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Distributed Computing and Internet Technology 8th International Conference, ICDCIT 2012, Bhubaneswar, India, February 2-4, 2012. Proceedings Springer Science & Business Media This book constitutes the refereed proceedings of the 8th International Conference on Distributed Computing and Internet Technology, ICDCIT 2012, held in Bhubaneswar, India, in February 2012. The 17 full papers presented together with 15 short papers in this volume were carefully reviewed and selected from 89 submissions. In addition the book contains the full versions of 6 invited talks. The papers range over a spectrum of issues related to the theme, covering theoretical foundations, computational tools, and societal applications. State of the art techniques like game theoretic ones are used by authors for analyzing conceptual problems. **Distributed Computing and Internet Technology 8th International Conference, ICDCIT 2012, Bhubaneswar, India, February 2-4, 2012. Proceedings Springer** This book constitutes the refereed proceedings of the 8th International Conference on Distributed Computing and Internet Technology, ICDCIT 2012, held in Bhubaneswar, India, in February 2012. The 17 full papers presented together with 15 short papers in this volume were carefully reviewed and selected from 89 submissions. In addition the book contains the full versions of 6 invited talks. The papers range over a spectrum of issues related to the theme, covering theoretical foundations, computational tools, and societal applications. State of the art techniques like game theoretic ones are used by authors for analyzing conceptual problems. **Distributed Computing and Internet Technology 16th International Conference, ICDCIT 2020, Bhubaneswar, India, January 9-12, 2020, Proceedings Springer Nature** This book constitutes the proceedings of the 16th International Conference on Distributed Computing and Internet Technology, ICDCIT 2020, held in Bhubaneswar, India, in January 2020. The 20 full and 3 short papers presented in this volume were carefully reviewed and selected from 110 submissions. In addition, the book included 6 invited papers. The contributions were organized in topical sections named: invited talks; concurrent and distributed systems modelling and verification; cloud and grid computing; social networks, machine learning and mobile networks; data processing and blockchain technology; and short papers. **Distributed Computing and Internet Technology 17th International Conference, ICDCIT 2021, Bhubaneswar, India, January 7-10, 2021, Proceedings Springer Nature** This book constitutes the proceedings of the 17th International Conference on Distributed Computing and Internet Technology, ICDCIT 2020, held in Bhubaneswar, India, in January 2021. The 13 full papers presented together with 4 short papers were carefully reviewed and selected from 99 submissions. The papers were organized in topical sections named: invited talks, cloud computing and networks, distributed algorithms, concurrency and parallelism, graph algorithms and security, social networks and machine learning, and short papers. **Distributed Computing and Internet Technology 14th International Conference, ICDCIT 2018, Bhubaneswar, India, January 11-13, 2018, Proceedings Springer** This book constitutes the proceedings of the 14th International Conference on Distributed Computing and Internet Technology, ICDCIT 2018, held in Bhubaneswar, India, in January 2018. The 9 full papers, 11 short papers and 3 poster papers presented in this book were carefully reviewed and selected from 120 submissions. The ICDCIT conference focusses on security and privacy; distributed and multiprocessing approaches; networks protocols and applications; and databases, algorithms, data processing and applications. **Distributed Computing and Internet Technology 11th International Conference, ICDCIT 2015, Bhubaneswar, India, February 5-8, 2015. Proceedings Springer** This book constitutes the refereed proceedings of the 11th International Conference on Distributed Computing and Internet Technology, ICDCIT 2015, held in Bhubaneswar, India, in February 2015. The 12 revised full papers presented together with 30 short papers and 9 invited talks in this

volume were carefully reviewed and selected from 221 submissions. The papers cover topics such as distributed computing and algorithms; internet technologies and Web services; secure computing and communication; cloud computing; information retrieval and recommender systems and societal applications. Distributed Computing and Internet Technology 9th International Conference, ICDCIT 2013, Bhubaneswar, India, February 5-8, 2013, Proceedings [Springer](#) This book constitutes the refereed proceedings of the 9th International Conference on Distributed Computing and Internet Technology, ICDCIT 2013, held in Bhubaneswar, India, in February 2013. The 40 full papers presented together with 5 invited talks in this volume were carefully reviewed and selected from 164 submissions. The papers cover various research aspects in distributed computing, internet technology, computer networks, and machine learning. Distributed Computing and Internet Technology 13th International Conference, ICDCIT 2017, Bhubaneswar, India, January 13-16, 2017, Proceedings [Springer](#) This book constitutes the proceedings of the 13th International Conference on Distributed Computing and Internet Technology, ICDCIT 2017, held in Bhubaneswar, India, in January 