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Theory of Quantum Computation, Communication, and Cryptography Quantum Information, Computation and Communication
Theory of Quantum Computation, Communication and Cryptography Quantum Computation and Quantum Communication: Elements
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Smart Innovations in Communication and Computational Sciences Smart Intelligent Computing and Communication Technology
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Emerging Research in Computing, Information, Communication and Applications Information, Communication and Computing
Technology Communication Complexity and Parallel Computing Distributed Computer and Communication Networks Security,
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in B5G Cellular Internet of Things

Quantum Computation and Quantum Communication: Nov 17 2022 The field of quantum computing has experienced rapid development and many different experimental and theoretical groups have emerged worldwide. This book presents the key elements of quantum computation and communication theories and their implementation in an easy-to-read manner for readers coming from physics, mathematics and computer science backgrounds. Integrating both theoretical aspects and experimental verifications of developing quantum computers, the author explains why particular mathematical methods, physical models and realistic implementations might provide critical steps towards achieving the final goal - constructing quantum computers and quantum networks. The book serves as an excellent introduction for new researchers and also provides a useful review for specialists in the field

Proceedings of the International Conference on Paradigms of Computing, Communication and Data Sciences Nov 05 2021 This book presents best selected papers presented at the International Conference on Paradigms of Computing, Communication and Data Sciences (PCCDS 2020), organized by National Institute of Technology, Kurukshetra, India, during 1–3 May 2020. It discusses high-quality and cutting-edge research in the areas of advanced computing, communications and data science techniques. The book is a collection of latest research articles in computation algorithm, communication and data sciences, intertwined with each other for efficiency.

Elements of Quantum Computation and Quantum Communication Oct 16 2022 While there are many available textbooks on quantum information theory, most are either too technical for beginners or not complete enough. Filling this gap, Elements of Quantum Computation and Quantum Communication gives a clear, self-contained introduction to quantum computation and communication. Written primarily for undergraduate students in p

Security, Privacy, and Anonymity in Computation, Communication, and Storage Jun 12 2022 This book constitutes the refereed proceedings of the 9th International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage, SpaCCS 2016, held in Zhangjiajie, China, in November 2016. The 40 papers presented in this volume were carefully reviewed and selected from 110 submissions. They are organized in topical sections including security algorithms and architectures, privacy-aware policies, regulations and techniques, anonymous computation and communication, encompassing fundamental theoretical approaches, practical experimental projects, and commercial application systems for computation, communication and storage.

Quantum Information, Computation and Communication Jan 19 2023 Based on years of teaching experience, this textbook guides physics undergraduate students through the theory and experiment of the field.

Security, Privacy, and Anonymity in Computation, Communication, and Storage Jan 15 2020 This book constitutes the refereed proceedings of six symposiums and two workshops co-located with SpaCCS 2019, the 12th International Conference on Security, Privacy, and Anonymity in Computation, Communication, and Storage. The 26 full papers were carefully reviewed and selected from

75 submissions. This year's symposiums and workshops are: SPIoT 2019 – Security and Privacy of Internet of Things; TSP 2019 – Trust, Security and Privacy for Emerging Applications; SCS 2019 – Sensor-Cloud Systems; UbiSafe 2019 – UbiSafe Computing; ISSR 2019 – Security in e-Science and e-Research; CMRM 2019 – Cybersecurity Metrics and Risk Modeling.

Smart Innovations in Communication and Computational Sciences Jan 27 2021 This book presents the latest advances and research findings in the fields of computational science and communication presented at the International Conference on Smart Innovations in Communications and Computational Sciences (ICSICCS 2020). The areas covered include smart innovation; systems and technologies; embedded knowledge and intelligence; innovation and sustainability; advanced computing; networking and informatics. It also focuses on the knowledge-transfer methodologies and the innovation strategies employed to make these effective. This fascinating compilation appeals to researchers, academics and engineers around the globe.

