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Communication devices such as smart phones, GPS systems, and Bluetooth, are now part of our daily lives more than ever before. As our communication equipment becomes more sophisticated, so do the radios and other hardware required to enable that technology. Common radio architectures are required to make this technology work seamlessly. This resource describes practical aspects of radio frequency communications systems design, bridging the gap between system-level design considerations and circuit-level design specifications.

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Industry experts not only provide detailed calculations and theory to determine block level specifications, but also discuss basic theory and operational concepts. This resource also includes extensive, up-to-date application examples.

This book presents the proceedings of the 5th International Conference on Electrical, Control & Computer Engineering 2019, held in Kuantan, Pahang, Malaysia, on 29th July 2019. Consisting of two parts, it covers the conferences ' main foci: Part 1 discusses instrumentation, robotics and control, while Part 2 addresses electrical power systems. The book

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appeals to professionals, scientists and researchers with experience in industry. The conference provided a platform for professionals, scientists and researchers with experience in industry.

The H-function or popularly known in the literature as Fox ' s H-function has recently found applications in a large variety of problems connected with reaction, diffusion, reaction–diffusion, engineering and communication, fractional differential and integral equations, many areas of theoretical physics, statistical distribution theory, etc. One of the standard books and most cited book on the topic is the 1978 book of Mathai and Saxena. Since then,

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the subject has grown a lot, mainly in the fields of applications. Due to popular demand, the authors were requested to - grade and bring out a revised edition of the 1978 book. It was decided to bring out a new book, mostly dealing with recent applications in statistical distributions, pa- way models, nonextensive statistical mechanics, astrophysics problems, fractional calculus, etc. and to make use of the expertise of Hans J. Haubold in astrophysics area also. It was decided to confine the discussion to H -function of one scalar variable only. Matrix variable cases and many variable cases are not discussed in detail, but an insight into these areas is given.

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When going from one variable to many variables, there is nothing called a unique bivariate or multivariate analogue of a given function. Whatever be the criteria used, there may be many different functions qualified to be bivariate or multivariate analogues of a given univariate function. Some of the bivariate and multivariate H-functions, currently in the literature, are also questioned by many authors.

Natasha is a businesswoman, and she is very dominant, Rody plans to come to her seeking her cooperation on a survey he is conducting... it is about a product being created which will rejuvenate and relax women when

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they apply it on their feet! ... , he gets far more than he could have ever imagined!!!

IMDC-SDSP conference offers an exceptional platform and opportunity for practitioners, industry experts, technocrats, academics, information scientists, innovators, postgraduate students, and research scholars to share their experiences for the advancement of knowledge and obtain critical feedback on their work. The timing of this conference coincides with the rise of Big Data, Artificial Intelligence powered applications, Cognitive Communications, Green Energy, Adaptive Control and Mobile Robotics towards maintaining the

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Sustainable Development and Smart Planning and management of the future technologies. It is aimed at the knowledge generated from the integration of the different data sources related to a number of active real-time applications in supporting the smart planning and enhance and sustain a healthy environment. The conference also covers the rise of the digital health, well-being, home care, and patient-centred era for the benefit of patients and healthcare providers; in addition to how supporting the development of a platform of smart Dynamic Health Systems and self-management. A comparison between Russian

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and Polish texts of travels to the Orient in the Nineteenth-Century. The book gathers papers addressing state-of-the-art research in all areas of Information and Communication Technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the third International Conference on Information and Communication Technology for Intelligent Systems, which was held on April 6–7, 2018, in Ahmedabad, India. Divided into two volumes, the book discusses the fundamentals of various data analytics and algorithms, making it a valuable resource for researchers ' future

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studies.

The book features selected high-quality papers presented at the International Conference on Computing, Power and Communication Technologies 2019 (GUCON 2019), organized by Galgotias University, India, in September 2019. Divided into three sections, the book discusses various topics in the fields of power electronics and control engineering, power and energy systems, and machines and renewable energy. This interesting compilation is a valuable resource for researchers, engineers and students.