2017. The 17 full papers and 3 poster papers presented together with 6 abstracts of invited talks were carefully reviewed and selected from 208 submissions (118 abstract and 90 full paper submissions). The ICDCIT conference focusses on mobile computing; analytics; distributed computing; virtual machines; access control; and security and privacy. Advanced Computing and Communication Technologies Proceedings of the 11th ICACCT 2018 [Springer](#) The book includes papers on a wide range of emerging research topics spanning theory, systems and applications of computing and communication technologies viz. Nonlinear Dynamics in Cryptography, Discrete domain Swarm Robotics, Machine Learning, Facility Layout Problem, Crowdfunding Projects, Deep Learning, MHD Nanofluid Flow, Medical Diagnostics, Human Computer Interface, Social Networking, System Performance, Wireless Sensor Networks, Cognitive Radio Networks, Antenna Design etc.; presented at the 11th International Conference on Advanced Computing and Communications Technologies (11th ICACCT 2018) held on 17-18 February, 2018 at Asia Pacific Institute of Information Technology, Panipat, India. Domain Science and Engineering A Foundation for Software Development [Springer Nature](#) In this book the author explains domain engineering and the underlying science, and he then shows how we can derive requirements prescriptions for computing systems from domain descriptions. A further motivation is to present domain descriptions, requirements prescriptions, and software design specifications as mathematical quantities. The author's maxim is that before software can be designed we must understand its requirements, and before requirements can be prescribed we must analyse and describe the domain for which the software is intended. He does this by focusing on what it takes to analyse and describe domains. By a domain we understand a rationally describable discrete dynamics segment of human activity, of natural and man-made artefacts, examples include road, rail and air transport, container terminal ports, manufacturing, trade, healthcare, and urban planning. The book addresses issues of seemingly large systems, not small algorithms, and it emphasizes descriptions as formal, mathematical quantities. This is the first thorough monograph treatment of the new software engineering phase of software development, one that precedes requirements engineering. It emphasizes a methodological approach by treating, in depth, analysis and description principles, techniques and tools. It does this by basing its domain modeling on fundamental philosophical principles, a view that is new for a computer science monograph. The book will be of value to computer scientists engaged with formal specifications of software. The author reveals this as a field of interesting problems, most chapters include pointers to further study and exercises drawn from practical engineering and science challenges. The text is supported by a primer to the formal specification language RSL and extensive indexes. Distributed Computing and Internet Technology 12th International Conference, ICDCIT 2016, Bhubaneswar, India, January 15-18, 2016, Proceedings [Springer](#) This book constitutes the proceedings of the 12th International Conference on Distributed Computing and Internet Technology, ICDCIT 2016, held in Bhubaneswar, India, in January 2016. The 6 full papers, 7 short papers and 11 poster papers presented in this volume were carefully reviewed and selected from 129 submissions. The ICDCIT conference focusses on distributed computing, internet technologies, and societal applications. The book also contains 3 full paper invited talks. Power System Dynamics Analysis and Simulation [PHI Learning Pvt. Ltd.](#) This comprehensive text offers a detailed treatment of modelling of components and sub-systems for studying the transient and dynamic stability of large-scale power systems. Beginning with an overview of basic concepts of stability of simple systems, the book is devoted to in-depth coverage of modelling of synchronous machine and its excitation systems and speed governing controllers. Apart from covering the modelling aspects, methods of interfacing component models for the analysis of small-signal stability of power systems are presented in an easy-to-understand manner. The book also offers a study of simulation of transient stability of power systems as well as electromagnetic transients involving synchronous machines. Practical data pertaining to power systems, numerical examples and derivations are interspersed throughout the text to give students practice in applying key concepts. This text serves as a well-knit introduction to Power System Dynamics and is suitable for a one-semester course for the senior-level undergraduate students of electrical engineering and postgraduate students specializing in Power Systems. Contents: contents Preface 1. ONCE OVER LIGHTLY 2. POWER SYSTEM STABILITY—ELEMENTARY ANALYSIS 3. SYNCHRONOUS MACHINE MODELLING FOR POWER SYSTEM DYNAMICS 4. MODELLING OF OTHER COMPONENTS FOR DYNAMIC ANALYSIS 5. OVERVIEW OF NUMERICAL METHODS 6. SMALL-SIGNAL STABILITY ANALYSIS OF POWER SYSTEMS 7. TRANSIENT STABILITY ANALYSIS OF POWER SYSTEMS 8. SUBSYNCHRONOUS AND TORSIONAL OSCILLATIONS 9. ENHANCEMENT AND COUNTERMEASURES Index Intelligent Computing, Communication and Devices Proceedings of ICCD 2014, Volume 1 [Springer](#) In the history of mankind, three revolutions which impact the human life are tool-making revolution, agricultural revolution and industrial revolution. They have transformed not only the economy and civilization but the overall development of the human society. Probably, intelligence revolution is the next revolution, which the society will perceive in the next 10 years. ICCD-2014 covers all dimensions of intelligent sciences, i.e. Intelligent

