced, which uses the camera's sensor pattern noise from the captured image. In addition to the IoT access control and forensic frameworks, this handbook covers a cyber defense triage process for nine advanced persistent threat (APT) groups targeting IoT infrastructure, namely: APT1, Molerats, Silent Chollima, Shell Crew, NetTraveler, ProjectSauron, CopyKittens, Volatile Cedar and Transparent Tribe. The characteristics of remote-controlled real-world Trojans using the Cyber Kill Chain are also examined. It introduces a method to leverage different crashes discovered from two fuzzing approaches, which can be used to enhance the effectiveness of fuzzers. Cloud computing is also often associated with IoT and big data (e.g., cloud-enabled IoT systems), and hence a survey of the cloud security literature and a survey of botnet detection approaches are presented in the book. Finally, game security solutions are studied and explained how one may circumvent such solutions. This handbook targets the security, privacy and forensics research community, and big data research community, including policy makers and government agencies, public and private organizations policy makers. Undergraduate and postgraduate students enrolled in cyber security and forensic programs will also find this handbook useful as a reference.

Wide area monitoring, protection and control systems (WAMPACs) have been recognized as the most promising enabling technologies to meet the challenges of modern electric power transmission systems, where reliability, economics, environmental and other social objectives must be balanced to optimize the grid assets and satisfy growing electrical demand. This book provides an overview of this emerging technology. Topics covered include: * Wide Area Measurement System: The Enabler for Smarter Transmission * Reliability-Based Substation Monitoring Systems Placement * System Integrity Protection Scheme Based on PMU Technology * New Methodologies for Large-Scale Power System Dynamic Analysis * A Fuzzy-based Knowledge Discovery Paradigm for on-line Optimal Power Flow Analysis * False data injection attacks and countermeasures for wide area measurement system

This book gathers selected research papers presented at the International Conference on Recent Trends in Machine Learning, IOT, Smart Cities & Applications (ICMISC 2020), held on 29-30 March 2020 at CMR Institute of Technology, Hyderabad, Telangana, India. Discussing current trends in machine learning, Internet of things, and smart cities applications, with a focus on multi-disciplinary research in the area of artificial intelligence and cyber-physical systems, this book is a valuable resource for scientists, research scholars and PG students wanting formulate their research ideas and find the future directions in these areas. Further, it serves as a reference work anyone wishing to understand the latest technologies used by practicing engineers around the globe.

This book presents an in-depth, science-based approach to applying key project-management and spatial tools and practices in environmental projects. Providing important data for those considering projects that balance social-economic growth against minimizing its ill-effects on planet Earth, the book discusses various aspects of environmental engineering, as well as formula and analytical approaches required for more informed decision-making. Beginning with a broad overview of the factors and features of environmental processes and management, the book then clearly details the general application of fundamental processes, the characteristics of the different systems in which they occur, and the way in which these factors influence process dynamics, environmental systems, and their possible remedies. While primarily intended for professionals responsible for the management of environmental projects or interested in improving the overall efficiency of such projects, it is also useful for managers in the private, public, and not-for-profit sectors. Further, it is a valuable resource for students at both undergraduate and postgraduate levels, and an indispensable guide for anyone wanting to develop their skills in modern environmental management and related techniques.

Guide to Intrusion Detection and Prevention Systems

Medical Big Data and Internet of Medical Things

Component Based Technology

Advances in Computing and Information Technology

Management of Water, Energy and Bio-resources in the Era of Climate Change: Emerging Issues and Challenges

Research Anthology on Privatizing and Securing Data

Tools and Practices

This 2-volume set constitutes the refereed proceedings of the 9th Iberian Conference on Pattern Recognition and Image Analysis, IbPRIA 2019, held in Madrid, Spain, in July 2019. The 99 papers in these volumes were carefully reviewed and selected from 137 submissions. They are organized in topical sections named: Part I: best ranked papers; machine learning; pattern recognition; image processing and representation. Part II:

biometrics; handwriting and document analysis; other applications.

