

Computer Graphics By Rajesh Maurya

Proceedings of the International Congress on Information and Communication Technology/ICT for Competitive Strategies Thermophiles and Thermozyms Proceedings of 3rd International Conference on Advanced Computing, Networking and Informatics Innovation in Electrical Power Engineering, Communication, and Computing Technology Tunnel Field-effect Transistors (TFET) The Last Ship The E-Primer Ionospheric Effects of Solar Flares Intelligent Systems Technologies and Applications 2016 Soft Computing: Theories and Applications COMPUTER GRAPHICS WITH VIRTUAL REALITY SYSTEMS Mathematical Elements for Computer Graphics Advances in Computer and Computational Sciences Nanobiotechnology COMPUTER GRAPHICS (With CD) Smart Innovations in Communication and Computational Sciences Intelligent Computing and Information and Communication Biologically Inspired Techniques in Many-Criteria Decision Making Intelligent Computing Techniques for Smart Energy Systems Networking Communication and Data Knowledge Engineering Proceedings of the 1st International Conference on Sustainable Waste Management through Design Radiation Effects in Polymeric Materials Procedural Elements for Computer Graphics Computer Networks and Information Technologies Technologies for Sustainable Development Super 30 2018 IEEMA Engineer Infinite Conference (eTechNxT) Advances in Signal Processing and Intelligent Recognition Systems Proceedings of

the International Conference on Data Engineering and
Communication TechnologyPlan, Activity, and Intent
RecognitionIndia and China in AsiaHarmony Search
and Nature Inspired Optimization AlgorithmsComputer-
Aided Developments: Electronics and
CommunicationSustainable Manufacturing for
Industry 4.0Security in Computing and
CommunicationsIonospheric Precursors of
EarthquakesNanoelectronics, Circuits and
Communication SystemsStudies in Sampling
Techniques and Time Series AnalysisSYSTEM
PROGRAMMING

Proceedings of the International Congress on Information and Communication Technology

This volume contains a selection of papers presented at the 7th Nirma University International Conference on Engineering 'NUICONE 2019'. This conference followed the successful organization of four national conferences and six international conferences in previous years. The main theme of the conference was "Technologies for Sustainable Development", which is in line with the "SUSTAINABLE DEVELOPMENT GOAL" established by the United Nations. The conference was organized with many interdisciplinary technical themes encompassing a broad range of disciplines and enabling researchers, academicians and practitioners to choose between ideas and themes. Besides, NUICONE-2019 has also presented an exciting new set of events to engage

practicing engineers, technologists and technopreneurs from industry through special knowledge sharing sessions involving applied technical papers based on case-study applications, white-papers, panel discussions, innovations and technology products. This proceedings will definitely provide a platform to proliferate new findings among researchers. Advances in Transportation Engineering Emerging Trends in Water Resources and Environmental Engineering Construction Technology and Management Concrete and Structural Engineering Futuristic Power System Control of Power Electronics Converters, Drives and E-mobility Advanced Electrical Machines and Smart Apparatus Chemical Process Development and Design Technologies and Green Environment Sustainable Manufacturing Processes Design and Analysis of Machine and Mechanism Energy Conservation and Management Advances in Networking Technologies Machine Intelligence / Computational Intelligence Autonomic Computing Control and Automation Electronic Communications Electronics Circuits and System Design Signal Processing

ICT for Competitive Strategies

This book constitutes the refereed proceedings of the 4th International Symposium on Advances in Signal Processing and Intelligent Recognition Systems, SIRS 2018, held in Bangalore, India, in September 2018. The 28 revised full papers and 11 revised short papers presented were carefully reviewed and selected from 92 submissions. The papers cover wide

research fields including information retrieval, human-computer interaction (HCI), information extraction, speech recognition.

Thermophiles and Thermozyemes

Fourth International Conference on Information and Communication Technology for Competitive Strategies targets state-of-the-art as well as emerging topics pertaining to information and communication technologies (ICTs) and effective strategies for its implementation for engineering and intelligent applications.

