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**Proceeding of International Conference on Computational Science and Applications** Subhash Bhalla, Peter Kwan, Mangesh Bedekar, Rashmi Phalnikar, Sumedha Sirsakar, 2020-01-04 The book consists of high quality papers presented at the International Conference on Computational Science and Applications ICCSA 2019 held at Maharashtra Institute of Technology World Peace University Pune India from 7 to 9 August 2019 It covers the latest innovations and developments in information and communication technology discussing topics such as soft computing and intelligent systems web of sensor networks drone operating systems web of sensor networks wearable smart sensors automated guided vehicles and many more *Proceedings [of The] 18th International Conference on Distributed Computing Systems* M. Papazoglou, 1998

**Proceedings of the 18th International Conference on Computing in Civil and Building Engineering** Eduardo Toledo Santos, Sergio Scheer, 2020-07-14 This book gathers the latest advances innovations and applications in the field of information technology in civil and building engineering presented at the 18th International Conference on Computing in Civil and Building Engineering ICCCBE S o Paulo Brazil August 18 20 2020 It covers highly diverse topics such as BIM construction information modeling knowledge management GIS GPS laser scanning sensors monitoring VR AR computer aided construction product and process modeling big data and IoT cooperative design mobile computing simulation structural health monitoring computer aided structural control and analysis ICT in geotechnical engineering computational mechanics asset management maintenance urban planning facility management and smart cities Written by leading researchers and engineers and selected by means of a rigorous international peer review process the contributions highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations **Proceedings of the 2023 International Conference on Advances in Computing Research (ACR'23)** Kevin Daimi, Abeer Al Sadoon, 2023-05-26 This book includes recent research on Data Science IoT Smart Cities and Smart Energy Health Informatics and Network Security The International Conference on Advances in Computing Research ACR 23 brings together a diverse group of researchers from all over the world with the intent of fostering collaboration and dissemination of the advances in computing technologies The conference is aptly segmented into six tracks to promote a birds of the same feather congregation and maximize participation The first track covers computational intelligence which include among others research topics on artificial intelligence knowledge representation and management application and theory of neural systems fuzzy and expert systems and genetic algorithms The second track focuses on cybersecurity engineering It includes pertinent topics such as incident response hardware and network security digital biometrics and forensics technologies and cybersecurity metrics and assessment Further it features emerging security technologies and high tech systems security The third track includes studies on data analytics It covers topics such as data management statistical and deep analytics semantics and time series analytics and a multitude of important applications of data analytics in areas such as engineering

health care business and manufacturing The fourth track on network and communications covers a wide range of topics in both areas including protocols and operations ubiquitous networks ad hoc and sensor networks cellular systems virtual and augmented reality streaming information centric networks and the emerging areas in connected and autonomous vehicle communications Lastly the final track on cloud and mobile computing includes areas of interest in cloud computing such as infrastructure service management and operations architecture and interoperability and federation This track also includes important topics in mobile computing such as services and applications communication architectures positioning and tracking technologies the general applications of mobile computing

**Mobile and Handheld Computing Solutions for Organizations and End-Users** Hu, Wen-Chen, 2013-01-31 Mobile and Handheld Computing Solutions for Organizations and End Users discusses a broad range of topics in order to advance handheld knowledge and apply the proposed methods to real world issues for organizations and end users This book brings together researchers and practitioners involved with mobile and handheld computing solutions useful for IT students researchers and scholars

*Network Coding* Khaldoun Al Agha, 2012-12-27 Network coding a relatively new area of research has evolved from the theoretical level to become a tool used to optimize the performance of communication networks wired cellular ad hoc etc The idea consists of mixing packets of data together when routing them from source to destination Since network coding increases the network performance it becomes a tool to enhance the existing protocols and algorithms in a network or for applications such as peer to peer and TCP This book delivers an understanding of network coding and provides a set of studies showing the improvements in security capacity and performance of fixed and mobile networks This is increasingly topical as industry is increasingly becoming more reliant upon and applying network coding in multiple applications Many cases where network coding is used in routing physical layer security flooding error correction optimization and relaying are given all of which are key areas of interest Network Coding is the ideal resource for university students studying coding and researchers and practitioners in sectors of all industries where digital communication and its application needs to be correctly understood and implemented