Quantum Communication, Computing, and Measurement Jul 13 2022 This volume contains the proceedings of the Third International Conference on Quantum Communication and Measurement. The series of international conferences on quantum communication and measurement was established to encourage scientists working in the interdisciplinary research fields of quantum communication science and technology. The first such conference, organized by C. Benjaballah and O. Hirota under the title "Quantum Aspects of Optical Communication," assembled approximately 80 researchers in Paris in 1990. The second conference, held in Nottingham in 1994, was organized by V. P. Belavkin, R. L. Hudson, and O. Hirota and attracted about 130 participants from 22 countries. The present conference, organized by O. Hirota, A. S. Holevo, C. M. Caves, H. P. Yuen, and L. Accardi, was held September 25-30, 1996, in Fuji-Hakone Land, Japan, and involved about 120 researchers from 15 countries. The topics at this third conference included the foundations of quantum communication and information theory, quantum measurement theory, quantum cryptography and quantum computation, quantum devices and high-precision measurements, generation of nonclassical light, and atom optics. Special emphasis was placed on bringing together research workers in experimental and engineering fields of quantum communication and quantum computing and theoreticians working in quantum measurement and information theory. Nineteen plenary and parallel sessions and one poster session were organized, at which a total of 82 papers were presented. Interesting and stimulating scientific discussions took place between and after sessions as well as in the evenings.

Emerging Research in Computing, Information, Communication and Applications May 19 2020 This book presents the proceedings of International Conference on Emerging Research in Computing, Information, Communication and Applications, ERCICA 2020. The conference provides an interdisciplinary forum for researchers, professional engineers and scientists, educators and technologists to discuss, debate and promote research and technology in the upcoming areas of computing, information, communication and their applications. The book discusses these emerging research areas, providing a valuable resource for researchers and practicing engineers alike.

Quantum Computing and Quantum Communications Mar 09 2022 This book contains selected papers presented at the First NASA

International Conference on Quantum Computing and Quantum Communications, QCQC'98, held in Palm Springs, California, USA in February 1998. As the record of the first large-scale meeting entirely devoted to quantum computing and communications, this book is a unique survey of the state-of-the-art in the area. The 43 carefully reviewed papers are organized in topical sections on entanglement and quantum algorithms, quantum cryptography, quantum copying and quantum information theory, quantum error correction and fault-tolerant quantum computing, and embodiments of quantum computers.

Communication and Computing Systems May 31 2021 The International Conference on Communication and Computing Systems (ICCCS 2018) provides a high-level international forum for researchers and recent advances in the field of electronic devices, computing, big data analytics, cyber security, quantum computing, biocomputing, telecommunication, etc. The aim of the conference was to bridge the gap between the technological advancements in the industry and the academic research.

Intelligent Computing, Communication and Devices Feb 08 2022 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.

Opportunities and Challenges for Computational Social Science Methods Apr 29 2021 We are living in a digital era in which most of our daily activities take place online. This has created a big data phenomenon that has been subject to scientific research with increasingly available tools and processing power. As a result, a growing number of social science scholars are using computational methods for analyzing social behavior. To further the area, these evolving methods must be made known to sociological research scholars. Opportunities and Challenges for Computational Social Science Methods focuses on the implementation of social science methods and the opportunities and challenges of these methods. This book sheds light on the infrastructure that should be built to gain required skillsets, the tools used in computational social sciences, and the methods developed and applied into computational social sciences. Covering topics like computational communication, ecological cognition, and natural language processing, this book is an essential resource for researchers, data scientists, scholars, students, professors, sociologists, and academicians.

Mathematics for Future Computing and Communications Jun 19 2020 A panorama of new ideas in mathematics that are driving innovation in computing and communications.