[The H-Function](#)

[Instruments, Products, and Case](#)

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[Studies](#)

[Integration Strategies, Patterns,
and Best Practices](#)

[InECCE2019](#)

[Innovations in Electrical and
Electronics Engineering](#)

[Innovations in Information and
Communication Technologies
\(IICT-2020\)](#)

[Null Pronouns](#)

[Proceedings of First International
Conference on Computing,
Communications, and Cyber-
Security \(IC4S 2019\)](#)

[Techno-Societal 2020](#)

[Tourist Destination Management](#)

[Inventive Computation
Technologies](#)

[Proceedings of the 4th ICIEEE 2019](#)

[Theory and prevention of](#)

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[technology-enabled offenses](#) [Soft Computing and Fractal Theory](#) [for Intelligent Manufacturing](#)

This book gathers outstanding research papers presented at the International Joint Conference on Computational Intelligence (IJCCI 2019), held at the University of Liberal Arts Bangladesh (ULAB), Dhaka, on 25–26 October 2019 and jointly organized by the University of Liberal Arts Bangladesh (ULAB), Bangladesh; Jahangirnagar University (JU), Bangladesh; and South Asian University (SAU), India. These proceedings present novel contributions in the areas of computational intelligence, and offer valuable reference material for advanced research. The topics covered include collective intelligence, soft computing, optimization, cloud computing, machine learning, intelligent software, robotics, data science, data security, big data

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analytics, and signal and natural language processing.

This proceedings volume covers the proceedings of ERCICA 2015. ERCICA 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 contents of this book cover emerging research areas in fields of Computing, Information, Communication and Applications. This will prove useful to both researchers and practicing engineers.

This book features selected high-quality papers from the International Conference on Innovation in Electrical Power Engineering, Communication, and Computing Technology (IEPCCT 2019), held at Siksha 'O' Anusandhan (Deemed to

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be University), Bhubaneswar, India, on 13–14 December 2019. Presenting innovations in power, communication, and computing, it covers topics such as mini, micro, smart and future power grids; power system economics; energy storage systems; intelligent control; power converters; improving power quality; signal processing; sensors and actuators; image/video processing; high-performance data mining algorithms; advances in deep learning; and optimization methods. This book is a compilation of peer-reviewed papers presented at the International Conference on Machine Intelligence and Data Science Applications, organized by the School of Computer Science, University of Petroleum & Energy Studies, Dehradun, on September 4 and 5, 2020. The book starts by addressing the algorithmic aspect of machine intelligence which includes the

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framework and optimization of various states of algorithms. Variety of papers related to wide applications in various fields like image processing, natural language processing, computer vision, sentiment analysis, and speech and gesture analysis have been included with upfront details. The book concludes with interdisciplinary applications like legal, health care, smart society, cyber physical system and smart agriculture. The book is a good reference for computer science engineers, lecturers/researchers in machine intelligence discipline and engineering graduates.

The Handbook of Formative Assessment in the Disciplines meaningfully addresses current developments in the field, offering a unique and timely focus on domain dependency. Building from an updated definition of formative assessment, the book covers the integration of

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measurement principles into practice; the operationalization of formative assessment within specific domains, beyond generic strategies; evolving research directions including student involvement and self-regulation; and new approaches to the challenges of incorporating formative assessment training into pre-service and in-service educator training. As supporters of large-scale testing programs increasingly consider the potential of formative assessments to improve teaching and learning, this handbook advances the subject through novel frameworks, intersections of theory, research, and practice, and attention to discernible disciplines. Written for instructors, graduate students, researchers, and policymakers, each chapter provides expert perspectives on the procedures and evaluations that enable teachers to adapt teaching and learning in-process toward

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student achievement.

This volume presents selected papers from the 3rd International Conference on Optical and Wireless Technologies, conducted from 16th to 17th March, 2019. It focuses on extending the limits of currently used systems encompassing optical and wireless domains, and explores the latest developments in applications like photonics, high speed communication systems and networks, visible light communication, nano-photonics, wireless, and MIMO systems. The proceedings contain high quality scholarly articles, giving insight into the analytical, experimental, and developmental aspects of systems, techniques, and devices in these spheres. This volume will prove useful to researchers and professionals alike.

With the intriguing development of technologies in several industries, along

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with the advent of ubiquitous computational resources, there are now ample opportunities to develop innovative computational technologies in order to solve a wide range of issues concerning uncertainty, imprecision, and vagueness in various real-life problems. The challenge of blending modern computational techniques with traditional computing methods has inspired researchers and academics alike to focus on developing innovative computational techniques. In the near future, computational techniques may provide vital solutions by effectively using evolving technologies such as computer vision, natural language processing, deep learning, machine learning, scientific computing, and computational vision. A vast number of intelligent computational algorithms are emerging, along with increasing computational power, which has

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significantly expanded the potential for developing intelligent applications. These proceedings of the International Conference on Inventive Computation Technologies [ICICT 2019] cover innovative computing applications in the areas of data mining, big data processing, information management, and security. Most natural languages display an inventory of pronominal elements that obligatorily or optionally remain phonologically null in a few, in many or even in all syntactic surroundings. The authors of the papers compiled in this book analyse such null pronouns in a synchronic and diachronic way and recover the specific morphological and syntactic prerequisites for their origin and insertion.