Proceedings of 3rd International Conference on Advanced Computing, Networking and Informatics

Research into Tunneling Field Effect Transistors (TFETs) has developed significantly in recent times, indicating their significance in low power integrated circuits. This book describes the qualitative and quantitative fundamental concepts of TFET functioning, the essential components of the problem of modelling the TFET, and outlines the most commonly used mathematical approaches for the same in a lucid language. Divided into eight chapters, the topics covered include: Quantum Mechanics, Basics of Tunneling, The Tunnel FET, Drain current modelling of Tunnel FET: The task and its challenges, Modeling the Surface Potential in TFETs, Modelling the Drain Current, and Device simulation using Technology Computer Aided Design (TCAD). The

information is well organized, describing different phenomena in the TFETs using simple and logical explanations. Key features: * Enables readers to understand the basic concepts of TFET functioning and modelling in order to read, understand, and critically analyse current research on the topic with ease. * Includes state-of-the-art work on TFETs, attempting to cover all the recent research articles published on the subject. * Discusses the basic physics behind tunneling, as well as the device physics of the TFETs. * Provides detailed discussion on device simulations along with device physics so as to enable researchers to carry forward their study on TFETs. Primarily targeted at new and practicing researchers and post graduate students, the book would particularly be useful for researchers who are working in the area of compact and analytical modelling of semiconductor devices.

Innovation in Electrical Power Engineering, Communication, and Computing Technology

This text offers complete coverage of computer graphics. As a textbook, it can be used effectively in senior-level computer graphics courses or in first year graduate-level courses. It features an emphasis on rendering and in-depth coverage of all classical computer graphics algorithms. Procedural Elements of Computer Graphics also contains more than 90 worked examples, and is suitable for use by professional programmers, engineers, and scientists.

Tunnel Field-effect Transistors (TFET)

This book analyses the structure of the India–China relationship and the two prominent powers’ positions with and against each other, bilaterally and globally, in a complex Asian environment and beyond. India and China’s perceptions of one another are evaluated to reveal how the order of Asia is influenced by engaging in different power equations that affect equilibrium and disequilibrium. Contributors address three critical perspectives of India and China in Asia which are increasingly shaping the future of Asia and impacting the Indo-Pacific power balance. First, they examine the mutual perceptions of India and China as an integral part of Asia’s evolving politics and the impact of this on the emerging Asian order and disorder. Second, they assess how classical and contemporary characteristics of the India–China boundary and beyond-border disputes or conflicts are shaping Asia’s political trajectory and leaving an impact on the Indo-Pacific region. Additionally, contributors observe the prevailing power equations in which India and China are currently engaged to reveal that they are not only geographically limited to the Asian region. Instead, having a strong global or intercontinental character attached to it, the India–China relationship involves extra-territorial powers and extra-territorial regions. This book will be of interest to academics, students and policymakers working on Asian studies, international relations, area studies, emerging powers studies, strategic studies, security studies and conflict studies.

The Last Ship

Market_Desc: Mumbai UniversityBE (Sem V), (Course: Computer Graphics with Virtual Reality Systems) B.Sc. (2nd year), (Course: Computer Science)UPTUTCS-501 (Course: Computer Graphics), JNTU3rd year, Sem 1 (Course: Computer Graphics)Anna UniversityCourse Code: CS1354 (Course: Graphics and Multimedia)VTUCourse Code: 06CS65, 06IS665 (Course: Computer Graphics and Visualization)

Special Features: · Presents well-organized topics from elementary display systems to the most advanced animation.· Explains the topics with their theoretical, mathematical and programming perspectives.· Discusses topics such as scan conversion, 2D and 3D transformation, viewing and clipping, curve design and surface generation, and color models in great details. · Includes excellent pedagogy:ü 254 neatly-drawn illustrations and figuresü 44 solved examplesü 218 review questionsü 55 MCQsü 20 sample programs in C/C++ (on CD)ü 52 programming exercises (on CD)· Accompanying CD containsü 20 sample programs in C/C++ (on CD)ü 52 programming exercises (on CD)ü List of Abbreviationsü Bibliography

About The Book:
Computer Graphics is a comprehensive book for undergraduate students of computer science and information technology. The book is also useful to students, professionals and practitioners interested in object design, transformation, visualization, image analysis and modeling of real world. The topics in the book have been supplemented with adequate solved examples. Review questions and MCQs presented at

the end of each chapter would help students sharpen their concepts. Topics on animation have been included along with the core graphics topics that are very relevant in modern visualization and animation industry. The companion CD contains Sample Programs in C/C++ to better understand the topic and Programming Exercises for skill assessment.

