

Proceedings Of Iccicd 2017

This book features a collection of high-quality, peer-reviewed papers presented at the Third International Conference on Intelligent Computing and Communication (ICICC 2019) held at the School of Engineering, Dayananda Sagar University, Bengaluru, India, on 7 - 8 June 2019. Discussing advanced and multi-disciplinary research regarding the design of smart computing and informatics, it focuses on innovation paradigms in system knowledge, intelligence and sustainability that can be applied to provide practical solutions to a number of problems in society, the environment and industry. Further, the

book also addresses the deployment of emerging computational and knowledge transfer approaches, optimizing solutions in various disciplines of science, technology and healthcare.

In the history of mankind, three revolutions which impact the human life are the tool-making revolution, agricultural revolution and industrial revolution. They have transformed not only the economy and civilization but the overall development of the 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 Communication which are from the areas such as Communications and Wireless Ad Hoc & Sensor Networks, Speech & Natural Language Processing, including Signal, Image and Video Processing and Mobile broadband and Optical networks, which are the key to the ground-breaking inventions to intelligent communication technologies. Secondly, Intelligent Device is any type of equipment, instrument or machine that has its own computing capability. Contributions from the areas such as Embedded Systems, RFID, RF MEMS, VLSI Design & Electronic Devices, Analog and Mixed-Signal IC Design and Testing, MEMS and Microsystems, CMOS

MEMS, Solar Cells and Photonics, Nano Devices, Single Electron & Spintronics Devices, Space Electronics and Intelligent Robotics are covered in this volume.

Decision Making Applications in Modern Power Systems presents an enhanced decision-making framework for power systems. Designed as an introduction to enhanced electricity system analysis using decision-making tools, it provides an overview of the different elements, levels and actors involved within an integrated framework for decision-making in the power sector. In addition, it presents a state-of-play on current energy systems, strategies, alternatives, viewpoints and priorities in support of

decision-making in the electric power sector, including discussions of energy storage and smart grids. As a practical training guide on theoretical developments and the application of advanced methods for practical electrical energy engineering problems, this reference is ideal for use in establishing medium-term and long-term strategic plans for the electric power and energy sectors. Provides panoramic coverage of state-of-the-art energy systems, strategies and priorities in support of electrical power decision-making Introduces innovative research outcomes, programs, algorithms and approaches to address challenges in understanding, creating and managing complex

techno-socio-economic engineering systems Includes practical training on theoretical developments and the application of advanced methods for realistic electrical energy engineering problems

The book is a compilation of best papers presented at International Conference on Recent Advancement in Computer and Communication (ICRAC 2017) organized by IMPLab Research and Innovation Foundation, Bhopal, India. The book covers all aspects of computers and communication techniques including pervasive computing, distributed computing, cloud computing, sensor and adhoc network, image, text and speech processing, pattern recognition and pattern analysis, digital signal

processing, digital electronics, telecommunication technologies, robotics, VLSI technologies, embedded system, satellite communication, digital signal processing, and digital communication. The papers included are original research works of experts from industry, government centers and academic institutions; experienced in engineering, design and 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 telecommunication

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

Renewed interest in laser communication systems has sparked development of useful new analytic models.

This book discusses optical scintillation and its impact on system performance in free-space optical communication and laser radar applications, with a detailed look at propagation phenomena and the role of scintillation on system behavior. Intended for practicing engineers, scientists, and students.

Metaheuristics exhibit desirable properties like simplicity, easy parallelizability and ready

applicability to different types of optimization problems such as real parameter optimization, combinatorial optimization and mixed integer optimization. They are thus beginning to play a key role in different industrially important process engineering applications, among them the synthesis of heat and mass exchange equipment, synthesis of distillation columns and static and dynamic optimization of chemical and bioreactors. This book explains cutting-edge research techniques in related computational intelligence domains and their applications in real-world process engineering. It will be of interest to industrial practitioners and research academics.