[Theory and Applications](#)

[FarEast?on - Materials and Construction](#)

[International Conference on Mobile](#)

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[Computing and Sustainable Informatics
Third International Conference, ICAICR
2019, Shimla, India, June 15-16, 2019,](#)

[Revised Selected Papers](#)

[Soft Computing and Signal Processing
Proceedings of International Joint
Conference on Computational Intelligence
IJCCI 2019](#)

[Proceedings of 3rd ICMETE 2019](#)

[Cybercrime in Progress](#)

[A Ruse Caught](#)

[ERCICA 2015](#)

[Proceedings of 2nd International
Conference on Communication,](#)

[Computing and Networking](#)

[Emerging Research in Computing,
Information, Communication and](#)

[Applications](#)

[ICMCSI 2020](#)

Java EE and .NET

Interoperability addresses

issues encountered during the

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integration process, such as a diverse technology set, incompatible APIs, and disparate environment maintenance. The experienced authors outline strategies, approaches, and best practices, including messaging, Web services, and integration-related frameworks and patterns. The book also introduces readers to Service Oriented Architecture (SOA), the building block for scalable and reliable enterprise integration solutions. This indispensable book provides the Java EE and .NET developer community with multiple strategies to integrate between Java EE and .NET platforms that save developers

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time and effort. Applying proven interoperability solutions significantly reduces the application development cycle. Coverage includes · Effective Java EE—.NET integration strategies and best practices · Detailed enterprise coverage, as well as standalone Java EE component integration with .NET · SOA as a building block for Java EE—.NET interoperability · Interoperability security issues and risk mitigation · Managing reliability, availability, and scalability for Web services built on Java EE and .NET · The latest interoperability standards and specifications, including Web SSO MEX and WS-Management ·

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Current interoperability technologies, such as Windows Communication Foundation, WSE 3.0, JAX-WS, and Enterprise Service Bus

This book highlights a collection of high-quality peer-reviewed research papers presented at the Sixth International Conference on Information System Design and Intelligent Applications (INDIA 2019), held at Lendi Institute of Engineering & Technology, Vizianagaram, Andhra Pradesh, India, from 1 to 2 November 2019. It covers a wide range of topics in computer science and information technology, from wireless networks, social networks,

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wireless sensor networks, information and network security, to web security, Internet of Things, bioinformatics, geoinformatics and computer networks. We describe in this book, new methods for intelligent manufacturing using soft computing techniques and fractal theory. Soft Computing (SC) consists of several computing paradigms, including fuzzy logic, neural networks, and genetic algorithms, which can be used to produce powerful hybrid intelligent systems. Fractal theory provides us with the mathematical tools to understand the geometrical

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complexity of natural objects and can be used for identification and modeling purposes. Combining SC techniques with fractal theory, we can take advantage of the "intelligence" provided by the computer methods and also take advantage of the descriptive power of the fractal mathematical tools. Industrial manufacturing systems can be considered as non-linear dynamical systems, and as a consequence can have highly complex dynamic behaviors. For this reason, the need for computational intelligence in these manufacturing systems has now been well recognized.

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We consider in this book the concept of "intelligent manufacturing" as the application of soft computing techniques and fractal theory for achieving the goals of manufacturing, which are production planning and control, monitoring and diagnosis of faults, and automated quality control. As a prelude, we provide a brief overview of the existing methodologies in Soft Computing. We then describe our own approach in dealing with the problems in achieving intelligent manufacturing. Our particular point of view is that to really achieve intelligent manufacturing in real-world

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applications we need to use SC techniques and fractal theory. This book provides a wide-ranging overview of the current state of tourist destination management and presents important recent research in the field. Contemporary theoretical and methodological approaches to management and marketing are discussed, and innovative practices with respect to both urban and rural destinations are described with the aid of many interesting case studies from across Europe and beyond. In addition, the volume addresses key issues such as governance, cooperation, the use of social media, and sustainability. A

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variety of influences on tourism development are examined, and efficient strategies for making destinations distinct are explored. The book will be a welcome addition and update to the existing literature and will be of interest to academics and practitioners alike.