At the Nexus of Cybersecurity and Public Policy Feb 25 2021 We depend on information and information technology (IT) to make

many of our day-to-day tasks easier and more convenient. Computers play key roles in transportation, health care, banking, and energy. Businesses use IT for payroll and accounting, inventory and sales, and research and development. Modern military forces use weapons that are increasingly coordinated through computer-based networks. Cybersecurity is vital to protecting all of these functions. Cyberspace is vulnerable to a broad spectrum of hackers, criminals, terrorists, and state actors. Working in cyberspace, these malevolent actors can steal money, intellectual property, or classified information; impersonate law-abiding parties for their own purposes; damage important data; or deny the availability of normally accessible services. Cybersecurity issues arise because of three factors taken together - the presence of malevolent actors in cyberspace, societal reliance on IT for many important functions, and the presence of vulnerabilities in IT systems. What steps can policy makers take to protect our government, businesses, and the public from those who would take advantage of system vulnerabilities? *At the Nexus of Cybersecurity and Public Policy* offers a wealth of information on practical measures, technical and nontechnical challenges, and potential policy responses. According to this report, cybersecurity is a never-ending battle; threats will evolve as adversaries adopt new tools and techniques to compromise security. Cybersecurity is therefore an ongoing process that needs to evolve as new threats are identified. *At the Nexus of Cybersecurity and Public Policy* is a call for action to make cybersecurity a public safety priority. For a number of years, the cybersecurity issue has received increasing public attention; however, most policy focus has been on the short-term costs of improving systems. In its explanation of the fundamentals of cybersecurity and the discussion of potential policy responses, this book will be a resource for policy makers, cybersecurity and IT professionals, and anyone who wants to understand threats to cyberspace.

Smart Intelligent Computing and Communication Technology Dec 26 2020 Recent developments in the fields of intelligent computing and communication have paved the way for the handling of current and upcoming problems and brought about significant technological advancements. This book presents the proceedings of IConIC 2021, the 4th International Conference on Intelligent Computing, held on 26 and 27 March 2021 in Chennai, India. The principle objective of the annual IConIC conference is to provide an international scientific forum where participants can exchange innovative ideas in relevant fields and interact in depth through discussion with their peer group. The theme of the 2021 conference and this book is 'Smart Intelligent Computing and Communication Technology', and the 109 papers included here focus on the technological innovations and trendsetting initiatives in medicine, industry, education and security that are improving and optimizing business and technical processes and enabling inclusive growth. The papers are grouped under 2 headings: Evolution of Computing Intelligence; and Computing and Communication, and cover a broad range of intelligent-computing research and applications. The book provides an overview of the cutting-edge developments and emerging areas of study in the technological fields of intelligent computing, and will be of interest to researchers and practitioners from both academia and industry.

Quantum Computing and Communications Apr 10 2022 Quantum computers will revolutionize the way telecommunications networks function. Quantum computing holds the promise of solving problems that would be intractable with conventional computers by

implementing principles from quantum physics in the development of computer hardware, software and communications equipment. Quantum-assisted computing will be the first step towards full quantum systems, and will cause immense disruption of our traditional networks. The world's biggest manufacturers are investing large amounts of resources to develop crucial quantum-assisted circuits and devices. **Quantum Computing and Communications**: Gives an overview of basic quantum computing algorithms and their enhanced versions such as efficient database searching, counting and phase estimation. Introduces quantum-assisted solutions for telecom problems including multi-user detection in mobile systems, routing in IP based networks, and secure ciphering key distribution. Includes an accompanying website featuring exercises (with solution manual) and sample algorithms from the classical telecom world, corresponding quantum-based solutions, bridging the gap between pure theory and engineering practice. This book provides telecommunications engineers, as well as graduate students and researchers in the fields of computer science and telecommunications, with a wide overview of quantum computing & communications and a wealth of essential, practical information.

Theory of Quantum Computation, Communication, and Cryptography Feb 20 2023 This book constitutes the thoroughly refereed post-conference proceedings of the 6th Conference on Theory of Quantum Computation, Communication, and Cryptography, TQC 2011, held in Madrid, Spain, in May 2011. The 14 revised papers presented were carefully selected from numerous submissions. The papers present new and original research and cover a large range of topics in quantum computation, communication and cryptography, a new and interdisciplinary field at the intersection of computer science, information theory and quantum mechanics.

