C S R Prabhu Grid And Cluster Computing

Big data has always been a major challenge in geoinformatics as geospatial data come in various types and formats, new geospatial data are acquired very fast, and geospatial databases are inherently very large. And while there have been advances in hardware and software for handling big data, they often fall short of handling geospatial big data efficiently and effectively. Big Data: Techniques and Technologies in Geoinformatics tackles these challenges head on, integrating coverage of techniques and technologies for storing, managing, and computing geospatial big data. Providing a perspective based on analysis of time, applications, and resources, this book familiarizes readers with geospatial applications that fall under the category of big data. It explores new trends in geospatial data collection, such as geo-crowdsourcing and advanced data collection technologies such as LiDAR point clouds. The book features a range of topics on big data techniques and technologies in geoinformatics including distributed computing, geospatial data analytics, social media, and volunteered geographic information. With chapters contributed by experts in geoinformatics and in domains such as computing and engineering, the book provides an understanding of the challenges and issues of big data in

geoinformatics applications. The book is a single collection of current and emerging techniques, technologies, and tools that are needed to collect, analyze, manage, process, and visualize geospatial big data.
This book provides a comprehensive picture of fog computing technology, including of fog architectures, latency aware application management issues with real time requirements, security and privacy issues and fog analytics, in wide ranging application scenarios such as M2M device communication, smart homes, smart vehicles, augmented reality and transportation management. This book explores the research issues involved in the application of traditional shallow machine learning and deep learning techniques to big data analytics. It surveys global research advances in extending the conventional unsupervised or clustering algorithms, extending supervised and semi-supervised algorithms and association rule mining algorithms to big data Scenarios. Further it discusses the deep learning applications of big data analytics to fields of computer vision and speech processing, and describes applications such as semantic indexing and data tagging. Lastly it identifies 25 unsolved research problems and research directions in fog computing, as well as in the context of applying deep learning techniques to big data analytics, such as dimensionality reduction in high-dimensional data and improved

formulation of data abstractions along with possible directions for their solutions.

Based on research and industry experience, this book structures the issues pertaining to grid computing security into three main categories: architecture-related, infrastructure-related, and management-related issues. It discusses all three categories in detail, presents existing solutions, standards, and products, and pinpoints their shortcomings and open questions. Together with a brief introduction into grid computing in general and underlying security technologies, this book offers the first concise and detailed introduction to this important area, targeting professionals in the grid industry as well as students.

GRID AND CLUSTER COMPUTINGPHI Learning Pvt. Ltd.

13th International Conference, ICT Innovations 2021, Virtual Event, September 27–28, 2021, Revised Selected Papers

Wacky Encounters in Exotic Lands

Advances in Computational and Bio-Engineering

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

31st International Conference, ISC High Performance 2016, Frankfurt, Germany, June 19-23, 2016, Proceedings

Jugaad Innovation

The Third Edition of this well-received text analyses the fundamental concepts of data warehousing, data marts, and OLAP. The author discusses, in an easy-to-understand language, important topics such as data mining, how to build a data warehouse, and potential applications of data warehousing technology in government. Besides, the text compares and contrasts the currently available software tools used to design and develop data warehouses. While retaining the six existing case studies, it gives four new case studies: □ HARBOR, A Highly Available Data Warehouse □ A Typical Business Data Warehouse for a Trading Company □ Customer Data Warehouse for the World's First and Largest Online Bank in the United Kingdom □ A German Supermarket EDEKA's Data Warehouse The book, which is a blend of principles and real-life case studies, is intended as a text for students of B.Tech/M.Tech (Computer Science and Engineering), B.Tech/M.Tech (Information Technology), MBA, M.Sc. (Computer Science), M.Sc. (Information Technology), and MCA. It should also be of considerable utility and worth to software professionals and database practitioners.

"This book provides insight into the current trends and emerging issues by investigating grid and cloud evolution, workflow management, and the impact new computing systems have on the education fields as well as the industries"--Provided by publisher.