Computing, Intelligent Communication and Intelligent Devices. This volume covers contributions from Intelligent Computing, areas such as Intelligent and Distributed Computing, Intelligent Grid & Cloud Computing, Internet of Things, Soft Computing and Engineering Applications, Data Mining and Knowledge discovery, Semantic and Web Technology, and Bio-Informatics. This volume also covers paper from Intelligent Device areas such as Embedded Systems, RFID, VLSI Design & Electronic Devices, Analog and Mixed-Signal IC Design and Testing, Solar Cells and Photonics, Nano Devices and Intelligent Robotics. Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014 Volume 1 [Springer](#) This volume contains 95 papers presented at FICTA 2014: Third International Conference on Frontiers in Intelligent Computing: Theory and Applications. The conference was held during 14-15, November, 2014 at Bhubaneswar, Odisha, India. This volume contains papers mainly focused on Data Warehousing and Mining, Machine Learning, Mobile and Ubiquitous Computing, AI, E-commerce & Distributed Computing and Soft Computing, Evolutionary Computing, Bio-inspired Computing and its Applications. Distributed Computing and Intelligent Technology 18th International Conference, ICDCIT 2022, Bhubaneswar, India, January 19-23, 2022, Proceedings [Springer Nature](#) This book constitutes the proceedings of the 18th International Conference on Distributed Computing and Intelligent Technology, ICDCIT 2022, held in Bhubaneswar, India, in January 2021. The 11 full papers presented together with 4 short papers were carefully reviewed and selected from 50 submissions. There are also 4 invited papers included. The papers were organized in topical sections named: invited papers, distributed computing and intelligent technology. Distributed Computing -- IWDC 2004 6th International Workshop, Kolkata, India, December 27-30, 2004, Proceedings [Springer Science & Business Media](#) This book constitutes the refereed proceedings of the 6th International Workshop on Distributed Computing, IWDC 2004, held in Kolkata, India in December 2004. The 27 revised full papers and 27 revised short papers presented together with 3 invited contributions and abstracts of 11 reviewed workshop papers were carefully reviewed and selected from 157 submissions. The papers are organized in topical sections on distributed algorithms, high-performance computing, distributed systems, wireless networks, information security, network protocols, reliability and testing, network topology and routing, mobile computing, ad-hoc networks, and sensor networks. ICCCE 2019 Proceedings of the 2nd International Conference on Communications and Cyber Physical Engineering [Springer](#) This book is a collection research papers and articles from the 2nd International Conference on Communications and Cyber-Physical Engineering (ICCCE - 2019), held in Pune, India in Feb 2019. Discussing the latest developments in voice and data communication engineering, cyber-physical systems, network science, communication software, image- and multimedia processing research and applications, as well as communication technologies and other related technologies, it includes contributions from both academia and industry. Information Systems Design and Intelligent Applications Proceedings of Second International Conference INDIA 2015, Volume 1 [Springer](#) The second international conference on Information Systems Design and Intelligent Applications (INDIA - 2015) held in Kalyani, India during January 8-9, 2015. The book covers all aspects of information system design, computer science and technology, general sciences, and educational research. Upon a double blind review process, a number of high quality papers are selected and collected in the book, which is composed of two different volumes, and covers a variety of topics, including natural language processing, artificial intelligence, security and privacy, communications, wireless and sensor networks, microelectronics, circuit and systems, machine learning, soft computing, mobile computing and applications, cloud computing, software engineering, graphics and image processing, rural engineering, e-commerce, e-governance, business computing, molecular computing, nano-computing, chemical computing, intelligent computing for GIS and remote sensing, bio-informatics and bio-computing. These fields are not only limited to computer researchers but also include mathematics, chemistry, biology, bio-chemistry, engineering, statistics, and all others in which computer techniques may assist. Computational Intelligence Methods in COVID-19: Surveillance, Prevention, Prediction and Diagnosis [Springer Nature](#) The novel coronavirus disease 2019 (COVID-19) pandemic has posed a major threat to human life and health. This book is beneficial for interdisciplinary students, researchers, and professionals to understand COVID-19 and how computational intelligence can be used for the purpose of surveillance, control, prevention, prediction, diagnosis, and potential treatment of the disease. The book contains different aspects of COVID-19 that includes fundamental knowledge, epidemic