The E-Primer

Ionospheric Effects of Solar Flares

E-Prime is the leading software suite by Psychology Software Tools for designing and running psychology lab experiments. The E-Primer acts as a guide to this tool, providing all the necessary knowledge to make E-Prime accessible to everyone. You can learn the tools of psychological science by following The E-Primer through a series of entertaining, step-by-step instructions that recreate classic experiments. The updated E-Primer expands its proven combination of simple explanations, interesting tutorials and fun exercises, and quickly enables even novice students to create their dream experiment. Features: * Learn the basic and advanced features of E-Studio's flexible user interface. * 15 step-by-step tutorials that let you replicate classic experiments from all Psychology fields. * Learn to write custom code in E-Basic without having any previous experience in programming. * Second edition completely revised for E-Prime 3. * Based on 10+ years of teaching E-Prime to undergraduates, postgraduates, and colleagues. *

Used by Psychology Software Tools to train their own staff.

Intelligent Systems Technologies and Applications 2016

The book provides insights into International Conference on Smart Innovations in Communications and Computational Sciences (ICSICCS 2017) held at North West Group of Institutions, Punjab, India. It presents new advances and research results in the fields of computer and communication written by leading researchers, engineers and scientists in the domain of interest from around the world. The book includes research work in all the areas of smart innovation, systems and technologies, embedded knowledge and intelligence, innovation and sustainability, advance computing, networking and informatics. It also focuses on the knowledge-transfer methodologies and innovation strategies employed to make this happen effectively. The combination of intelligent systems tools and a broad range of applications introduce a need for a synergy of disciplines from science and technology. Sample areas include, but are not limited to smart hardware, software design, smart computing technologies, intelligent communications and networking, web and informatics and computational sciences.

Soft Computing: Theories and Applications

Special Features: " Discusses virtual reality in three

dedicated chapters" Explains the topics with their theoretical, mathematical and programming perspectives" Presents topics form elementary display systems to the most advanced animation and virtual reality systems " Matches with the engineering syllabus of Mumbai UniversityIncludes over: § 262 neatly-drawn illustrations and figures§ 44 solved examples § 255 review questions § 70 multiple-choice questions and their solutions § 57 programming exercises as an appendix§ 40 programming practice

About The Book: Computer Graphics with Virtual Reality Systems is a comprehensive book for undergraduate engineering students of computer science and information technology. The book is a must-have for students, professionals and practitioners interested in object design, transformation, visualization and modeling of real world. Besides, the book is also useful to students of diploma courses and vocational courses at open universities, distance education universities in graphics and animation. Scholars and practitioners, studying computer graphics, image analysis and multimedia courses, can also find the book very helpful.

COMPUTER GRAPHICS WITH VIRTUAL REALITY SYSTEMS

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

Mathematical Elements for Computer Graphics

The volume comprises of papers presented at the first CADEC-2019 conference held at Vellore Institute of Technology-Andhra Pradesh, Amaravati, India. The book contains computer simulated results in various areas of electronics and communication engineering such as, VLSI and embedded systems, wireless communication, signal processing, power electronics and control theory applications. This volume will help researchers and engineers to develop and extend their ideas in upcoming research in electronics and communication.

Advances in Computer and Computational Sciences

This text is ideal for junior-, senior-, and graduate-level courses in computer graphics and computer-aided design taught in departments of mechanical and aeronautical engineering and computer science. It presents in a unified manner an introduction to the mathematical theory underlying computer graphic applications. It covers topics of keen interest to

students in engineering and computer science: transformations, projections, 2-D and 3-D curve definition schemes, and surface definitions. It also includes techniques, such as B-splines, which are incorporated as part of the software in advanced engineering workstations. A basic knowledge of vector and matrix algebra and calculus is required.

Nanobiotechnology

Exchange of information and innovative ideas are necessary to accelerate the development of technology. With advent of technology, intelligent and soft computing techniques came into existence with a wide scope of implementation in engineering sciences. Keeping this ideology in preference, this book includes the insights that reflect the 'Advances in Computer and Computational Sciences' from upcoming researchers and leading academicians across the globe. It contains high-quality peer-reviewed papers of 'International Conference on Computer, Communication and Computational Sciences (ICCCCS 2016), held during 12-13 August, 2016 in Ajmer, India'. These papers are arranged in the form of chapters. The content of the book is divided into two volumes that cover variety of topics such as intelligent hardware and software design, advanced communications, power and energy optimization, intelligent techniques used in internet of things, intelligent image processing, advanced software engineering, evolutionary and soft computing, security and many more. This book helps the perspective readers' from computer industry and

academia to derive the advances of next generation computer and communication technology and shape them into real life applications.