Increasingly powerful and diverse computing technologies have the potential to tackle ever greater and more complex problems and dilemmas in engineering and science disciplines. Principal Concepts in Applied Evolutionary Computation: Emerging Trends provides an

introduction to the important interdisciplinary discipline of evolutionary computation, an artificial intelligence field that combines the principles of computational intelligence with the mechanisms of the theory of evolution. Academics and practicing field professionals will find this reference useful as they break into the emerging and complex world of evolutionary computation, learning to harness and utilize this exciting new interdisciplinary field.

This book constitutes the revised selected papers from the 13th International Conference on Risks and Security of Internet and Systems, CRiSIS 2018, held in Arcachon, France, in October 2018. The 12 full papers and 6 short papers presented in this volume were carefully reviewed and selected from 34 submissions. They cover diverse research themes that range from classic topics, such as vulnerability analysis and classification; apps security; access control and filtering; cloud security; cyber-insurance and cyber threat intelligence; human-centric security and trust; and risk analysis.

FUNDAMENTALS OF OPEN SOURCE SOFTWARE

AISGSC 2019

A Book of Readings

Proceeding of the International Conference on Computational and Bio Engineering, 2019, Volume 1

Advances in Production Management Systems. Sustainable Production and Service Supply Chains

Principal Concepts in Applied Evolutionary Computation: Emerging Trends

EBOOK: Principles and Practice of Marketing, 9e

Papers presented at the National Conference on Mobile Computing, held at Hyderabad during 11-12

December 2001.

The book presents high-quality research papers from the Seventh International Conference on Solid Waste Management (IconSWM 2017), held at Professor Jayashankar Telangana State Agricultural University, Hyderabad on December 15 – 17, 2017. The conference, an official side event of the high-level Intergovernmental Eighth Regional 3R Forum in Asia and the Pacific, aimed to generate scientific inputs into the policy consultation of the Forum co-organized by the UNCRD/UNDESA, MoEFCC India, MOUD India and MOEJ, Japan. Presenting research on solid waste management from more than 30 countries, the book is divided into three volumes and addresses various issues related to innovation and implementation in sustainable waste management, segregation, collection, transportation of waste, treatment technology, policy and strategies, energy recovery, life cycle analysis, climate change, research and business opportunities.

Compiling the best practices of business excellence frameworks around the world, this new book addresses the need for innovative research on sustainable business performance. Using detailed empirical studies, the authors outline the motives and benefits of the implementation of such frameworks in different geographical regions. Comprehensive case studies showcase how the variety of excellence frameworks are manifested in their work cultures, values and beliefs. Academics studying quality management, HRM, and international business will find this book an essential read as it establishes the relevance of human capital in achieving and sustaining global business excellence.

Electronics, Information Sciences, Computer Engineering, telecommunication engineering and Electrical Engineering are the essential disciplines in the field of Electronics and Computer engineering Their evolution relies on progress in all these complementary scientific and technological fields This conference provides an international forum for the exchange of ideas, discussions on research results and

the presentation of theoretical and practical applications in these domains
IC3 2018
Recent Developments in Machine Learning and Data Analytics
New Opportunities Through New Technologies
Service Orientation in Holonic and Multi-Agent Manufacturing Control
Handbook of Research on High Performance and Cloud Computing in Scientific Research and Education
Futuristic Communication and Network Technologies
IFIP WG 5.7 International Conference, APMS 2013, State College, PA, USA, September 9-12, 2013, Proceedings, Part II

Jugaad is a word often heard in general conversation in India. Whether to find ingenious solutions to problems or turn adversity into opportunity—Indians swear by it. In this seminal book, Navi Radjou, Jaideep Prabhu, and Simone Ahuja challenge the very way a traditional organization thinks and acts. Leading companies such as Facebook, Future Group, GE, Google, PepsiCo, Philips, Renault-Nissan, Siemens, Suzlon, Tata Group, and YES BANK, among others, are already practising jugaad to generate original ideas and pioneer growth. In the midst of rising global competition and swelling R&D budgets, Jugaad Innovation presents ways to innovate, be flexible, and do more with less. Peppered with examples of innovative entrepreneurs in emerging markets such as Africa, India, China, and Brazil, Jugaad Innovation illuminates paths to engender breakthrough growth in a complex and resource-scarce world.