forecast models, surveillance and tracking systems, IoT- and IoMT-based integrated systems for COVID-19, social network analysis systems for COVID-19, radiological images (CT, X-ray) based diagnosis system, and computational intelligence and in silico drug design and drug repurposing methods against COVID-19 patients. The contributing authors of this volume are experts in their fields and they are from various reputed universities and institutions across the world. This volume is a valuable and comprehensive resource for computer and data scientists, epidemiologists, radiologists, doctors, clinicians, pharmaceutical professionals, along with graduate and research students of interdisciplinary and multidisciplinary sciences. Automated Software Testing Foundations, Applications and Challenges [Springer Nature](#) This book covers both theory and applications in the automation of software testing tools and techniques for various types of software (e.g. object-oriented, aspect-oriented, and web-based software). When software fails, it is most often due to lack of proper and thorough testing, an aspect that is even more acute for object-oriented, aspect-oriented, and web-based software. Further, since it is more difficult to test distributed and service-oriented architecture-based applications, there is a pressing need to discuss the latest developments in automated software testing. This book discusses the most relevant issues, models, tools, challenges, and applications in automated software testing. Further, it brings together academic researchers, scientists, and engineers from a wide range of industrial application areas, who present their latest findings and identify future challenges in this fledging research area. Trustworthy Internet [Springer Science & Business Media](#) This book collects a selection of the papers presented at the 21st International Tyrrhenian Workshop on Digital Communications, organized by CNIT and dedicated this year to the theme

"Trustworthy Internet". The workshop provided a lively discussion on the challenges involved in reshaping the Internet into a trustworthy reality, articulated around the Internet by and for People, the Internet of Contents, the Internet of Services and the Internet of Things, supported by the Network Infrastructure foundation. The papers have been revised after the workshop to take account of feedbacks received by the audience. The book also includes: i) an introduction by the Editors, setting the scene and presenting evolution scenarios; ii) five papers written by the session chairmen, reputed scientists, and each dedicated to a facet of the trustworthy Internet vision; iii) a concluding paper, reporting the outcomes of a panel held at the conclusion of the workshop, written by the two keynote speakers. **Advances in Data and Information Sciences Proceedings of ICDIS-2017, Volume 1** [Springer](#) The book gathers a collection of high-quality peer-reviewed research papers presented at the International Conference on Data and Information Systems (ICDIS 2017), held at Indira Gandhi National Tribal University, India from November 3 to 4, 2017. The book covers all aspects of computational sciences and information security. In chapters written by leading researchers, developers and practitioner from academia and industry, it highlights the latest developments and technical solutions, helping readers from the computer industry capitalize on key advances in next-generation computer and communication technology. **Image Restoration Fundamentals and Advances** [CRC Press](#) **Image Restoration: Fundamentals and Advances** responds to the need to update most existing references on the subject, many of which were published decades ago. Providing a broad overview of image restoration, this book explores breakthroughs in related algorithm development and their role in supporting real-world applications associated with various scientific and engineering fields. These include astronomical imaging, photo editing, and medical imaging, to name just a few. The book examines how such advances can also lead to novel insights into the fundamental properties of image sources. Addressing the many advances in imaging, computing, and communications technologies, this reference strikes just the right balance of coverage between core fundamental principles and the latest developments in this area. Its content was designed based on the idea that the reproducibility of published works on algorithms makes it easier for researchers to build on each other's work, which often benefits the vitality of the technical community as a whole. For that reason, this book is as experimentally reproducible as possible. Topics covered include: Image denoising and deblurring Different image restoration methods and recent advances such as nonlocality and sparsity Blind restoration under space-varying blur Super-resolution restoration Learning-based methods Multi-spectral and color image restoration New possibilities using hybrid imaging systems Many existing references are scattered throughout the literature, and there is a significant gap between the cutting edge in image restoration and what we can learn from standard image processing textbooks. To fill that need but avoid a rehash of the many fine existing books on this subject, this reference focuses on algorithms rather than theories or applications. Giving readers access to a large amount of downloadable source code, the book illustrates fundamental