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[**ICRAC 2017**](#)

[**Soft Computing Applications**](#)

[**Proceedings of the International Conference on Nano-electronics, Circuits & Communication Systems**](#)

[**9th International Workshop, IH 2007, Saint Malo, France, June 11-13, 2007, Revised Selected Papers**](#)

[**Proceedings of 3rd ICICC 2019, Bangalore**](#)

[**Proceedings of ICCD 2017**](#)

[**Proceedings of ESDA 2019**](#)

[**Select Proceedings of EPREC 2020**](#)

[**Proceedings of International Conference on Intelligent Computing, Information and Control Systems**](#)

[**Proceedings of ICCD 2014, Volume 2**](#)

Simulation, Interfacing and Projects Innovations in Smart Cities Applications Edition 3 Progress in Advanced Computing and Intelligent Engineering

The book presents high-quality research papers presented at the first international conference, ICICCD 2016, organised by the Department of Electronics, Instrumentation and Control Engineering of University of Petroleum and Energy Studies, Dehradun on 2nd and 3rd April, 2016. The book is broadly divided into three sections: Intelligent Communication, Intelligent Control and Intelligent Devices. The areas covered under

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these sections are wireless communication and radio technologies, optical communication, communication hardware evolution, machine-to-machine communication networks, routing techniques, network analytics, network applications and services, satellite and space communications, technologies for e-communication, wireless Ad-Hoc and sensor networks, communications and information security, signal processing for communications, communication software, microwave informatics, robotics and automation, optimization techniques and algorithms, intelligent transport,

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mechatronics system, guidance and navigation, algorithms, linear/non-linear control, home automation, sensors, smart cities, control systems, high performance computing, cognition control, adaptive control, distributed control, prediction models, hybrid control system, control applications, power system, manufacturing, agriculture cyber physical system, network control system, genetic control based, wearable devices, nano devices, MEMS, bio-inspired computing, embedded and real-time software, VLSI and embedded systems, FPGA, digital system and logic design, image and video

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processing, machine vision, medical imaging, and reconfigurable computing systems.

As computer systems evolve, the volume of data to be processed increases significantly, either as a consequence of the expanding amount of available information, or due to the possibility of performing highly complex operations that were not feasible in the past. Nevertheless, tasks that depend on the manipulation of large amounts of information are still performed at large computational cost, i.e., either the processing time will be large, or they will require intensive use of computer resources. In this scenario, the

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efficient use of available computational resources is paramount, and creates a demand for systems that can optimize the use of resources in relation to the amount of data to be processed. This problem becomes increasingly critical when the volume of information to be processed is variable, i.e., there is a seasonal variation of demand. Such demand variations are caused by a variety of factors, such as an unanticipated burst of client requests, a time-critical simulation, or high volumes of simultaneous video uploads, e.g. as a consequence of a public contest. In these

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cases, there are moments when the demand is very low (resources are almost idle) while, conversely, at other moments, the processing demand exceeds the resources capacity. Moreover, from an economical perspective, seasonal demands do not justify a massive investment in infrastructure, just to provide enough computing power for peak situations. In this light, the ability to build adaptive systems, capable of using on demand resources provided by Cloud Computing infrastructures is very attractive. The book focuses on the integration of intelligent communication systems, control

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systems, and devices related to all aspects of engineering and sciences. It contains high-quality research papers presented at the 2nd international conference, ICICCD 2017, organized by the Department of Electronics, Instrumentation and Control Engineering of University of Petroleum and Energy Studies, Dehradun on 15 and 16 April, 2017. The volume broadly covers recent advances of intelligent communication, intelligent control and intelligent devices. The work presented in this book is original research work, findings and practical development experiences of researchers, academicians, scientists and

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industrial practitioners.