Free Open Source Software have been growing enormously in the field of information technology. Open Source Software (OSS) is a software whose source code is accessible for alteration or enrichment by other programmers. This book gives a detailed analysis of open source software and their fundamentals, and so is meant for the beginners who want to learn and write programs using Open Source Software. It also educates on how to download and instal these open source free software in the system.The topics covered in the book broadly aims to develop familiar Open Source Software (OSS) associated with database, web portal and scientific application development. Software platforms like, Android, MySQL, PHP, Python, PERL, Grid Computing, and Open Source Cloud, and their applications are explained through various examples and programs. The platforms like OSS and Linux are also introduced in the book. Recapitulation given at the end of each chapter enables the readers to take a quick revision of the topics. Numerous examples in the form of programs are given to enable the students to understand the theoretical concepts and their applicative knowledge. The book is an introductory textbook on Open Source Software (OSS) for the undergraduate students of Computer Science Engineering (CSE) and postgraduate students of Computer Application (MCA). Salient Features The procedure for installing software (Linux, Android, PHP, MySQL, Perl, and Python) both in Linux and Windows operating systems are discussed in the book.• Numerous worked out example programs are introduced.• Inclusion of several questions drawn from previous question papers in chapter-end exercises.

Grid Computing and Cluster Computing are advanced topics and latest trends in computer science that find a place in the computer science and information technology curricula of many engineering institutes and universities today. Divided into two parts—Part I, Grid Computing and Part II, Cluster Computing—, this compact and concise text strives to make the concepts of grid computing and cluster computing comprehensible to the students through its fine presentation and accessible style. Part I of the book enables the student not only to understand the concepts involved in grid computing but also to build their own grids for specific applications. Similarly, as today supercomputers are being built using cluster computing architectures, Part II provides an insight into the basic principles involved in cluster computing and equips the readers with the knowledge to build their own clusters in-house. Diagrams are used to illustrate the concepts discussed and to enable the reader to actually construct a grid or a cluster himself. The book is intended as a text for undergraduate and postgraduate students of computer science and engineering, information technology (B.Tech./M.Tech. Computer Science and Engineering/IT), and post-graduate students of computer science/information technology (M.Sc. Computer Science and M.Sc. IT). Besides, practising engineers and computer science professionals should find the text very useful.
"This book provides a comprehensive, integrative, and global assessment of the e-government evolution in terms of real-life success and failure cases"--Provided by publisher.

Techniques and Technologies in Geoinformatics
Mobile Computing
Applications and Developments in Grid, Cloud, and High Performance Computing
13th International Conference, CRiSIS 2018, Arcachon, France, October 16–18, 2018, Revised Selected Papers
Green Technological Innovation for Sustainable Smart Societies
Concepts, Techniques, Products and Applications
Sustainable Waste Management: Policies and Case Studies

In a world of increasing population, this book explores the ways in which technological progress can provide smart energy management strategies to maximize resources. Energy is essential to the survival and development of mankind. Increased pressure on existing resources now requires wiser energy management, in addition to the discovery of new resources. Challenges such as the global trend of “cheaper , exponentially increasing demand in new geographies, and current climate change policies now call for new approaches and ways of thinking about energy use which consider the impact on all involved actors, and on nature. Energy generation and management can be made more efficient by making use of technological progress and sharing global experience in the smart use of this resource. This book presents a knowledge-based review of the past, present and future of energy usage, with mathematical, modeling,

economic, technological and environmental perspectives. The ideas and experiences shared here propose wiser energy management as a system component of natural ecosystems. Explores the evolution of intelligence methods used in the energy field with a knowledge-based approach Reviews the history of methodologies used, with ontologies and knowledge maps of examples Presents case studies showing both the techniques and achievements of modern methodologies Describes regional approaches in search of alternative energy resources, aimed at reducing the use of fossil energy and enhancing the use of renewable energy

The two volumes IFIP AICT 414 and 415 constitute the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2013, held in University Park, PA, USA, in September 2013. The 133 revised full papers were carefully reviewed and selected for inclusion in the two volumes. They are organized in 4 parts: sustainable production, sustainable supply chains, sustainable services, and ICT and emerging technologies.