Design Through Digital Interaction Nov 24 2020 This text provides an introduction to the emerging field of Computer Supported Collaborative Design (CSCD), presenting a survey of experiments in computer-supported collaborative drawing and design activities, and assessing their implications.

Theory of Quantum Computation, Communication, and Cryptography Sep 15 2022 This book constitutes the thoroughly refereed post-workshop proceedings of the Third Workshop on Theory of Quantum Computation, Communication, and Cryptography, TQC 2008, held in Tokyo, Japan, in January/February 2008. The 10 revised full papers presented were carefully selected during two rounds of reviewing and improvement. The papers present current original research and focus on theoretical aspects of quantum computation, quantum communication, and quantum cryptography, which are part of a larger interdisciplinary field that casts information science in a quantum mechanical framework.

Distributed Computer and Communication Networks Feb 14 2020 This book constitutes the refereed post-conference proceedings of the 23rd International Conference on Distributed and Computer and Communication Networks, DCCN 2020, held in Moscow, Russia, in September 2020. The 54 revised full papers and 1 revised short paper were carefully reviewed and selected from 167 submissions. The papers cover the following topics: computer and communication networks; analytical modeling of distributed systems; and distributed systems applications.

Fundamentals of Quantum Information Dec 14 2019 Quantum information science is a rapidly developing field that not only promises

a revolution in computer sciences but also touches deeply the very foundations of quantum physics. This book consists of a set of lectures by leading experts in the field that bridges the gap between standard textbook material and the research literature, thus providing the necessary background for postgraduate students and non-specialist researchers wishing to familiarize themselves with the subject thoroughly and at a high level. This volume is ideally suited as a course book for postgraduate students, and lecturers will find in it a large choice of material for bringing their courses up to date.

Quantum Computing and Communications Dec 06 2021 The first handbook to provide a comprehensive inter-disciplinary overview of QCC. It includes peer-reviewed definitions of key terms such as Quantum Logic Gates, Error Correction, Quantum Dots, Nuclear Magnetic Resonance, Quantum Holography, and Quantum Cryptography. There are also reports on major application areas, principles of QCC, and targets, benchmarks and challenges, making this an invaluable buy for any university department with this exciting new topic in its curriculum. It equally provides a unique overview of a fast-moving and multidisciplinary topic for researchers, students, lecturers, and even the interested amateur.

Open Problems in Communication and Computation Jul 01 2021 Thomas M. Cover and B. Gopinath The papers in this volume are the contributions to a special workshop on problems in communication and computation conducted in the summers of 1984 and 1985 in Morristown, New Jersey, and the summer of 1986 in Palo Alto, California. The structure of this workshop was unique: no recent results. no surveys. Instead, we asked for outstanding open problems in the field. There are many famous open problems, including the question $P = NP?$, the simplex conjecture in communication theory, the capacity region of the broadcast channel, and the two-helper problem in information theory. Beyond these well-defined problems are certain grand research goals. What is the general theory of information flow in stochastic networks? What is a comprehensive theory of computational complexity? What about a unification of algorithmic complexity and computational complexity? Is there a notion of energy-free computation? And if so, where do information theory, communication theory, computer science, and physics meet at the atomic level? Is there a duality between computation and communication? Finally, what is the ultimate impact of algorithmic complexity on probability theory? And what is its relationship to information theory? The idea was to present problems on the first day, try to solve them on the second day, and present the solutions on the third day. In actual fact, only one problem was solved during the meeting -- El Gamal's problem on noisy communication over a common line.

Computing, Communication and Learning Oct 24 2020 This volume constitutes the refereed proceedings of the First International Conference on Computing, Communication and Learning, CoCoLe 2022, held in Warangal, India, in October 2022. The 25 full papers and 1 short paper presented were carefully reviewed and selected from 117 submissions. The CoCoLe conference focuses on three broad areas of computer science and other allied branches, namely computing, communication, and learning.