Contents 1 Network Coding From Theory to Practice Youghourta Benfattoum Steven Martin and Khaldoun Al Agha 2 Fountain Codes and Network Coding for WSNs Anya Apavatjrut Claire Goursaud Katia Jaffr s Runser and Jean Marie Gorce 3 Switched Code for Ad Hoc Networks Optimizing the Diffusion by Using Network Coding Nour Kadi and Khaldoun Al Agha 4 Security by Network Coding Katia Jaffr s Runser and C dric Lauradoux 5 Security for Network Coding Marine Minier Yuanyuan Zhang and Wassim Zna di 6 Random Network Coding and Matroids Maximilien Gadouleau 7 Joint Network Channel Coding for the Semi Orthogonal MARC Theoretical Bounds and Practical Design Atoosa Hatefi Antoine O Berthet and Raphael Visoz 8 Robust Network Coding Lana Iwaza Marco Di Renzo and Michel Kieffer 9 Flow Models and Optimization for Network Coding Eric Gourdin and Jeremiah Edwards

*Computational Intelligence in Image and Video Processing* Mukesh D Patil, Gajanan K Birajdar, Sangita S Chaudhari, 2023-02-15 Computational Intelligence in Image and Video

Processing presents introduction state of the art and adaptations of computational intelligence techniques and their usefulness in image and video enhancement classification retrieval forensics and captioning It covers an amalgamation of such techniques in diverse applications of image and video processing Features A systematic overview of state of the art technology in computational intelligence techniques for image and video processing Advanced evolutionary and nature inspired approaches to solve optimization problems in the image and video processing domain Outcomes of recent research and some pointers to future advancements in image and video processing and intelligent solutions using computational intelligence techniques Code snippets of the computational intelligence algorithm techniques used in image and video processing This book is primarily aimed at advanced undergraduates graduates and researchers in computer science and information technology Engineers and industry professionals will also find this book useful

### **Cyber-Physical Systems**

Gaddadevara Matt Siddesh,Ganesh Chandra Deka,Krishnarajanagar GopalaIyengar Srinivasa,Lalit Mohan

Patnaik,2015-12-01 In cyber physical systems CPS sensors and embedded systems are networked together to monitor and manage a range of physical processes through a continuous feedback system This allows distributed computing using wireless devices Cyber Physical Systems A Computational Perspective examines various developments of CPS that are impacting our daily

*Modeling and Optimization of Parallel and Distributed Embedded Systems* Arslan Munir,Ann Gordon-Ross,Sanjay Ranka,2016-02-08 This book introduces the state of the art in research in parallel and distributed embedded systems which have been enabled by developments in silicon technology micro electro mechanical systems MEMS wireless communications computer networking and digital electronics These systems have diverse applications in domains including military and defense medical automotive and unmanned autonomous vehicles The emphasis of the book is on the modeling and optimization of emerging parallel and distributed embedded systems in relation to the three key design metrics of performance power and dependability Key features Includes an embedded wireless sensor networks case study to help illustrate the modeling and optimization of distributed embedded systems Provides an analysis of multi core many core based embedded systems to explain the modeling and optimization of parallel embedded systems Features an application metrics estimation model Markov modeling for fault tolerance and analysis and queueing theoretic modeling for performance evaluation Discusses optimization approaches for distributed wireless sensor networks high performance and energy efficient techniques at the architecture middleware and software levels for parallel multicore based embedded systems and dynamic optimization methodologies Highlights research challenges and future research directions The book is primarily aimed at researchers in embedded systems however it will also serve as an invaluable reference to senior undergraduate and graduate students with an interest in embedded systems research

*IT Convergence and Security 2017* Kuinam J. Kim,Hyuncheol Kim,Nakhoon Baek,2017-09-03 This is the second volume of proceedings including selected papers from the International Conference on IT Convergence and Security ICITCS 2017 presenting a snapshot of the latest issues encountered in the field