Service orientation is emerging nowadays at multiple organizational levels in enterprise business, and it leverages technology in response to the growing need for greater business integration, flexibility and agility of manufacturing enterprises. The Service Oriented Architecture (SOA) analysed throughout the

book represents a technical architecture, a business modelling concept, a type of infrastructure, an integration source and a new way of viewing units of automation within the enterprise. The primary goal of SOA is to align the business world with the world of information technology in a way that makes both more effective. The service value creation model at enterprise level consists of using a Service Component Architecture for business process applications, based on entities which handle services. In this view a service is a piece of software encapsulating the business/control logic or resource functionality of an enterprise entity that exhibits an individual competence and responds to a specific request to fulfil a local (operation) or global objective (batch production). The value creation model is based on a 2-stage approach: • Agentification: complex manufacturing processes are split in services provided by informational agents which are discovered, accessed and executed. This leads to a modular, reusable, agile and easy integrate integration. • Holonification: holons link the material flow and physical entities of the manufacturing processes with the informational part (IT services realized by distributed intelligence) facilitating thus traceability the developing of flexible control systems. This book gathers contributions from scientists, researchers and industrialists on concepts, methods, frameworks and implementing issues addressing trends in the service orientation of control technology and management applied to manufacturing

enterprise. This book gathers contributions from scientists, researchers and industrialists on concepts, methods, frameworks and implementing issues addressing trends in the service orientation of control technology and management applied to manufacturing enterprise.

This book constitutes the refereed proceedings of the 31st International Conference, ISC High Performance 2016 [formerly known as the International Supercomputing Conference] held in Frankfurt, Germany, in June 2016. The 25 revised full papers presented in this book were carefully reviewed and selected from 60 submissions. The papers cover the following topics: Autotuning and Thread Mapping; Data Locality and Decomposition; Scalable Applications; Machine Learning; Datacenters andCloud; Communication Runtime; Intel Xeon Phi; Manycore Architectures; Extreme-scale Computations; and Resilience.

Inhibitors and Facilitators of Digital Democracy

Risks and Security of Internet and Systems

7th IconSWM—ISWMAW 2017, Volume 1

Dissociative States

2018 3rd IEEE International Conference on Recent Trends in Electronics, Information and Communication Technology (RTEICT)

E-Government Development and Diffusion: Inhibitors and Facilitators of Digital Democracy

Fog Computing, Deep Learning and Big Data Analytics-Research Directions

The emergence of e-government allows for effective governance, increased transparency, better management, and efficient services through the use of the internet and information and communication technologies. Therefore, world governments are mobilizing large amounts of resources in order to implement and promote the use of e-government. Developing E-Government Projects: Frameworks and Methodologies presents frameworks and methodologies for strategies towards the design, implementation, and adoption of e-government projects. By providing best practices in the successful adoption of e-government, this book is essential for policy makers, practitioners, researchers, and students interested in the approaches utilized for the successful implementation of e-government projects.

This is a substantial new edition of a successful textbook which continues to have a sensible and 'easy to read' style. Each Chapter has a past/present/future theme with a real strategic approach. Strategic Operations Managment shows operations as combining products and services into a complete offer for the customer. Services are therefore seen as key and are integrated throughout the material in each chapter. Manufacturing, service supply and other key factors are all shown to be in place. In an era where companies are fond of talking about

core competences but still struggle to understand their operations, this is an important for academics and practitioners alike. Only when managers understand their operations will they be able to leverage them into any sort of capabilities that will lead to competitive advantage. Online tutor resource materials accompany the book.

Ever suffered the collective flatulence of eighty co-passengers while sailing on a serene Asian river? Or called out for rescue in true Bollywood style while locked up in a minaret in Persia? Or had to cross a pack of hyenas en route to the loo? Dreaming of glorious sunrises and architectural marvels in exotic places, Sudha often landed up in situations that were uproariously bizarre or downright dangerous. Tongue firmly in cheek, she recounts her journeys through the raw wildernesses of Borneo and the African savannah, into the deserts of Iran and Uzbekistan, and up the Annapurna and the Pamirs, revealing the quirky side of solo travel to side-splitting effect. Punctuating her droll stories with breathtaking descriptions and stunning photographs, Sudha invites readers on an unexpected and altogether memorable tour around the world!