Sustainability and mobile computing embraces a wide range of Information and Communication Technologies [ICT] in recent times. This book focuses more on the recent research and development works in almost all the facets of sustainable, ubiquitous computing and communication paradigm. The recent research

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efforts on this evolving paradigm help to advance the technologies for next-generation, where socio-economic growth and sustainability poses significant challenges to the computing and communication infrastructures. The main purpose of this book is to promote the technical advances and impacts of sustainability and mobile computing to the informatics research. The key strands of this book include green computing, predictive models, mobility, data analytics, mobile computing, optimization, Quality of Service [QoS], new communicating and computing frameworks, human

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computer interaction, Artificial Intelligence [AI], communication networks, risk management, Ubiquitous computing, robotics, smart city and applications. The book has also addressed myriad of sustainability challenges in various computing and information processing infrastructures.

This edited book is comprised of original research that focuses on technological advancements for effective teaching with an emphasis on learning outcomes, ICT trends in higher education, sustainable developments and digital ecosystem in education, management and industries. The contents of the book are

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classified as; (i) Emerging ICT Trends in Education, Management and Innovations (ii) Digital Technologies for advancements in education, management and IT (iii) Emerging Technologies for Industries and Education, and (iv) ICT Technologies for Intelligent Applications. The book represents a useful tool for academics, researchers, industry professionals and policymakers to share and learn about the latest teaching and learning practices supported by ICT. It also covers innovative concepts applied in education, management and industries using ICT tools.

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The emergence of the World Wide Web, smartphones, and computers has transformed the world and enabled individuals to engage in crimes in a multitude of new ways. Criminological scholarship on these issues has increased dramatically over the last decade, as have studies on ways to prevent and police these offenses. This book is one of the first texts to provide a comprehensive review of research regarding cybercrime, policing and enforcing these offenses, and the prevention of various offenses as global change and technology adoption increases the risk of victimization around the world.

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Drawing on a wide range of literature, Holt and Bossler offer an extensive synthesis of numerous contemporary topics such as theories used to account for cybercrime, policing in domestic and transnational contexts, cybercrime victimization and issues in cybercrime prevention. The findings provide a roadmap for future research in cybercrime, policing, and technology, and discuss key controversies in the existing research literature in a way that is otherwise absent from textbooks and general cybercrime readers. This book is an invaluable resource for academics, practitioners, and

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students interested in understanding the state of the art in social science research. It will be of particular interest to scholars and students interested in cybercrime, cyber-deviance, victimization, policing, criminological theory, and technology in general.

This book presents innovative ideas, cutting-edge findings, and novel techniques, methods, and applications in a broad range of cybersecurity and cyberthreat intelligence areas. As our society becomes smarter, there is a corresponding need to secure our cyberfuture. The book describes approaches and findings that are of interest to

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business professionals and governments seeking to secure our data and underpin infrastructures, as well as to individual users.

[Network Games](#)

[Information and Communication](#)

[Technology for Intelligent](#)

[Systems](#)

[Java EE and .NET](#)

[Interoperability](#)

[Handbook of Formative](#)

[Assessment in the Disciplines](#)

[Guide to Computer Network](#)

[Security](#)

[Proceedings of GUCON 2019](#)

[The Historical Encyclopedia of](#)

[Good Looks, Beauty, and](#)

[Grooming](#)

[Proceedings of International](#)

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[Conference on Machine
Intelligence and Data Science
Applications
Advanced Informatics for
Computing Research
International Conference on
Intelligent Data Communication
Technologies and Internet of
Things \(ICICI\) 2018
Proceedings of the 3rd
International Conference on
Advanced Technologies for
Societal Applications—Volume 1
Micro-Electronics and
Telecommunication Engineering
Proceedings of the 5th
International Conference on
Electrical, Control & Computer
Engineering, Kuantan, Pahang,
Malaysia, 29th July 2019](#)

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Optical and Wireless Technologies

Examines all aspects of beauty, body ornamentation, and grooming.

This book is a collection of selected research papers presented at the International Conference on Innovations in Electrical and Electronics Engineering (ICIEEE 2019), which was organized by the Guru Nanak Institutions, Ibrahimpatnam, Hyderabad, Telangana, India, on July 26–27, 2019. The book highlights the latest developments in electrical and electronics engineering, especially in the areas of power systems, power electronics, control systems, electrical machinery, and renewable energy. The solutions discussed here will encourage and inspire researchers, industry professionals, and policymakers to put these methods into practice.