The book enriches the literature on different sub-domains of applied information technology. The ICCAIIT Proceedings presents the high quality research papers presented at ICCAIIT 2018. The contributions cover the contemporary issues in data analytics, computational intelligence, nature inspired computing, cyber physical systems, cloud computing, social network and intelligent computing on climate change. The volume is an important resource for educationists, academics, scholars and practitioners from both the public and private sectors.

Market_Desc: The book is useful for the following readers:- Undergraduate students in IT and CSE courses. This is offered as a core paper in autonomous colleges like PSG College of Technology (CSE & IT) and Coimbatore

Institute of Technology· BSc (CT) students as an elective· MCA students of Autonomous Colleges like PSG College of Technology, Avinashilingam Deemed University and CIT· This subject is also offered as a core subject in VI Semester for BE (IT) students of Anna University. · Currently there are separate books used as reference for DCOM, CORBA and J2EE. Hence this book will serve as a single text book for the subject.· This book can be used as a reference to programmers in Component Technology· This book can be used as a reference by students to pursue their research in Grid Technology and Advanced Software Architecture· Helpful for research-oriented students to do mini-project in the area of Component Technology· It will be useful for software architects, system integrators and internet solution developers and consultants Special Features: · This book can be used as a reference for the readers who want to get an introduction as well as a detailed knowledge of component technology· It can be used by readers who want to get an in depth knowledge on different Distributed Object Technologies namely RMI, CORBA, DCOM and EJB· It has example programs for each type of technology. If possible, a CD with examples can be supplied for the readers to execute and see the examples· Currently three separate books are used as a reference for CORBA, DCOM and EJB. No single text book is available for this purpose. The proposed book will help to overcome this disadvantage· It can be used by software engineers and by academicians About The Book: Distributed Software Systems are subject to frequent changes. Middleware plays an important role in the development of evolvable systems. RMI, CORBA, DCOM and EJB are mechanisms to create, deploy and deal with object-oriented components in a distributed environment. Java s contribution in distributed computing is to provide platform-independent, low-level code that can be dynamically loaded and linked. CORBA provides platform and programming language independence in a heterogeneous distributed environment. EJB and DCOM are distributed component models put forth by Sun Microsystems and Microsoft respectively. This book brings together the major object models used in distributed computing - RMI, CORBA, DCOM and EJB. This book is beneficial for all IT professionals and students. This book aims at explaining the features of DCOM, CORBA, RMI, CCM, EJB, and JavaBeans.

Our world is being revolutionized by data-driven methods: access to large amounts of data has generated new insights and opened exciting new opportunities in commerce, science, and computing applications. Processing the enormous quantities of data necessary for these advances requires large clusters, making distributed computing paradigms more crucial than ever. MapReduce is a programming model for expressing distributed computations on massive datasets and an execution framework for large-scale data processing on clusters of commodity servers. The programming model provides an easy-to-understand abstraction for designing scalable algorithms, while the execution framework transparently handles many system-level details, ranging from scheduling to synchronization to fault tolerance. This book focuses on MapReduce algorithm design, with an emphasis on text processing algorithms common in natural language processing, information retrieval, and machine learning. We introduce the notion of MapReduce design patterns, which represent general reusable solutions to commonly occurring problems across a variety of problem domains. This book not only intends to help the reader "think in MapReduce", but also discusses limitations of the programming model as well. This volume is a printed version of a work that appears in the Synthesis Digital Library of Engineering and Computer Science. Synthesis Lectures provide concise, original presentations of important research and development topics, published quickly, in digital and print formats. For more information visit www.morganclaypool.com

Handbook of Big Data and IoT Security

ICMISC 2020

Strata Mechanics

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

The Journal of the Computer Society of India

First International Conference on Digital Image Processing and Pattern Recognition, DPPR 2011, Tirunelveli, Tamil Nadu, India, September 23-25, 2011, Proceedings

Software Engineering (Sie) 7E

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

Plant genetic engineering has revolutionized our ability to produce genetically improved plant varieties. A large portion of our major crops have undergone genetic improvement through the use of recombinant DNA techniques in which microorganisms play a vital role. The cross-kingdom transfer of genes to incorporate novel phenotypes into plants has u

Middle Grades Research Journal (MGRJ) is a refereed, peer reviewed journal that publishes original studies providing both empirical and theoretical frameworks that focus on middle grades education. A variety of articles are published quarterly in March, June, September, and December of each volume year.