It explores how IT convergence and security issues are core to most current research industrial and commercial activities and consists of contributions covering topics including machine learning deep learning communication and signal processing computer vision and applications future network technology artificial intelligence and robotics ICITCS 2017 is the latest in a series of highly successful Inter national Conferences on IT Convergence and Security previously held in Prague Czech Republic 2016 Kuala Lumpur Malaysia 2015 Beijing China 2014 Macau China 2013 Pyeong Chang Korea 2012 and Suwon Korea 2011 Scalable Enterprise Systems Vittal Prabhu, Soundar Kumara, Manjunath Kamath, 2012-12-06 The National Science Foundation NSF is the leading sponsor of basic academic research in engineering and its influence far exceeds its budget We think NSF is at its best when it uses that influence to focus interest within the researcher community on critical new challenges and technologies NSF s Scalable Enterprise Systems SES initiative for which we were responsible in our successive terms in the division of Design Manufacture and Industrial Innovation DMII was just such a venture A collaborative effort spanning NSF s engineering and computer science directorates SES sought to concentrate the energies of the academic engineering research community on developing a science base for designing planning and controlling the extended spatially and managerially distributed enterprises that have become the norm in the manufacture distribution and sale of the products of U S industry The of associated issues addressed included everything from management supply chains to product design across teams of collaborating companies to e marketing and make to order manufacturing to the information technology challenges of devising inter operable planning and control tools that can scale with exploding enterprise size and scope A total of 27 teams with nearly 100 investigators were selected from the 89 submitted proposals in the Phase I exploratory part of the effort see the list below Seven of these were awarded larger multi year grants to continue their research in Phase II As the contents of this book amply illustrate these investigations continue to flourish with and without direct NSF support Handbook of Blockchain Technology Marinos Themistocleous, 2025-02-12 This Handbook provides an interdisciplinary investigation into the role and influence of blockchain technology in areas such as the Metaverse Non Fungible Tokens NFTs tokenization algorithmic governance fraud and crime prevention Drawing on cutting edge research and analysis from leading experts in the field it demystifies the complex nature of blockchain and its mechanisms applications and potentials **Elementary Functions** Jean-Michel Muller, 2016-11-16 This textbook presents the concepts and tools necessary to understand build and implement algorithms for computing elementary functions e g logarithms exponentials and the trigonometric functions Both hardware and software oriented algorithms are included along with issues related to accurate floating point implementation This third edition has been updated and expanded to incorporate the most recent advances in the field new elementary function algorithms and function software After a preliminary chapter that briefly introduces some fundamental concepts of computer arithmetic such as floating point arithmetic and redundant number systems the text is divided into three main parts Part I considers the computation of

elementary functions using algorithms based on polynomial or rational approximations and using table based methods the final chapter in this section deals with basic principles of multiple precision arithmetic Part II is devoted to a presentation of shift and add algorithms hardware oriented algorithms that use additions and shifts only Issues related to accuracy including range reduction preservation of monotonicity and correct rounding as well as some examples of implementation are explored in Part III Numerous examples of command lines and full programs are provided throughout for various software packages including Maple Sollya and Gappa New to this edition are an in depth overview of the IEEE 754 2008 standard for floating point arithmetic a section on using double and triple word numbers a presentation of new tools for designing accurate function software and a section on the Toom Cook family of multiplication algorithms The techniques presented in this book will be of interest to implementers of elementary function libraries or circuits and programmers of numerical applications Additionally graduate and advanced undergraduate students professionals and researchers in scientific computing numerical analysis software engineering and computer engineering will find this a useful reference and resource PRAISE FOR PREVIOUS EDITIONS T his book seems like an essential reference for the experts which I m not More importantly this is an interesting book for the curious which I am In this case you ll probably learn many interesting things from this book If you teach numerical analysis or approximation theory then this book will give you some good examples to discuss in class MAA Reviews Review of Second Edition The rich content of ideas sketched or presented in some detail in this book is supplemented by a list of over three hundred references most of them of 1980 or more recent The book also contains some relevant typical programs Zentralblatt MATH Review of Second Edition I think that the book will be very valuable to students both in numerical analysis and in computer science I found it to be well written and containing much interesting material most of the time disseminated in specialized papers published in specialized journals difficult to find Numerical Algorithms Review of First Edition     High Performance Computing Esteban Mocskos,Sergio Nesmachnow,2017-12-26 This book constitutes the proceedings of the 4th Latin American Conference on High Performance Computing CARLA 2017 held in Buenos Aires Argentina and Colonia del Sacramento Uruguay in September 2017 The 29 papers presented in this volume were carefully reviewed and selected from 50 submissions They are organized in topical sections named HPC infrastructures and datacenters HPC industry and education GPU multicores accelerators HPC applications and tools big data and data management parallel and distributed algorithms Grid cloud and federations     **Handbook of Research on Smart Computing for Renewable Energy and Agro-Engineering** Kharchenko, Valeriy,Vasant, Pandian,2019-12-06 The rise in population and the concurrently growing consumption rate necessitates the evolution of agriculture to adopt current computational technologies to increase production at a faster and smoother scale While existing technologies may help in crop processing there is a need for studies that seek to understand how modern approaches like artificial intelligence fuzzy logic and hybrid algorithms can aid the agricultural process while utilizing energy sources efficiently The Handbook of