techniques, key ideas developed over the years, and the state of the art in image restoration. It is a valuable resource for readers at all levels of understanding. **Advanced Computing** [Springer Science & Business Media](#) This proceedings volume collects review articles that summarize research conducted at the Munich Centre of Advanced Computing (MAC) from 2008 to 2012. The articles address the increasing gap between what should be possible in Computational Science and Engineering due to recent advances in algorithms, hardware, and networks, and what can actually be achieved in practice; they also examine novel computing architectures, where computation itself is a multifaceted process, with hardware awareness or ubiquitous parallelism due to many-core systems being just two of the challenges faced. Topics cover both the methodological aspects of advanced computing (algorithms, parallel computing, data exploration, software engineering) and cutting-edge applications from the fields of chemistry, the geosciences, civil and mechanical engineering, etc., reflecting the highly interdisciplinary nature of the Munich Centre of Advanced Computing. **Trusted Computing Platforms TCPA Technology in Context** [Prentice Hall Professional](#) The TCPA 1.0 specification finally makes it possible to build low-cost computing platforms on a rock-solid foundation of trust. In **Trusted Computing Platforms**, leaders of the TCPA initiative place it in context, offering essential guidance for every systems developer and decision-maker. They explain what trusted computing platforms are, how they work, what applications they enable, and how TCPA can be used to protect data, software environments, and user privacy alike. **Distributed Computing and Internet Technology 13th International Conference, ICDCIT 2017, Bhubaneswar, India, January 13-16, 2017, Proceedings** [Springer](#) This book constitutes the proceedings of the 13th International Conference on Distributed Computing and Internet Technology, ICDCIT 2017, held in Bhubaneswar, India, in January 2017. The 17 full papers and 3 poster papers presented together with 6 abstracts of invited talks were carefully reviewed and selected from 208 submissions (118 abstract and 90 full paper submissions). The ICDCIT conference focusses on mobile computing; analytics; distributed computing; virtual machines; access control; and security and privacy. **Impact of Information Society Research in the Global South** [Springer](#) The second volume in the SIRCA book series investigates the impact of information society initiatives by extending the boundaries of academic research into the realm of practice. Global in scope, it includes contributions and research projects from Asia, Africa and Latin America. The international scholarly community has taken a variety of approaches to question the impact of information society initiatives on populations in the Global South. This book addresses two aspects— Impact of research: How is the research on ICTs in the Global South playing a role in creating an information society? (e.g. policy formulation, media coverage, implementation in practice) and Research on impact: What is the evidence for the impact of ICTs on society? (i.e. the objectives of socio-economic development). This volume brings together a multiplicity of voices and approaches from social scientific research to produce an engaging volume for a variety of stakeholders including academics, researchers, practitioners, policy-makers and those in the business and civil sectors of society. **Computational Electromagnetic Transients Modeling, Solution Methods and Simulation** [I K International Pvt Limited](#) Provides the theory, models, solution methods and simulation techniques evolved

for several versions of EMTP over the last five decades. The focus is on one particular version - Microtran. The focus of the book is modelling and simulation algorithms for digital simulation and computation. Computer Vision and Image Processing 4th International Conference, CVIP 2019, Jaipur, India, September 27-29, 2019, Revised Selected Papers, Part II [Springer Nature](#) This two-volume set (CCIS 1147, CCIS 1148) constitutes the refereed proceedings of the 4th International Conference on Computer Vision and Image Processing. held in Jaipur, India, in September 2019. The 73 full papers and 10 short papers were carefully reviewed and selected from 202 submissions. The papers are organized by the topical headings in two parts. Part I: Biometrics; Computer Forensic; Computer Vision; Dimension Reduction; Healthcare Information Systems; Image Processing; Image segmentation; Information Retrieval; Instance based learning; Machine Learning. Part II: Neural Network; Object Detection; Object Recognition; Online Handwriting Recognition; Optical Character Recognition; Security and Privacy; Unsupervised Clustering. Applied Mathematics and Scientific Computing International Conference on Advances in Mathematical Sciences, Vellore, India, December 2017 - Volume II [Springer](#) This volume is the first of two containing selected papers from the International Conference on Advances in Mathematical Sciences (ICAMS), held at the Vellore Institute of Technology in December 2017. This meeting brought together researchers from around the world to share their work, with the aim of promoting collaboration as a means of solving various problems in modern science and engineering. The authors of each chapter present a research problem, techniques