Intrusion detection is the process of monitoring the events occurring in a computer system or network & analyzing them for signs of possible incidents, which are viol. or imminent threats of viol. of computer security policies, acceptable use policies, or standard security practices. Intrusion prevention is the process of performing intrusion detection to stop detected possible incidents. Intrusion detection & prevention systems (IDPS) record info. related to observed events, notify security admin. of important events, & produce reports. This pub. provides recommend. for designing, implementing, configuring, securing, monitoring, & maintaining IDPS's. Discusses 4 types of IDPS's: Network-Based; Wireless; Network Behavior Analysis; & Host-Based.

Emerging Intelligent Computing Technology and Applications

Environmental Processes and Management

Congress on Intelligent Systems

Differential Privacy and Applications

Trustworthy Online Controlled Experiments

Distributed Component Architecture

Indian Herbal Remedies

This book is a collection of selected papers presented at the First Congress on Intelligent Systems (CIS 2020), held in New Delhi, India during September 5 – 6, 2020. It includes novel and innovative work from experts, practitioners, scientists and decision-makers from academia and industry. It covers topics such as Internet of Things, information security, embedded systems, real-time systems, cloud computing, big data analysis, quantum computing, automation systems, bio-inspired intelligence, cognitive systems, cyber physical systems, data analytics, data/web mining, data science, intelligence for security, intelligent decision making systems, intelligent information processing, intelligent transportation, artificial intelligence for machine vision, imaging sensors technology, image segmentation, convolutional neural network, image/video classification, soft computing for machine vision, pattern recognition, human computer interaction, robotic devices and systems, autonomous vehicles, intelligent control systems, human motor control, game playing, evolutionary algorithms, swarm optimization, neural network, deep learning, supervised learning, unsupervised learning, fuzzy logic, rough sets, computational optimization, and neuro fuzzy systems.

Market_Desc: · Undergraduate Students in IT and CSE Courses· BSC (CT) Students· MCA Students of Autonomous Colleges · BE (IT) Students · Software Architects· System Integrators · Internet Solution Developers· Consultants Special Features: · This is a unique book integrating concepts of CORBA, DCOM and EJB. It eliminates the need to refer separate book on these topics. · Comprehensive question bank at the end of each chapter and after each section. · Fully solved Model Question Papers.· Chapter 12 totally devoted to programming examples. · Provides in depth knowledge of component technology and different Distributed Object Technologies namely RMI, RMI/IIOP, CORBA and DCOM and component models like JavaBeans, CCM, .NET and EJB. · A separate chapter on introduction to Service-Oriented Architecture.

About The Book: Component software technology deals with the idea of breaking large, complex software applications into a series of pre-built and easily developed, understood, and changeable software modules. This facilitates cheap and quick delivery of software solutions through reuse. The goal of this book is to introduce the concept of distributed components and how they work. This book brings together the major object models used in distributed computing - RMI, CORBA, DCOM and EJB. It also describes the principles of component technology and how it can be applied to enterprise systems. This book is beneficial for all IT Professionals and students who are interested in gaining extensive information about distributed object systems and component technology.

Mobile devices, such as smart phones, have achieved computing and networking capabilities comparable to traditional personal computers. Their successful consumerization has also become a source of pain for adopting users and organizations. In particular, the widespread presence of information-stealing applications and other types of mobile malware raises substantial security and privacy concerns.

Android Malware presents a systematic view on state-of-the-art mobile malware that targets the popular Android mobile platform. Covering key topics like the Android malware history, malware behavior and classification, as well as, possible defense techniques.