Convergence of Energy, Communication and Computation in B5G Cellular Internet of Things Oct 12 2019 This book focuses on the convergence of energy, communication and computation in the beyond 5G (B5G) cellular Internet of Things (IoT). It addresses

both theory and techniques, with more weight placed on the latter. This is achieved by providing in-depth studies on a number of major topics such as wireless power transfer, non-orthogonal multiple access, massive multiple-input multiple-output, and over-air computation. In turn, four typical convergence scenarios are studied in detail: the convergence of energy and communication, convergence of energy and computation, convergence of communication and computation, and convergence of energy, communication and computation. The comprehensive and systematic coverage of key techniques in the convergence of energy, communication and computation in the B5G cellular IoT is one of the book's major features, making it particularly well suited for readers who are interested in learning about practical solutions in B5G wireless networks. Accordingly, the book offers a valuable resource for researchers, engineers, and graduate students in the fields of information engineering, telecommunications engineering, computer engineering, etc.

Distributed Computer and Communication Networks: Control, Computation, Communications Jul 21 2020 This book constitutes the refereed post-conference proceedings of the 24th International Conference on Distributed and Computer and Communication Networks, DCCN 2021, held in Moscow, Russia, in September 2021. The 26 revised full papers and 3 revised short papers were carefully reviewed and selected from 151 submissions. The papers cover the following topics: computer and communication networks; analytical modeling of distributed systems; and distributed systems applications.

Advances in Communication and Computing Aug 02 2021 The present volume is a compilation of research work in computation, communication, vision sciences, device design, fabrication, upcoming materials and related process design, etc. It is derived out of selected manuscripts submitted to the 2014 National Workshop on Advances in Communication and Computing (WACC 2014), Assam Engineering College, Guwahati, Assam, India which is emerging out to be a premier platform for discussion and dissemination of knowhow in this part of the world. The papers included in the volume are indicative of the recent thrust in computation, communications and emerging technologies. Certain recent advances in ZnO nanostructures for alternate energy generation provide emerging insights into an area that has promises for the energy sector including conservation and green technology. Similarly, scholarly contributions have focused on malware detection and related issues. Several contributions have focused on biomedical aspects including contributions related to cancer detection using active learning, application of clinical information in MECG using sample and channel convolution matrices for better diagnostic decision, etc. Some other works have focused on the DCT-domain linear regression of ECG signals, SVD Analysis on reduced 3-lead ECG data, the quantification of diagnostic information on ECG signal, a compressed sensing approach with application in MRI, learning aided image de-noising for medical applications, etc. Some works have dealt with application of audio fingerprinting for multi-lingual Indian song retrieval, semi-automatic approach to segmentation and the marking of pitch contours for prosodic analysis, semiautomatic syllable labeling for Assamese language, stressed speech recognition, handwriting recognition in Assamese script, speaker verification considering the effect of session variability and the block matching for motion estimation, etc. The primary objective of the present volume is to prepare a document for dissemination of and

discussion on emerging areas of research in computation and communication as aimed by WACC 2014. We hope that the volume will serve as a reference book for researchers in these areas.

Theory of Quantum Computation, Communication, and Cryptography Aug 14 2022

Computing in Communication Networks Sep 03 2021 *Computing in Communication Networks: From Theory to Practice* provides comprehensive details and practical implementation tactics on the novel concepts and enabling technologies at the core of the paradigm shift from store and forward (dumb) to compute and forward (intelligent) in future communication networks and systems. The book explains how to create virtualized large scale testbeds using well-established open source software, such as Mininet and Docker. It shows how and where to place disruptive techniques, such as machine learning, compressed sensing, or network coding in a newly built testbed. In addition, it presents a comprehensive overview of current standardization activities. Specific chapters explore upcoming communication networks that support verticals in transportation, industry, construction, agriculture, health care and energy grids, underlying concepts, such as network slicing and mobile edge cloud, enabling technologies, such as SDN/NFV/ ICN, disruptive innovations, such as network coding, compressed sensing and machine learning, how to build a virtualized network infrastructure testbed on one's own computer, and more. Provides a uniquely comprehensive overview on the individual building blocks that comprise the concept of computing in future networks Gives practical hands-on activities to bridge theory and implementation Includes software and examples that are not only employed throughout the book, but also hosted on a dedicated website