This two-volume set (CCIS 1075 and CCIS

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1076) constitutes the refereed proceedings of the Third International Conference on Advanced Informatics for Computing Research, ICAICR 2019, held in Shimla, India, in June 2019. The 78 revised full papers presented were carefully reviewed and selected from 382 submissions. The papers are organized in topical sections on computing methodologies; hardware; information systems; networks; software and its engineering.

This book (vol. 1) presents the proceedings of the IUPESM World Congress on Biomedical Engineering and Medical Physics, a triennially organized joint meeting of medical physicists, biomedical engineers and adjoining health care professionals. Besides the purely scientific and technological topics, the 2018 Congress will also focus on other aspects of professional involvement in health care, such as education and

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training, accreditation and certification, health technology assessment and patient safety. The IUPESM meeting is an important forum for medical physicists and biomedical engineers in medicine and healthcare learn and share knowledge, and discuss the latest research outcomes and technological advancements as well as new ideas in both medical physics and biomedical engineering field.

Many different kinds of FPGAs exist, with different programming technologies, different architectures and different software. Field-Programmable Gate Array Technology describes the major FPGA architectures available today, covering the three programming technologies that are in use and the major architectures built on those programming technologies. The reader is introduced to concepts relevant to the entire field of FPGAs using popular devices as examples. Field-Programmable

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Gate Array Technology includes discussions of FPGA integrated circuit manufacturing, circuit design and logic design. It describes the way logic and interconnect are implemented in various kinds of FPGAs. It covers particular problems with design for FPGAs and future possibilities for new architectures and software. This book compares CAD for FPGAs with CAD for traditional gate arrays. It describes algorithms for placement, routing and optimization of FPGAs. Field-Programmable Gate Array Technology describes all aspects of FPGA design and development. For this reason, it covers a significant amount of material. Each section is clearly explained to readers who are assumed to have general technical expertise in digital design and design tools. Potential developers of FPGAs will benefit primarily from the FPGA architecture and software

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discussion. Electronics systems designers and ASIC users will find a background to different types of FPGAs and applications of their use.

Micro-Electronics and Telecommunication Engineering Proceedings of 3rd ICMETE 2019 Springer Nature

The International Scientific Conference “FarEastCon” took place on October 2-4, 2018 in Vladivostok, Russian Federation. This collection presents papers reflecting recent advances in the field of materials engineering and technologies for production and processing in the different areas of modern manufacturing.

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

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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.

[*Theory, Models, and Dynamics*](#)

[*Polish and Russian Nineteenth-century*](#)

[*Travel to the Orient*](#)

[*Communication Software and Networks*](#)

[*MIDAS 2020*](#)

[*Field-Programmable Gate Array*](#)

[*Technology*](#)

[*2021 INTERNATIONAL CONFERENCE*](#)

[*ON APPLICATIONS AND TECHNIQUES*](#)

[*IN CYBER*](#)

[*IMDC-SDSP 2020*](#)

[*Radio Frequency System Architecture and*](#)

[*Design*](#)

[*Proceedings of ICTIS 2018*](#)

[*Between East and West*](#)

[*Proceedings of International Conference*](#)

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[on ICRIHE - 2020, Delhi, India :](#)

[IICT-2020](#)

[Proceedings of INDIA 2019](#)

[June 3-8, 2018, Prague, Czech Republic](#)

[ICCCN 2018, NITTTR Chandigarh, India](#)

This timely textbook presents a comprehensive guide to the core topics in cybersecurity, covering issues of security that extend beyond traditional computer networks to the ubiquitous mobile communications and online social networks that have become part of our daily lives. In the context of our growing dependence on an ever-changing digital ecosystem, this book

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stresses the importance of security awareness, whether in our homes, our businesses, or our public spaces. This fully updated new edition features new material on the security issues raised by blockchain technology, and its use in logistics, digital ledgers, payments systems, and digital contracts. Topics and features: Explores the full range of security risks and vulnerabilities in all connected digital systems Inspires debate over future developments and improvements necessary to enhance the security of

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personal, public, and private enterprise systems
Raises thought-provoking questions regarding legislative, legal, social, technical, and ethical challenges, such as the tension between privacy and security
Describes the fundamentals of traditional computer network security, and common threats to security
Reviews the current landscape of tools, algorithms, and professional best practices in use to maintain security of digital systems
Discusses the security issues introduced by the

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latest generation of network technologies, including mobile systems, cloud computing, and blockchain Presents exercises of varying levels of difficulty at the end of each chapter, and concludes with a diverse selection of practical projects Offers supplementary material for students and instructors at an associated website, including slides, additional projects, and syllabus suggestions This important textbook/reference is an invaluable resource for students of computer

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science, engineering, and information management, as well as for practitioners working in data- and information-intensive industries.