This comprehensive reference text discusses concepts of intelligence communication and automation system in a single volume. The text discusses the role of artificial intelligence in communication engineering, the role of machine learning in communication systems, and applications of image and video processing in communication. It covers important topics including smart sensing systems, intelligent hardware design, low power system design using AI techniques, intelligent signal processing for biomedical applications, intelligent robotic systems,

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and network security applications. The text will be useful for senior undergraduate and graduate students in different areas including electrical engineering, and electronics and communications engineering. This book provides a single platform for beginners in systems engineering to start Arduino interface projects with MATLAB®. It covers the basics of the programming with Arduino and Arduino interfacing with MATLAB® (with and without the use of I/O packages) in 3 sections, respectively. Key features:

- introduces readers to Arduino IDE, Proteus simulation modeling, Arduino interfaces with

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display devices, sensor interfaces (both digital and analog), actuators, MATLAB® GUIs, digital read/write systems with I/O interfaces and automation systems. -organized layout for a reader friendly experience -provides detailed circuit diagrams -provides relevant simulation modeling instructions This is an ideal book for engineering students and system designers for learning the basic programming and simulation of Arduino and MATLAB® based real time project prototypes.

Production Technology is meant For The students of B.Tech in Mechanical, Production

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and Manufacturing Engineering. it deals with the fundamental concepts of Foundry, Forming and Welding Technologies. The book covers both theoretical and analytical concepts. The analytical concepts are introduced beginning from the fundamentals for easy comprehension. Several worked out examples, review and objective type questions are provided at the end of each chapter. More than 150 line sketches are included, which are self-explanatory and easy to reproduce in the examination. The second edition consists of revision and enrichment of contents in chapters: Fundamentals of metal casting,

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molding and casting processes and welding processes. A chapter new Foundry Mechanization is also Included.

This book focuses on soft computing and how it can be applied to solve real-world problems arising in various domains, ranging from medicine and healthcare, to supply chain management, image processing and cryptanalysis. It gathers high-quality papers presented at the International Conference on Soft Computing: Theories and Applications (SoCTA 2019), organized by the National Institute of Technology Patna, India. Offering valuable insights into soft

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computing for teachers and researchers alike, the book will inspire further research in this dynamic field.

[Proceeding of International Conference on Intelligent Communication, Control and Devices](#)

[Proceeding of NCCS 2018](#)

[Proceedings of the 2020 Computing Conference, Volume 3](#)

[Control Applications in Modern Power System](#)

[Proceedings of ICACIE 2020](#)

[Laser Beam Scintillation with Applications](#)

[Nanoelectronics, Circuits and Communication](#)

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Systems

Micro-Electronics and Telecommunication

Engineering

The Proceedings of the 4th International

Conference on Smart City Applications

Modelling Public Transport Passenger Flows in

the Era of Intelligent Transport Systems

COMBINATORICS AND GRAPH THEORY

Decision Making Applications in Modern Power

Systems

This book focuses on the core areas of computing and their applications in the real world. Presenting papers from the Computing Conference 2020 covers a diverse range of research areas, describing various detailed techniques that

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have been developed and implemented. The Computing Conference 2020, which provided a venue for academic and industry practitioners to share new ideas and development experiences, attracted a total of 514 submissions from pioneering academic researchers, scientists, industrial engineers and students from around the globe. Following a double-blind, peer-review process, 160 papers (including 15 poster papers) were selected to be included in these proceedings. Featuring state-of-the-art intelligent methods and techniques for solving real-world problems, the book is a valuable resource and will inspire further research and technological improvements in this important area. Text provides information about advanced OTFT (Organic thin film transistor) structures, their modeling and extraction of

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performance parameters, materials of individual layers, their molecular structures, basics of pi-conjugated semiconducting materials and their properties, OTFT charge transport phenomena and fabrication techniques. It includes applications of OTFTs such as single and dual gate OTFT based inverter circuits along with bootstrap techniques, SRAM cell designs based on different material and circuit configurations, light emitting diodes (LEDs). Besides this, application of dual gate OTFT in the logic gate, shift register, Flip-Flop, counter circuits will be included as well.

This volume comprises select papers from the International Conference on Nano-electronics, Circuits & Communication Systems(NCCS). The conference focused on the frontier issues and their applications in business, academia, industry,

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and other allied areas. This international conference aimed to bring together scientists, researchers, engineers from academia and industry. The book covers technological developments and current trends in key areas such as VLSI design, IC manufacturing, and applications such as communications, ICT, and hybrid electronics. The contents of this volume will prove useful to researchers, professionals, and students alike.