Research on Smart Computing for Renewable Energy and Agro Engineering is an essential publication that examines the benefits and barriers of implementing computational models to agricultural production and energy sources as well as how these models can produce more cost effective and sustainable solutions Featuring coverage on a wide range of topics such as bacterial foraging swarm intelligence and combinatorial optimization this book is ideally designed for agricultural engineers farmers municipal union leaders computer scientists information technologists sustainable developers managers environmentalists industry professionals academicians researchers and students

**Privacy and Security Issues in Big Data** Pradip Kumar Das, Hrudaya Kumar Tripathy, Shafiz Affendi Mohd Yusof, 2021-04-23 This book focuses on privacy and security concerns in big data and differentiates between privacy and security and privacy requirements in big data It focuses on the results obtained after applying a systematic mapping study and implementation of security in the big data for utilizing in business under the establishment of Business Intelligence The chapters start with the definition of big data discussions why security is used in business infrastructure and how the security can be improved In this book some of the data security and data protection techniques are focused and it presents the challenges and suggestions to meet the requirements of computing communication and storage capabilities for data mining and analytics applications with large aggregate data in business

**Job Scheduling Strategies for Parallel Processing** Eitan Frachtenberg, 2007-02-09 This book constitutes the thoroughly refereed post proceedings of the 12th International Workshop on Job Scheduling Strategies for Parallel Processing JSSPP 2006 held in Saint Malo France in June 2006 in conjunction with the Joint International Conference on Measurement and Modeling of Computer Systems SIGMETRICS Performance 2006 The 12 revised full research papers cover all current issues of job scheduling strategies for parallel processing

*Transactions on Computational Collective Intelligence* X Ngoc-Thanh Nguyen, 2013-05-20 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the Semantic Web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This tenth issue contains 13 carefully selected and thoroughly revised contributions

**Cloud Computing in Libraries** Mayank Yuvaraj, 2020-10-12 Cloud computing is a model where computing resources processors storage software are offered as a utility from an indistinct location and boundaries to the user Adoption of Cloud computing in recent years has gained momentum within various avenues round the globe due to its characteristics like elasticity virtualization and pay as you go pricing In tune with the trend various companies have evolved which are offering web applications These companies provide the system required to host the application to users on lease which saves



them from purchasing The book combines both theoretical and practical perspectives of cloud computing with a slant towards library and information centres The book describes in detail about various companies which are providing cloud computing solutions and infrastructure for library and information centres Initiatives of OCLC and best practices adopted in other libraries around the world has been discussed at length Many avenues of the implementation of cloud computing has been identified in the present study Various initiatives of the library professionals to move their internet sites their integrated library system for cataloguing and acquisition Cloud based library apps Cloud based Stack Map and their repository systems and inter library loan systems to the cloud has been mentioned The book further proposes a model which may serve as a blueprint for implementation of cloud computing technologies in libraries With the timely publication of book library and information service practitioners after going through the book can outsource the task of maintaining the computer infrastructure and focus on their mission to serve people with right information at right point of time

**Security in RFID and Sensor Networks** Paris Kitsos, 2016-04-19 In the past several years there has been an increasing trend in the use of Radio Frequency Identification RFID and Wireless Sensor Networks WSNs as well as in the integration of both systems due to their complementary nature flexible combination and the demand for ubiquitous computing As always adequate security remains one of the open are

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butterflies whales and fish migrate to warmer climates every year monarch butterflies

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