Traditional network optimization focuses on a single control objective in a network populated by obedient users and limited dispersion of information. However, most of today's networks are large-scale with lack of access to centralized information, consist of users with diverse requirements, and are subject to dynamic changes. These factors

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naturally motivate a new distributed control paradigm, where the network infrastructure is kept simple and the network control functions are delegated to individual agents which make their decisions independently ("selfishly"). The interaction of multiple independent decision-makers necessitates the use of game theory, including economic notions related to markets and incentives. This monograph studies game theoretic models of resource allocation among selfish

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agents in networks. The first part of the monograph introduces fundamental game theoretic topics. Emphasis is given to the analysis of dynamics in game theoretic situations, which is crucial for design and control of networked systems. The second part of the monograph applies the game theoretic tools for the analysis of resource allocation in communication networks. We set up a general model of routing in wireline networks, emphasizing the congestion problems caused by delay and packet loss. In

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particular, we develop a systematic approach to characterizing the inefficiencies of network equilibria, and highlight the effect of autonomous service providers on network performance. We then turn to examining distributed power control in wireless networks. We show that the resulting Nash equilibria can be efficient if the degree of freedom given to end-users is properly designed. Table of Contents: Static Games and Solution Concepts / Game Theory Dynamics / Wireline Network Games /

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Wireless Network Games / Future Perspectives

The book provides insights from the 2nd International Conference on Communication, Computing and Networking organized by the Department of Computer Science and Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India on March 29-30, 2018. The book includes contributions in which researchers, engineers, and academicians as well as industrial professionals from around the globe

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presented their research findings and development activities in the field of Computing Technologies, Wireless Networks, Information Security, Image Processing and Data Science. The book provides opportunities for the readers to explore the literature, identify gaps in the existing works and propose new ideas for research.

This book features selected research papers presented at the First International Conference on Computing, Communications, and Cyber-Security (IC4S 2019),

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organized by Northwest Group of Institutions, Punjab, India, Southern Federal University, Russia, and IAC Educational Trust, India along with KEC, Ghaziabad and ITS, College Ghaziabad as an academic partner and held on 12-13 October 2019. It includes innovative work from researchers, leading innovators and professionals in the area of communication and network technologies, advanced computing technologies, data analytics and intelligent learning, the latest electrical and

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electronics trends, and security and privacy issues. 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

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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

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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. This book discusses data

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communication and computer networking, communication technologies and the applications of IoT (Internet of Things), big data, cloud computing and healthcare informatics. It explores, examines and critiques intelligent data communications and presents inventive methodologies in communication technologies and IoT. Aimed at researchers and academicians who need to understand the importance of data communication and advanced technologies in

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IoT, it offers different perspectives to help readers increase their knowledge and motivates them to conduct research in the area, highlighting various innovative ideas for future research.

This book presents selected papers from the 3rd International Conference on Micro-Electronics and Telecommunication Engineering, held at SRM Institute of Science and Technology, Ghaziabad, India, on 30-31 August 2019. It covers a wide variety of topics in micro-electronics and

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telecommunication engineering, including micro-electronic engineering, computational remote sensing, computer science and intelligent systems, signal and image processing, and information and communication technology.

The book includes research papers on current developments in the field of soft computing and signal processing, selected from papers presented at the International Conference on Soft Computing and Signal Processing (ICSCSP 2018).

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It features papers on current topics, such as soft sets, rough sets, fuzzy logic, neural networks, genetic algorithms and machine learning. It also discusses various aspects of these topics, like technologies, product implementation, and application issues.

[Proceedings of OWT 2019](#)
[Innovation in Electrical](#)
[Power Engineering,](#)
[Communication, and](#)
[Computing Technology](#)
[World Congress on Medical](#)
[Physics and Biomedical](#)
[Engineering 2018](#)
[Proceedings of the 1st](#)

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International Multi-Disciplinary Conference
Theme: Sustainable Development and Smart Planning, IMDC-SDSP 2020, Cyperspace, 28-30 June 202
Proceedings of IEPCCT 2019 For Appearance' Sake
Advances in Power and Control Engineering
Machine Learning and Cognitive Computing for Mobile Communications and Wireless Networks
Proceedings of ICADCML 2020
Advances in Distributed Computing and Machine Learning

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[Proceedings of ICSCSP 2018](#)