This volume comprises select papers from the International Conference on Microelectronics, Computing & Communication Systems(MCCS 2015). Electrical, Electronics, Computer, Communication and Information Technology and their applications in business, academic, industry and other allied areas. The main aim of this volume

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is to bring together content from international scientists, researchers, engineers from both academia and the industry. The contents of this volume will prove useful to researchers, professionals, and students alike.

People are increasingly becoming interested in game theory because it provides a way of elucidating the logical difficulty of a phenomenon and substantiates various alternative courses of decisions and actions. With contributions by experts from across the globe, the select papers in this compendium deal with applications of game theory in the context of R&D strategies of firms; investments in innovative projects; two-person stochastic games where each state has a skew symmetric payoff matrix; study of voting as a decision procedure by committees in firms; and game theory

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application in wireless communication problems and in the context of an interacting colony of bacteria. This handy volume encompasses advanced research in the field of game theory with novel application domains.

We are glad to present in this volume the proceedings of the ninth edition of Information Hiding (IH 2007). The conference was held in Saint Malo, the C- sairs town, France, during June 11–13, 2007. It was organized by a team of four Frenchpiratessupported by the valuablehelp of the conferenceorganizationcell of INRIA Rennes. Continuing the tradition of the previous editions, we tried to provide a balanced program covering the different aspects of information hiding. This being said, the selection of the program was a very challenging task. This year, 105 papers from 25

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countries were submitted. This was the highest number of submissions in IH history. We would like to take the opportunity to thank all the authors who submitted a paper to IH 2007 and thus contributed to consolidate the reputation of this conference. Each paper was refereed by at least three reviewers. Since this event was run with a single track, it implied that only 25 papers were accepted for presentation. This unusually low acceptance rate will further promote Information Hiding as the top forum of our community. Although watermarking and steganography still receive most of the interest, new topics emerged during the conference such as the use of Tardos codes for fingerprinting and digital forensics. We would like to thank all the members of the Program Committee and all the external reviewers for the

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enormous effort that they put into the reviewing process. This book offers a collection of high-quality, peer-reviewed research papers presented at the International Conference on Intelligent Computing, Communication and Devices (ICCD 2017), discussing all dimensions of intelligent sciences – intelligent computing, intelligent communication, and intelligent devices. Intelligent computing addresses areas such as intelligent and distributed computing, intelligent grid and cloud computing, internet of things, soft computing and engineering applications, data mining and knowledge discovery, semantic and web technology, hybrid systems, agent computing, bioinformatics, and recommendation systems. Intelligent communication is concerned with communication and network technologies, such as mobile

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broadband and all optical networks that are the key to groundbreaking inventions of intelligent communication technologies. It includes communication hardware, software and networked intelligence, mobile technologies, machine-to-machine communication networks, speech and natural language processing, routing techniques and network analytics, wireless ad hoc and sensor networks, communications and information security, signal, image and video processing, network management, and traffic engineering. Lastly, intelligent devices are any equipment, instruments, or machines that have their own computing capability. As computing technology becomes more advanced and less expensive, it can be incorporated an increasing number of devices of all kinds. This area covers such as

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embedded systems, radiofrequency identification (RFID), radiofrequency microelectromechanical system (RF MEMS), very-large-scale integration (VLSI) design and electronic devices, analog and mixed-signal integrated circuit (IC) design and testing, microelectromechanical system (MEMS) and microsystems, solar cells and photonics, nanodevices, single electron and spintronics devices, space electronics, and intelligent robotics.