This book gathers state-of-the-art research in computational engineering and bioengineering to facilitate knowledge exchange between various scientific communities. Computational engineering (CE) is a relatively new discipline that

addresses the development and application of computational models and simulations often coupled with high-performance computing to solve complex physical problems arising in engineering analysis and design in the context of natural phenomena. Bioengineering (BE) is an important aspect of computational biology, which aims to develop and use efficient algorithms, data structures, and visualization and communication tools to model biological systems. Today, engineering approaches are essential for biologists, enabling them to analyse complex physiological processes, as well as for the pharmaceutical industry to support drug discovery and development programmes.

GRID AND CLUSTER COMPUTING

Emerging Trends

CONCEPTS AND CASE STUDIES

Indian National Bibliography

Developing E-Government Projects: Frameworks and Methodologies

The Travel Gods Must Be Crazy

Construction Stakeholder Management

This book presents high-quality papers from an international forum for research on computational approaches to learning. It includes current research and findings from various research labs, universities

and institutions that may lead to development of marketable products. It also provides solid support for these findings in the form of empirical studies, theoretical analysis, or comparison to psychological phenomena. Further, it features work that shows how to apply learning methods to solve important application problems as well as how machine learning research is conducted. The book is divided into two main parts: Machine Learning Techniques, which covers machine learning-related research and findings; and, Data Analytics, which introduces recent developments in this domain. Additionally, the book includes work on data analytics using machine learning techniques. This book offers a comprehensive introduction to the different emerging concepts in the innovative area of sustainability and digital technology. More than 20 leading thinkers from the fields of digitalization, strategic management, sustainability and organizational development share clearly structured insights on the latest developments, advances and remaining challenges concerning the role of sustainability in an increasingly digital world. The authors not only introduce a profound and unique analysis on the state-of-the art of sustainability and digital transformation, but also provide business

leaders with practical advice on how to apply the latest management thinking to their daily business decisions. Further, a number of significant case studies exemplify the issues discussed and serve as valuable blueprints for decision makers.

Humans generate millions of tons of waste every day. This waste is rich in water, nutrients, energy and organic compounds. Yet waste is not being managed in a way that permits us to derive value from its reuse, whilst millions of farmers struggle with depleted soils and lack of water. This book shows how Resource Recovery and Reuse (RRR) could create livelihoods, enhance food security, support green economies, reduce waste and contribute to cost recovery in the sanitation chain. While many RRR projects fully depend on subsidies and hardly survive their pilot phase, hopeful signs of viable approaches to RRR are emerging around the globe including low- and middle-income countries. These enterprises or projects are tapping into entrepreneurial initiatives and public– private partnerships, leveraging private capital to help realize commercial or social value, shifting the focus from treatment for waste disposal to treatment of waste as a valuable resource for safe reuse. The book provides a

compendium of business options for energy, nutrients and water recovery via 24 innovative business models based on an in-depth analysis of over 60 empirical cases, of which 47 from around the world are described and evaluated in a systematic way. The focus is on organic municipal, agro-industrial and food waste, including fecal sludge, supporting a diverse range of business models with potential for large-scale out-and up-scaling.

EBOOK: Principles and Practice of Marketing, 9e

ICT Innovations 2021. Digital Transformation

E-GOVERNANCE

Frameworks and Methodologies

High Performance Computing

Strategic Operations Management

Resource Recovery from Waste

The Grid

"The Grid" is an emerging infrastructure that will fundamentally change the way people think about and use computing. The editors reveal the revolutionary impact of large-scale resource sharing and virtualization within science and industry, and the intimate relationships between organization and resource sharing structures.