The proceedings covers advanced and multi-disciplinary research on design of smart computing and informatics. The theme of the book broadly focuses on various innovation paradigms in system knowledge, intelligence and sustainability that may be applied to provide realistic solution to varied problems in society, environment and industries. The volume publishes quality work pertaining to the scope of the conference which is extended towards deployment of emerging computational and knowledge transfer approaches, optimizing solutions in varied disciplines of science, technology and healthcare.

Proceedings of CIS 2020, Volume 1

Advances, Challenges and Applications

Advances in Digital Image Processing and Information Technology

Rational Western Therapy, Ayurvedic and Other Traditional Usage, Botany

Edge Computing

Kala Manjari

Fundamentals of Data Structures in Pascal

This book constitutes the refereed proceedings of the First International Conference on Digital Image Processing and Pattern Recognition, DPPR 2011, held in Tirunelveli, India, in September 2011. The 48 revised full papers were carefully reviewed and selected from about 400 submissions. The conference brought together leading researchers, engineers and scientists in the domain of Digital Image Processing and Pattern Recognition. The papers cover all theoretical and practical aspects of the field and present new advances and current research results in two tracks, namely: digital image processing and pattern recognition, and computer science, engineering and information technology.

Big data and the Internet of Things (IoT) play a vital role in prediction systems used in biological and medical applications, particularly for resolving issues related to disease biology at different scales. Modelling and integrating medical big data with the IoT helps in building effective prediction systems for automatic recommendations of diagnosis and treatment. The ability to mine, process, analyse, characterize, classify and cluster a variety and wide volume of medical data is a challenging task. There is a great demand for the design and development of methods dealing with capturing and automatically analysing medical data from imaging systems and IoT sensors. Addressing analytical and legal issues, and research on integration of big data analytics with respect to clinical practice and clinical utility, architectures and clustering techniques for IoT data processing, effective frameworks for removal of misclassified instances, practicality of big data analytics, methodological and technical issues, potential of Hadoop in managing healthcare data is the need of the hour. This book integrates different aspects used in the field of healthcare such as big data, IoT, soft computing, machine learning, augmented reality, organs on chip, personalized drugs, implantable electronics, integration of bio-interfaces, and wearable sensors, devices, practical body area network (BAN) and architectures of web systems. Key Features: Addresses various applications of Medical Big Data and Internet of Medical Things in real time environment Highlights recent innovations, designs, developments and topics of interest in machine learning techniques for classification of medical data Provides background and solutions to existing challenges in Medical Big Data and Internet of Medical Things Provides optimization techniques and programming models to parallelize the computationally intensive tasks in data mining of medical data Discusses interactions, advantages, limitations, challenges and future perspectives of IoT based remote healthcare monitoring systems. Includes data privacy and security analysis of cryptography methods for the Web of Medical Things (WoMT) Presents case studies on the next generation medical chair, electronic nose and pill cam are also presented.

This reference text presents the state-of-the-art in edge computing, its primitives, devices and simulators, applications, and healthcare-based case studies. The text provides integration of blockchain with edge computing systems and integration of edge with Internet of Things (IoT) and cloud computing. It will facilitate readers to setup edge-based environment and work with edge analytics. It covers important topics, including cluster computing, fog computing, networking architecture, edge computing simulators, edge analytics, privacy-preserving schemes, edge computing with blockchain, autonomous vehicles, and cross-domain authentication. Aimed at senior undergraduate, graduate students and professionals in the fields of electrical engineering, electronics engineering, computer science, and information technology, this text: Discusses edge data storage security with case studies and blockchain integration with the edge computing system Covers theoretical methods with the help of applications, use cases, case studies, and examples Provides healthcare real-time case studies elaborated by utilizing the virtues of homomorphic encryption Discusses real-time interfaces, devices, and simulators in detail

Smart Intelligent Computing and Applications

9th International Conference, ICIC 2013, Nanning, China, July 25-29, 2013. Proceedings

Power Electronics and Renewable Energy Systems

Android Malware

Middleware & Enterprise Integration Technologies