suitable for solving it, and a discussion of the results obtained. These volumes will be of interest to both theoretical- and application-oriented individuals in academia and industry. Papers in Volume I are dedicated to active and open areas of research in algebra, analysis, operations research, and statistics, and those of Volume II consider differential equations, fluid mechanics, and graph theory. Lecture Notes in Computational Intelligence and Decision Making Proceedings of the XV International Scientific Conference "Intellectual Systems of Decision Making and Problems of Computational Intelligence" (ISDMCI'2019), Ukraine, May 21-25, 2019 [Springer](#) Information and computer technologies for data analysis and processing in various fields of data mining and machine learning generates the conditions for increasing the effectiveness of information processing by making it faster and more accurate. The book includes 49 scientific papers presenting the latest research in the fields of data mining, machine learning and decision-making. Divided into three sections: "Analysis and Modeling of Complex Systems and Processes"; "Theoretical and Applied Aspects of Decision-Making Systems"; and "Computational Intelligence and Inductive Modeling", the book is of interest to scientists and developers in the field. Software Services for e-World 10th IFIP WG 6.11 Conference on e-Business, e-Services, and e-Society, I3E 2010, Buenos Aires, Argentina, November 3-5, 2010, Proceedings [Springer Science & Business Media](#) th I3E 2010 marked the 10 anniversary of the IFIP Conference on e-Business, e-Services, and e-Society, continuing a tradition that was invented in 1998 during the International Conference on Trends in Electronic Commerce, TrEC 1998, in Hamburg (Germany). Three years later the inaugural I3E 2001 conference was held in Zurich (Switzerland). Since then I3E has made its journey through the world: 2002 Lisbon (Portugal), 2003 Sao Paulo (Brazil), 2004 Toulouse (France), 2005 Poznan (Poland), 2006 Turku (Finland), 2007 Wuhan (China), 2008 Tokyo (Japan), and 2009 Nancy (France). I3E 2010 took place in Buenos Aires (Argentina) November 3-5, 2010. Known as "The Pearl" of South America, Buenos Aires is a cosmopolitan, colorful, and vibrant city, surprising its visitors with a vast variety of cultural and artistic performances, European architecture, and the passion for tango, coffee places, and football disc- sions. A cultural reference in Latin America, the city hosts 140 museums, 300 theaters, and 27 public libraries including the National Library. It is also the main educational center in Argentina and home of renowned universities including the U- versity of Buenos Aires, created in 1821. Besides location, the timing of I3E 2010 is th also significant--it coincided with the 200 anniversary celebration of the first local government in Argentina. Architectures and Protocols for Secure Information Technology Infrastructures [IGI Global](#) With the constant stream of emails, social networks, and online bank accounts, technology has become a pervasive part of our everyday lives, making the security of these information systems an essential requirement for both users and service providers. Architectures and Protocols for Secure Information Technology Infrastructures investigates different protocols and architectures that can be used to design, create, and develop security infrastructures by highlighting recent advances, trends, and contributions to the building blocks for solving security issues. This book is essential for researchers, engineers, and professionals interested in exploring recent advances in ICT security. Modeling, Simulation and Optimization Proceedings of CoMSO 2020 [Springer Nature](#) This book includes selected peer-reviewed papers presented at the International Conference on Modeling, Simulation and Optimization, organized by National Institute of Technology, Silchar, Assam, India, during 3-5 August 2020. The book covers topics of modeling, simulation and optimization, including computational modeling and simulation, system modeling and simulation, device/VLSI modeling and simulation, control theory and applications, modeling and simulation of energy system and optimization. The book disseminates various models of diverse systems and includes solutions of emerging challenges of diverse scientific fields. Advances in Distributed Computing and Machine Learning Proceedings of ICADCML 2020 [Springer Nature](#) This book presents recent advances in the field of distributed computing and machine learning, along with cutting-edge research in the field of Internet of Things (IoT) and blockchain in distributed environments. It features selected high-quality research papers from the First International Conference on Advances in Distributed Computing and Machine Learning (ICADCML 2020), organized by the School of Information Technology and Engineering, VIT, Vellore, India, and held on 30-31 January 2020. Blockchain for Cyberphysical Systems [Artech House](#) This exciting book will explore how Blockchain (BC) technology has the potential to overcome challenges in the current cyber- physical system (CPS) environment. BC is a timestamp ledger of blocks that is used for storing and sharing data in a distributed manner. BC has attracted attention from practitioners and academics in different disciplines, including law, finance, and computer science, due to its use of distributed structure, immutability and security and privacy.