COMPUTER GRAPHICS (With CD)

Smart Innovations in Communication and Computational Sciences

This book addresses many-criteria decision-making (MCDM), a process used to find a solution in an environment with several criteria. In many real-world problems, there are several different objectives that need to be taken into account. Solving these problems is a challenging task and requires careful consideration. In real applications, often simple and easy to understand methods are used; as a result, the solutions accepted by decision makers are not always optimal solutions. On the other hand, algorithms that would provide better outcomes are very time consuming. The greatest challenge facing researchers is how to create effective algorithms that will yield optimal solutions with low time complexity.

Accordingly, many current research efforts are focused on the implementation of biologically inspired algorithms (BIAs), which are well suited to solving uni-objective problems. This book introduces readers to state-of-the-art developments in biologically inspired techniques and their applications, with a major emphasis on the MCDM process. To do so, it presents a wide range of contributions on e.g. BIAs, MCDM, nature-inspired algorithms, multi-criteria optimization,

machine learning and soft computing.

Intelligent Computing and Information and Communication

The scope of the conference is to showcase futuristic technologies focused on Digital transformation of power delivery, Energy storage systems & solutions, IoT and e Transportation and the opportunities therein

Biologically Inspired Techniques in Many-Criteria Decision Making

This book provides an introduction of how radiation is processed in polymeric materials, how materials properties are affected and how the resulting materials are analyzed. It covers synthesis, characterization, or modification of important materials, e.g. polycarbonates, polyamides and polysaccharides, using radiation. For example, a complete chapter is dedicated to the characterization of biodegradable polymers irradiated with low and heavy ions. This book will be beneficial to all polymer scientists in the development of new macromolecules and to all engineers using these materials in applications. It summarizes the fundamental knowledge and latest innovations in research fields from medicine to space.

Intelligent Computing Techniques for Smart Energy Systems

Advanced Computing, Networking and Informatics are

three distinct and mutually exclusive disciplines of knowledge with no apparent sharing/overlap among them. However, their convergence is observed in many real world applications, including cyber-security, internet banking, healthcare, sensor networks, cognitive radio, pervasive computing amidst many others. This two volume proceedings explore the combined use of Advanced Computing and Informatics in the next generation wireless networks and security, signal and image processing, ontology and human-computer interfaces (HCI). The two volumes together include 132 scholarly articles, which have been accepted for presentation from over 550 submissions in the Third International Conference on Advanced Computing, Networking and Informatics, 2015, held in Bhubaneswar, India during June 23-25, 2015.

Networking Communication and Data Knowledge Engineering

This volume contains 69 papers presented at ICICT 2015: International Congress on Information and Communication Technology. The conference was held during 9th and 10th October, 2015, Udaipur, India and organized by CSI Udaipur Chapter, Division IV, SIG-WNS, SIG-e-Agriculture in association with ACM Udaipur Professional Chapter, The Institution of Engineers (India), Udaipur Local Centre and Mining Engineers Association of India, Rajasthan Udaipur Chapter. This volume contains papers mainly focused on ICT for Managerial Applications, E-governance, IOT and e-Mining.

Proceedings of the 1st International Conference on Sustainable Waste Management through Design

The book covers different aspects of real-world applications of optimization algorithms. It provides insights from the Fourth International Conference on Harmony Search, Soft Computing and Applications held at BML Munjal University, Gurgaon, India on February 7-9, 2018. It consists of research articles on novel and newly proposed optimization algorithms; the theoretical study of nature-inspired optimization algorithms; numerically established results of nature-inspired optimization algorithms; and real-world applications of optimization algorithms and synthetic benchmarking of optimization algorithms.