Security, Privacy, and Anonymity in Computation, Communication, and Storage Sep 22 2020 This book constitutes seven refereed workshops and symposiums, SpaCCS Workshops 2020, which are held jointly with the 13th International Conference on Security, Privacy, and Anonymity in Computation, Communication, and Storage, SpaCCS 2020, in Nanjing, China, in December 2020. The 48 papers were carefully reviewed and selected from 131 submissions and cover a broad range of topics on security, privacy and anonymity in computation communication, and storage, including the 11th International Workshop on Trust, Security and Privacy for Big Data (TrustData 2020), the 10th International Symposium on Trust, Security and Privacy for Emerging Applications (TSP 2020), the 9th International Symposium on Security and Privacy on Internet of Things (SPIoT 2020), the 6th International Symposium on Sensor-Cloud Systems (SCS 2020), the Second International Workshop on Communication, Computing, Informatics and Security (CCIS 2020), the First International Workshop on Intelligence and Security in Next Generation Networks (ISNGN 2020), the First International Symposium on Emerging Information Security and Applications (EISA 2020).

Computational Methods for Communication Science Oct 04 2021 *Computational Methods for Communication Science* showcases the use of innovative computational methods in the study of communication. This book discusses the validity of using big data in communication science and showcases a number of new methods and applications in the fields of text and network analysis.

Computational methods have the potential to greatly enhance the scientific study of communication because they allow us to move towards collaborative large-N studies of actual behavior in its social context. This requires us to develop new skills and infrastructure

and meet the challenges of open, valid, reliable, and ethical "big data" research. This volume brings together a number of leading scholars in this emerging field, contributing to the increasing development and adaptation of computational methods in communication science. The chapters in this book were originally published as a special issue of the journal *Communication Methods and Measures*.

Theory of Quantum Computation, Communication and Cryptography Dec 18 2022 This book constitutes the thoroughly refereed post-workshop proceedings of the 4th Workshop on Theory of Quantum Computation, Communication, and Cryptography, TQC 2009, held in Waterloo, Canada, in May 2009. The 10 revised papers presented were carefully selected during two rounds of reviewing and improvement. The papers present current original research and focus on theoretical aspects of quantum computation, quantum communication, and quantum cryptography, which are part of a larger interdisciplinary field embedding information science in a quantum mechanical framework. Topics addressed are such as quantum algorithms, models of quantum computation, quantum complexity theory, simulation of quantum systems, quantum cryptography, quantum communication, quantum estimation and measurement, quantum noise, quantum coding theory, fault-tolerant quantum computing, and entanglement theory.

Quantum Computation and Quantum Information May 11 2022 One of the most cited books in physics of all time, *Quantum Computation and Quantum Information* remains the best textbook in this exciting field of science. This 10th anniversary edition includes an introduction from the authors setting the work in context. This comprehensive textbook describes such remarkable effects as fast quantum algorithms, quantum teleportation, quantum cryptography and quantum error-correction. Quantum mechanics and computer science are introduced before moving on to describe what a quantum computer is, how it can be used to solve problems faster than 'classical' computers and its real-world implementation. It concludes with an in-depth treatment of quantum information. Containing a wealth of figures and exercises, this well-known textbook is ideal for courses on the subject, and will interest beginning graduate students and researchers in physics, computer science, mathematics, and electrical engineering.

Security, Privacy, and Anonymity in Computation, Communication, and Storage Mar 29 2021 This book constitutes the refereed proceedings of the 12th International Conference on Security, Privacy, and Anonymity in Computation, Communication, and Storage, SpaCCS 2019, held in Atlanta, GA, USA in July 2019. The 37 full papers were carefully reviewed and selected from 109 submissions. The papers cover many dimensions including security algorithms and architectures, privacy-aware policies, regulations and techniques, anonymous computation and communication, encompassing fundamental theoretical approaches, practical experimental projects, and commercial application systems for computation, communication and storage.