[Proceedings of the International Conference on Microelectronics, Computing & Communication Systems](#)

[Proceedings of ICICCD 2018](#)

[Proceedings of the 2020 Computing Conference, Volume 2 Intelligent Computing, Communication and Devices ICICCS 2020](#)

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[Video Processing in the Cloud](#)

[Embedded System Based on Atmega Microcontroller](#)

[Proceedings of the 8th International Workshop Soft](#)

[Computing Applications \(SOFA 2018\), Vol. II](#)

[Proceedings of SoCTA 2019](#)

[Production Technology](#)

[International Conference on Innovative Computing and](#)

[Communications](#)

[Recent Developments in Intelligent Computing,](#)

[Communication and Devices](#)

[Energy Systems, Drives and Automations](#)

Arduino is an open-source electronics platform based on easy-to-use hardware and software

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while LabVIEW is a graphical programming telling how to connect functions and work with a variety of datatypes when constructing applications. This book will help beginners to get started with Arduino-based embedded systems including essential know-how of the programming and interfacing of the devices. Book includes programming and simulation of Arduino-based projects and interfacing with LabVIEW, based on practical case studies. The book comprises of total twenty five chapters with description, working model of LabVIEW

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and programming with Arduino IDE.

The book focuses on soft computing and its applications to solve real-world problems in different domains, ranging from medicine and health care, to supply chain management, image processing and cryptanalysis. It includes high-quality papers presented at the International Conference on Soft Computing: Theories and Applications (SoCTA 2018), organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India. Offering significant insights into soft

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computing for teachers and researchers alike, the book inspires more researchers to work in the field of soft computing.

This book shows how transit assignment models can be used to describe and predict the patterns of network patronage in public transport systems. It provides a fundamental technical tool that can be employed in the process of designing, implementing and evaluating measures and/or policies to improve the current state of transport systems within given financial, technical and

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social constraints. The book offers a unique methodological contribution to the field of transit assignment because, moving beyond “traditional” models, it describes more evolved variants that can reproduce: □ intermodal networks with high- and low-frequency services; □ realistic behavioural hypotheses underpinning route choice; □ time dependency in frequency-based models; and □ assumptions about the knowledge that users have of network conditions that are consistent with the present and future level of

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information that intelligent transport systems (ITS) can provide. The book also considers the practical perspective of practitioners and public transport operators who need to model and manage transit systems; for example, the role of ITS is explained with regard to their potential in data collection for modelling purposes and validation techniques, as well as with regard to the additional data on network patronage and passengers' preferences that influences the network-management and control strategies implemented. In addition, it

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explains how the different aspects of network operations can be incorporated in traditional models and identifies the advantages and disadvantages of doing so. Lastly, the book provides practical information on state-of-the-art implementations of the different models and the commercial packages that are currently available for transit modelling.

Showcasing original work done under the aegis of the COST Action TU1004 (TransITS), the book provides a broad readership, ranging from Master and PhD students to researchers

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and from policy makers to practitioners, with a comprehensive tool for understanding transit assignment models.

This book includes high-quality research papers presented at the Third International Conference on Innovative Computing and Communication (ICICC 2020), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on 21-23 February, 2020. Introducing the innovative works of scientists, professors, research scholars, students and industrial

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experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

This book presents the proceedings of the 8th International Workshop on Soft Computing Applications, SOFA 2018, held on 13–15 September 2018 in Arad, Romania. The workshop was organized by Aurel Vlaicu University of Arad, in conjunction with the

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Institute of Computer Science, Iasi Branch of the Romanian Academy, IEEE Romanian Section, Romanian Society of Control Engineering and Technical Informatics – Arad Section, General Association of Engineers in Romania – Arad Section and BTM Resources Arad. The papers included in these proceedings, published post-conference, cover the research including Knowledge-Based Technologies for Web Applications, Cloud Computing, Security Algorithms and Computer Networks, Business Process Management,

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Computational Intelligence in Education and Modelling and Applications in Textiles and many other areas related to the Soft Computing. The book is directed to professors, researchers, and graduate students in area of soft computing techniques and applications. This book features selected papers presented at the Fourth International Conference on Nanoelectronics, Circuits and Communication Systems (NCCS 2018). Covering topics such as MEMS and nanoelectronics, wireless communications, optical communications,

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instrumentation, signal processing, the Internet of Things, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications in mines, it offers a valuable resource for young scholars, researchers, and academics alike.