This comprehensive text, now in its Second Edition, continues to provide the entire spectrum of e-governance—from definition of e-governance to its history, evaluation, e-governance models, infrastructure and manpower facilities, data warehousing possibilities in implementation of e-government projects, and strategies of success of such projects. The text covers 22 case studies—18 Indian case studies and four International case studies. The Indian case studies include Bhoomi, a project of Karnataka Government, CARD (Computer-aided Administration of Registration Department), Smart Nagarpalika (Computerization of Urban Local Bodies or Municipalities), IT in judiciary, Sachivalaya Vahini (e-governance at Secretariat), e-Khazana (Computerization of Treasury Department), and e-Panchayat (Electronic Knowledge-based Panchayat). The international case studies are culled from USA, China, Brazil and Sri Lanka. This book would be of great interest to students of computer science, IT courses, management and public administration. In addition, government departments—both at the centre and in various states—and administrators should find the book highly useful. NEW TO THIS EDITION : Provides two Appendices—one on Eucalyptus cloud to remotely provision e-governance application and another on Revisiting NeGP: eBharath 2020: the proposed future NeGP.

Covering both the theoretical and practical aspects of fault-tolerant mobile systems, and fault tolerance and analysis, this book tackles the current issues of reliability-based optimization of computer networks, fault-tolerant mobile systems, and fault tolerance and reliability of high speed and hierarchical networks. The book is divided into six parts to facilitate coverage of the material by course instructors and computer systems professionals. The sequence of chapters in each part ensures the gradual coverage of issues from the basics to the most recent developments. A useful set of references, including electronic sources, is listed at the end of each chapter. Contents:Fundamental Concepts in Fault Tolerance and Reliability AnalysisFault Modeling, Simulation and DiagnosisError Control and Self-Checking CircuitsFault Tolerance in Multiprocessor SystemsFault-Tolerant Routing in Multi-Computer NetworksFault Tolerance and Reliability in Hierarchical Interconnection NetworksFault Tolerance and Reliability of Computer NetworksFault Tolerance in High Speed Switching NetworksFault Tolerance in Distributed and Mobile Computing SystemsFault Tolerance in Mobile NetworksReliability and Yield Enhancement of VLSI/WSI CircuitsDesign of fault-tolerant Processor ArraysAlgorithm-Based Fault ToleranceSystem Level Diagnosis ISystem Level Diagnosis IIFault Tolerance and Reliability of RAID SystemsHigh Availability in Computer Systems Readership: Computer engineers,

computer scientists, information scientists, graduate and senior undergraduate students in information science and computer engineering. Keywords:Fault Tolerance;Reliability;Availability;Fault Modeling;Fault Diagnosis;Network ReliabilityKey Features:Comprehensive coverage of issues in fault tolerance and reliability analysisSimple treatment of difficult issues via examples with figures, tables and graphs

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.

DATA WAREHOUSING

First International Symposium, CDB 2004, Paris, France, June 12-13, 2004, Proceedings
Big Data Analytics: Systems, Algorithms, Applications
Intelligence in Energy
Sustainability in a Digital World
Grid Computing Security
Post Pandemic Era

This book discusses the innovative and efficient technological solutions for sustainable smart societies in terms of alteration in industrial pollution levels, the effect of reduced carbon emissions, green power management, ecology, and biodiversity, the impact of minimal noise levels and air quality influences on human health. The book is focused on the smart society development using innovative low-cost advanced technology in different areas where the growth in employment and income are driven by public and private investment into such economic activities, infrastructure and assets that allow reduced carbon emissions and pollution, enhanced energy, and resource efficiency and prevention of the loss of biodiversity and ecosystem services. The book also covers the paradigm shift in the sustainable development for the green environment in the post-pandemic era. It emphasizes and facilitates a greater understanding of existing available research i.e., theoretical, methodological, well-established and validated empirical work, associated with the environmental and climate change aspects.

As information systems used for research and educational purposes have become more

complex, there has been an increase in the need for new computing architecture. High performance and cloud computing provide reliable and cost-effective information technology infrastructure that enhances research and educational processes. Handbook of Research on High Performance and Cloud Computing in Scientific Research and Education presents the applications of cloud computing in various settings, such as scientific research, education, e-learning, ubiquitous learning, and social computing. Providing various examples, practical solutions, and applications of high performance and cloud computing; this book is a useful reference for professionals and researchers discovering the applications of information and communication technologies in science and education, as well as scholars seeking insight on how modern technologies support scientific research.