Information, Communication and Computing Technology Apr 17 2020 This book constitutes the refereed proceedings of the Second International Conference on Information, Communication and Computing Technology, ICICCT 2017, held in New Delhi, India, in May 2017. The 29 revised full papers and the 5 revised short papers presented in this volume were carefully reviewed and selected from 219 submissions. The papers are organized in topical sections on network systems and communication security; software engineering; algorithm and high performance computing.

Communication Complexity and Parallel Computing Mar 17 2020 The communication complexity of two-party protocols is an only 15 years old complexity measure, but it is already considered to be one of the fundamental complexity measures of recent complexity theory. Similarly to Kolmogorov complexity in the theory of sequential computations, communication complexity is used as a method for the study of the complexity of concrete computing problems in parallel information processing. Especially, it is applied to prove lower bounds that say what computer resources (time, hardware, memory size) are necessary to compute the given task. Besides the estimation of the computational difficulty of computing problems the proved lower bounds are useful for proving the optimality of algorithms that are already designed. In some cases the knowledge about the communication complexity of a given problem may be even helpful in searching for efficient algorithms to this problem. The study of communication complexity becomes a well-defined independent area of complexity theory. In addition to a strong relation to several fundamental complexity measures (and so to several fundamental problems of complexity theory) communication complexity has contributed to the study and to the understanding of the nature of determinism, nondeterminism, and randomness in algorithmics. There already exists a non-trivial mathematical machinery to handle the communication complexity of concrete computing problems, which gives a hope that the approach based on communication complexity will be instrumental in the study of several central open problems of recent complexity theory.

Nature of Computation and Communication Jan 07 2022 This book constitutes the post-conference proceedings of the Second International Conference on Nature of Computation and Communication, ICTCC 2016, held in March 2016 in Rach Gia, Vietnam. The 36 revised full papers presented were carefully reviewed and selected from over 100 submissions. The papers cover formal methods for self-adaptive systems and discuss natural approaches and techniques for computation and communication.

Machine Learning and Cognitive Computing for Mobile Communications and Wireless Networks Nov 12 2019 Communication and network technology has witnessed recent rapid development and numerous information services and applications have been developed globally. These technologies have high impact on society and the way people are leading their lives. The advancement in technology has undoubtedly improved the quality of service and user experience yet a lot needs to be still done. Some areas that still need improvement include seamless wide-area coverage, high-capacity hot-spots, low-power massive-connections, low-latency and high-reliability and so on. Thus, it is highly desirable to develop smart technologies for communication to improve the overall services and management of wireless communication. Machine learning and cognitive computing have converged to give some groundbreaking solutions for smart machines. With these two technologies coming together, the machines can acquire the ability to reason similar to the human brain. The research area of machine learning and cognitive computing cover many fields like psychology, biology, signal processing, physics, information theory, mathematics, and statistics that can be used effectively for topology management. Therefore, the utilization of machine learning techniques like data analytics and cognitive power will lead to better performance of communication and wireless systems.

Security, Privacy, and Anonymity in Computation, Communication, and Storage Aug 22 2020 This book constitutes the refereed

proceedings of six symposiums and two workshops co-located with SpaCCS 2019, the 12th International Conference on Security, Privacy, and Anonymity in Computation, Communication, and Storage. The 26 full papers were carefully reviewed and selected from 75 submissions. This year's symposiums and workshops are: SPIoT 2019 - Security and Privacy of Internet of Things; TSP 2019 - Trust, Security and Privacy for Emerging Applications; SCS 2019 - Sensor-Cloud Systems; UbiSafe 2019 - UbiSafe Computing; ISSR 2019 - Security in e-Science and e-Research; CMRM 2019 - Cybersecurity Metrics and Risk Modeling.

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