Radiation Effects in Polymeric Materials

Using the kind permission given to me by my co-author, this short preface will be written in my name. I want to devote this book to San Juan city in Argentina. It is not only due to the fact that the city was twice completely destroyed after the devastating earthquakes in 1941 and 1977, but also because my stay there completely changed my life. Changes included changing my career from the field of space plasma physics to Earth sciences and geophysics, and changes in my personal life giving me happiness and compliance in my present family. Going back to the subject of the book, it should be noted that the history of the question asked by the book is very complicated and intricate. Starting in the 1930s from the

observation of seismogenic electric fields, the area of seismo-ionospheric coupling became an area of fighting and conflicts, hopes and frustrations. Speculation and misunderstanding on the interdisciplinary borders made this field for many years (even up to now) taboo for so-called "serious scientists". But due to the courageous efforts of several groups in Russia and the former USSR states such as Kazakhstan and Uzbekistan, Japan, later France and Taiwan, Greece and Italy the situation started to improve.

Procedural Elements for Computer Graphics

Industry 4.0 promises tremendous opportunities for industries to go green by leveraging virtual physical systems and internet driven technologies for a competitive advantage and set the platform for the factory of the future and smart manufacturing. The book provides measures that can be adopted by practicing design engineers, to develop products that will be sustainable in all stages of its life cycle. It helps organizations in implementation of sustainable manufacturing practices and formulation of critical strategies in their transition towards Industry 4.0., and the book will provide insights on ways of deploying these practices in correlation with the environmental benefits mapped to support the practicing managers and stakeholders. Features
Assists in the understanding of the shifting paradigm in manufacturing sector towards smart and sustainable practices
Showcases contemporary technologies and their insurgence in existing

industries Focuses on need, applications, and implementation framework for Industry 4.0
Encapsulates all that one has to learn about sustainability and its transformation in Industry 4.0
Real time case studies are presented

Computer Networks and Information Technologies

The book compiles the research works related to smart solutions concept in context to smart energy systems, maintaining electrical grid discipline and resiliency, computational collective intelligence consisted of interaction between smart devices, smart environments and smart interactions, as well as information technology support for such areas. It includes high-quality papers presented in the International Conference on Intelligent Computing Techniques for Smart Energy Systems organized by Manipal University Jaipur. This book will motivate scholars to work in these areas. The book also prophesies their approach to be used for the business and the humanitarian technology development as research proposal to various government organizations for funding approval.

Technologies for Sustainable Development

The volume presents high quality research papers presented at Second International Conference on Information and Communication Technology for Intelligent Systems (ICICC 2017). The conference was

held during 2–4 August 2017, Pune, India and organized communally by Dr. Vishwanath Karad MIT World Peace University, Pune, India at MIT College of Engineering, Pune and supported by All India Council for Technical Education (AICTE) and Council of Scientific and Industrial Research (CSIR). The volume contains research papers focused on ICT for intelligent computation, communications and audio, and video data processing.

Super 30

This two-volume book contains research work presented at the First International Conference on Data Engineering and Communication Technology (ICDECT) held during March 10–11, 2016 at Lavasa, Pune, Maharashtra, India. The book discusses recent research technologies and applications in the field of Computer Science, Electrical and Electronics Engineering. The aim of the Proceedings is to provide cutting-edge developments taking place in the field data engineering and communication technologies which will assist the researchers and practitioners from both academia as well as industry to advance their field of study.

2018 IEEMA Engineer Infinite Conference (eTechNxT)

Data science, data engineering and knowledge engineering requires networking and communication as a backbone and have wide scope of implementation in engineering sciences. Keeping this

ideology in preference, this book includes the insights that reflect the advances in these fields from upcoming researchers and leading academicians across the globe. It contains high-quality peer-reviewed papers of 'International Conference on Recent Advancement in Computer, Communication and Computational Sciences (ICRACCCS 2016)', held at Janardan Rai Nagar Rajasthan Vidyapeeth University, Udaipur, India, during 25–26 November 2016. The volume covers variety of topics such as Advanced Communication Networks, Artificial Intelligence and Evolutionary Algorithms, Advanced Software Engineering and Cloud Computing, Image Processing and Computer Vision, and Security. The book will help the perspective readers from computer industry and academia to derive the advances of next generation communication and computational technology and shape them into real life applications.

Advances in Signal Processing and Intelligent Recognition Systems

In the aftermath of nuclear war, the Navy destroyer "Nathan James" and its crew--including twenty-six women--searches the seas for a place where survival would be possible.

Proceedings of the International Conference on Data Engineering and Communication Technology

Interest in the study of life in hot environments, both with respect to the inhabiting microorganisms and the

enzymes they produce, is currently very high. The biological mechanisms responsible for the resistance to high temperatures are not yet fully understood, whereas thermostability is a highly required feature for industrial applications. In this e-book, the invited authors provide diverse evidence contributing to the understanding of such mechanisms and the unlocking of the biotechnological potential of thermophiles and thermozymes.