This book captures best practice in construction stakeholdermanagement using a range of international case studies. Itdemonstrates stakeholder mapping, presents the power/interestmatrix and analyses a model for the timely engagement ofstakeholders. The increased use of partnering and other relational forms ofcontracting have underlined the need for project participants towork together and also to be aware of all those who can affect orbe affected by a project and its associated developments.Stakeholder management enables them to see this wider picture andprovides guidance for managing the diverse views and interests thatcan manifest in the course of a project's life. All construction projects have the potential for conflicts ofinterest that can result in costly and damaging legal proceedings.This new book advocates an alternative to dispute resolution thatis proactive, practical and global in its application.Construction Stakeholder Management is therefore anessential text for advanced students, lecturers, researchers andpractitioners in the built environment.

This book presents select proceedings of the International Conference on Futuristic Communication and Network Technologies (CFCNT 2020) conducted at Vellore Institute of Technology, Chennai. It covers various domains in communication engineering and networking technologies. This volume comprises of recent research in areas like optical communication, optical networks, optics and optical computing, emerging trends in photonics, MEMS and sensors, active and passive RF components and devices, antenna systems and applications, RF devices and antennas for microwave emerging technologies, wireless communication for future networks, signal and image processing, machine learning/AI for networks, internet of intelligent things, network security and blockchain technologies. This book will be useful for researchers, professionals, and engineers working in the core areas of electronics and communication.

Design and Analysis of Reliable and Fault-Tolerant Computer Systems

The Role of Human Capital

Big Data

Select Proceedings of VICFCNT 2020

Blueprint for a New Computing Infrastructure

Business Models for Energy, Nutrient and Water Reuse in Low- and Middle-income Countries

Constraint Databases and Applications

This book provides a comprehensive survey of techniques, technologies and applications of Big Data and its analysis. The Big Data phenomenon is increasingly impacting all sectors of business and industry, producing an emerging new information ecosystem. On the applications front, the book offers detailed descriptions of various application areas for Big Data Analytics in the important domains of

Social Semantic Web Mining, Banking and Financial Services, Capital Markets, Insurance, Advertisement, Recommendation Systems, Bio-Informatics, the IoT and Fog Computing, before delving into issues of security and privacy. With regard to machine learning techniques, the book presents all the standard algorithms for learning – including supervised, semi-supervised and unsupervised techniques such as clustering and reinforcement learning techniques to perform collective Deep Learning. Multi-layered and nonlinear learning for Big Data are also covered. In turn, the book highlights real-life case studies on successful implementations of Big Data Analytics at large IT companies such as Google, Facebook, LinkedIn and Microsoft. Multi-sectorial case studies on domain-based companies such as Deutsche Bank, the power provider Opower, Delta Airlines and a Chinese City Transportation application represent a valuable addition. Given its comprehensive coverage of Big Data Analytics, the book offers a unique resource for undergraduate and graduate students, researchers, educators and IT professionals alike.

The ?rst International Symposium on the Applications of Constraint Databases (CDB2004) took place in Paris, France, on June 12–13, 2004, just before the ACM SIGMOD and PODS conferences. Since the publication of the paper “Constraint Query Languages” by Kan- lakis, Kuper and Revesz in 1990, the last decade has seen a growing interest in constraint database theory, query evaluation, and applications, re?ected in a variety of conferences, journals, and books. Constraint databases have proven to be extremely ?exible and adoptable in environments that relational database systems cannot serve well, such as geographic information systems and bioinf- matics. This symposium brought together people from several diverse areas all c- tributing to the practice and the application of constraint databases. It was a continuation and extension of previous workshops held in Friedrichshafen, G- many (1995), Cambridge, USA (1996), Delphi, Greece (1997), and Seattle, USA (1998) as well as of the work in the

comprehensive volume “Constraint Data- ses” edited by G. Kuper, L. Libkin and J. Paredaens (2000) and the textbook “Introduction to Constraint Databases” by P. Revesz (2002). The aim of the symposium was to open new and future directions in c- straint database research; to address constraints over domains other than the reals; to contribute to a better implementation of constraint database systems, in particular of query evaluation; to address e?cient quanti?er elimination; and to describe applications of constraint databases.

Achieving Sustainable Business Excellence