However, applying blockchain in a cyber-physical system (CPS) is not straightforward and involves challenges, including lack of scalability, resource consumption, and delay. This book will provide a comprehensive study on blockchain for CPS. CPS and the existing solutions in CPS and will outline the limitations are presented. The key features of blockchain and its salient features which makes it an attractive solution for CPS are discussed. The fundamental challenges in adopting blockchain for CPS including scalability, delay, and resource consumption are presented and described. Blockchain applications in smart grids, smart vehicles, supply chain; and IoT Data marketplaces are explored. The future research directions to further improve blockchain performance in CPS is also provided. Big Data, Machine Learning, and Applications First International Conference, BigDML 2019, Silchar, India, December 16-19, 2019, Revised Selected Papers [Springer Nature](#) This book constitutes refereed proceedings of the First International First International Conference on Big Data, Machine Learning, and Applications, BigDML 2019, held in Silchar, India, in December. The 6 full papers and 3 short papers were carefully reviewed and selected from 152 submissions. The papers present research on such topics as computing methodology; machine learning; artificial intelligence; information systems; security and privacy. Fun with Algorithms 4th International Conference, FUN 2007, Castiglione, Italy, June 3-5, 2007, Proceedings [Springer](#) This book constitutes the refereed proceedings of the 4th International Conference on Fun with Algorithms, FUN 2007, held in Castiglione, Italy in June 2007. It details the use, design, and analysis of algorithms and data structures, focusing on results that provide amusing, witty, but nonetheless original and scientifically profound, contributions to the area. Mobile Platform Security [Morgan & Claypool Publishers](#) Recently, mobile security has garnered considerable interest in both the research community and industry due to the popularity of smartphones. The current smartphone platforms are open systems that allow application development, also for malicious parties. To protect the mobile device, its user, and other mobile ecosystem stakeholders such as network operators, application execution is controlled by a platform security architecture. This book explores how such mobile platform security architectures work. We present a generic model for mobile platform security architectures: the model illustrates commonly used security mechanisms and techniques in mobile devices and allows a systematic comparison of different platforms. We analyze several mobile platforms using the model. In addition, this book explains hardware-security mechanisms typically present in a mobile device. We also discuss enterprise security extensions for mobile platforms and survey recent research in the area of mobile platform security. The objective of this book is to provide a comprehensive overview of the current status of mobile platform security for students, researchers, and practitioners. Table of Contents: Preface / Introduction / Platform Security Model / Mobile Platforms / Platform Comparison / Mobile Hardware Security / Enterprise Security Extensions / Platform Security Research / Conclusions / Bibliography / Authors' Biographies Geoinformatics in Applied Geomorphology [CRC Press](#) With recent innovations in the arena of remote sensing and geographic information systems, the use of geoinformatics in applied geomorphology is receiving more attention than ever. Geoinformatics in Applied Geomorphology examines how modern concepts, technologies, and methods in geoinformatics can be used to solve a wide variety of applied geomorphologic problems, such as characterization of arid, coastal, fluvial, aeolian, glacial, karst, and tectonic landforms; natural hazard zoning and mitigations; petroleum exploration; and groundwater exploration and management. Using case studies to illustrate concepts and methods, this book covers: Arid environments, such as the Thar desert, West Texas, the Qatar Peninsula, and the Dead Sea areas Coastal shoreline changes in Kuwait Coastal zone management in India Estuarine bathymetric study of Tampa Bay, Florida Fluvial landforms of the Elbe river basin, Germany Subsurface coastal geomorphology and coastal morphological changes due to tsunamis in the East coast of India The Himalayas, Jammu & Kashmir, Western Ghats, and Precambrian terrain of South India The result of extensive research by an interdisciplinary team of contributors, Geoinformatics in Applied Geomorphology is designed for students, researchers, and professionals in the areas of geomorphology, geological engineering, geography, remote sensing, and geographic information systems.