This book presents select proceedings of the Electric Power and Renewable Energy

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Conference 2020 (EPREC 2020). This book provides rigorous discussions, case studies, and recent developments in emerging areas of control systems, especially, load frequency control, wide-area monitoring, control & instrumentation, optimization, intelligent control, energy management system, SCADA systems, etc. The contents of this book will be useful to researchers and professionals interested in control theory and its applications to power grids and systems. The book can also be used by policy makers and

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power engineers involved in power generation and distribution.

[Proceedings of SoCTA 2018](#)

[Proceedings of ICICCD 2017](#)

[Applications of Game Theory](#)

[ICICCD 2016](#)

[Organic Thin-Film Transistor Applications](#)

[Intelligent Computing](#)

[Interfacing, Simulation, and LabVIEW GUI](#)

[Materials to Circuits](#)

[Proceedings of the 8th International Workshop](#)

[Soft Computing Applications \(SOFA 2018\), Vol.](#)

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I

[Proceedings of International Conference on Recent Advancement on Computer and Communication](#)

[Arduino meets MATLAB: Interfacing, Programs and Simulink](#)

[Intelligent Communication and Automation Systems](#)

[Soft Computing: Theories and Applications](#)

The book focuses on the integration of intelligent communication systems, control systems, and devices related to all aspects of engineering and

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sciences. It includes high-quality research papers from the 3rd international conference, ICICCD 2018, organized by the Department of Electronics, Instrumentation and Control Engineering at the University of Petroleum and Energy Studies, Dehradun on 21–22 December 2018. Covering a range of recent advances in intelligent communication, intelligent control and intelligent devices., the book presents original research and findings as well as researchers' and industrial practitioners' practical development experiences of. This book gathers selected research papers

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presented at the Second International Conference on Energy Systems, Drives and Automations (ESDA 2019), held in Kolkata on 28–29 December 2019. It covers a broad range of topics in the fields of renewable energy, power management, drive systems for electrical machines and automation. Also discussing a variety of related tools and techniques, the book offers a valuable resource for researchers, professionals and students in electrical and mechanical engineering disciplines.

Combinatorics and Graph Theory is designed as a textbook for undergraduate students of computer

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science and engineering and postgraduate students of computer applications. The book seeks to introduce students to the mathematical concepts needed to develop abstract thinking and problem solving—important prerequisites for the study of computer science. The book provides an exhaustive coverage of various concepts and remarkable introduction of several topics of combinatorics and graph theory. The book presents an informative exposure for beginners and acts as a reference for advanced students. It highlights comprehensive and rigorous views of combinatorics and graphs. The text

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shows simplicity and step-by-step concepts throughout and is profusely illustrated with diagrams. The real-world applications corresponding to the topics are appropriately highlighted. The chapters have also been interspersed throughout with numerous interesting and instructional notes. Written in a lucid style, the book helps students apply the mathematical tools to computer-related concepts and consists of around 600 worked-out examples which motivate students as a self-learning mode. KEY FEATURES Contains various exercises with their answers or hints. Lays emphasis on the applicability

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of mathematical structures to computer science. Includes competitive examinations' questions asked in GATE, NET, SET, etc

This book highlights original research and recent advances in various fields related to smart cities and their applications. It gathers papers presented at the Fourth International Conference on Smart City Applications (SCA19), held on October 2–4, 2019, in Casablanca, Morocco. Bringing together contributions by prominent researchers from around the globe, the book offers an invaluable instructional and research tool for courses on computer science,

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electrical engineering, and urban sciences. It is also an excellent reference guide for professionals, researchers, and academics in the field of smart cities. This book covers topics including:

- Smart Citizenship
- Smart Education
- Digital Business and Smart Governance
- Smart Health Care
- New Generation of Networks and Systems for Smart Cities
- Smart Grids and Electrical Engineering
- Smart Mobility
- Smart Security
- Sustainable Building
- Sustainable Environment

[Arduino-Based Embedded Systems](#)

[Recent Trends In Applied Systems Research 1995](#)

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Applications of Metaheuristics in Process
Engineering*](#)