Plan, Activity, and Intent Recognition

This book combines the contributions from the experts of material science, molecular biology, toxicology bio-organic and bio-inorganic chemistry, toxicologists and environmental and food technology etc. to fathom the full scope of current and future of developments in the area of Nanobiotechnology. Provides brief overview of nanobiotechnology for general readers who are not familiar with the research fields and presents a strong overview of most of the critical areas in field This book can also be used as text book for graduate students as an essential reference material, and as an reading material for general readers having a curiosity in Nanobiotechnology.

India and China in Asia

This book constitutes the refereed proceedings of the 4th International Symposium on Security in Computing and Communications, SSCC 2016, held in Jaipur, India, in September 2016. The 23 revised full

papers presented together with 16 short papers and an invited paper were carefully reviewed and selected from 136 submissions. The papers are organized in topical sections on cryptosystems, algorithms, primitives; security and privacy in networked systems; system and network security; steganography, visual cryptography, image forensics; applications security.

Harmony Search and Nature Inspired Optimization Algorithms

This book constitutes the refereed proceedings of the Second International Conference on Advances in Communication, Network, and Computing, CNC 2011, held in Bangalore, India, in March 2011. The 41 revised full papers, presented together with 50 short papers and 39 poster papers, were carefully reviewed and selected for inclusion in the book. The papers feature current research in the field of Information Technology, Networks, Computational Engineering, Computer and Telecommunication Technology, ranging from theoretical and methodological issues to advanced applications.

Computer-Aided Developments: Electronics and Communication

Market_Desc: Special Features: · Covers Practical Examples About The Book: This book provides information about language processors and also introduces to design and implementation of various types of system software such as assemblers, macros,

loaders, and linkers. Along with this, you will also learn about compilers, aspects of compilation, memory allocation, compilation of expression and control structure, code optimization, and interpreters.

Sustainable Manufacturing for Industry 4.0

Plan recognition, activity recognition, and intent recognition together combine and unify techniques from user modeling, machine vision, intelligent user interfaces, human/computer interaction, autonomous and multi-agent systems, natural language understanding, and machine learning. Plan, Activity, and Intent Recognition explains the crucial role of these techniques in a wide variety of applications including: personal agent assistants computer and network security opponent modeling in games and simulation systems coordination in robots and software agents web e-commerce and collaborative filtering dialog modeling video surveillance smart homes In this book, follow the history of this research area and witness exciting new developments in the field made possible by improved sensors, increased computational power, and new application areas. Combines basic theory on algorithms for plan/activity recognition along with results from recent workshops and seminars Explains how to interpret and recognize plans and activities from sensor data Provides valuable background knowledge and assembles key concepts into one guide for researchers or students studying these disciplines

Security in Computing and Communications

This book constitutes the thoroughly refereed proceedings of the second International Symposium on Intelligent Systems Technologies and Applications (ISTA'16), held on September 21-24, 2016 in Jaipur, India. The 80 revised papers presented were carefully reviewed and selected from 210 initial submissions and are organized in topical sections on image processing and artificial vision, computer networks and distributed systems, intelligent tools and techniques and applications using intelligent techniques.

Ionospheric Precursors of Earthquakes

This book describes the latest advances, innovations and applications in the field of waste management and environmental geomechanics as presented by leading researchers, engineers and practitioners at the International Conference on Sustainable Waste Management through Design (IC_SWMD), held in Ludhiana (Punjab), India on November 2-3, 2018. Providing a unique overview of new directions, and opportunities for sustainable and resilient design approaches to protect infrastructure and the environment, it discusses diverse topics related to civil engineering and construction aspects of the resource management cycle, from the minimization of waste, through the eco-friendly re-use and processing of waste materials, the management and disposal of residual wastes, to water treatments and

technologies. It also encompasses strategies for reducing construction waste through better design, improved recovery, re-use, more efficient resource management and the performance of materials recovered from wastes. The contributions were selected by means of a rigorous peer-review process and highlight many exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different waste management specialists.

Nanoelectronics, Circuits and Communication Systems

Anand Kumar, a mathematics prodigy, defied all challenges to set up one of the most successful and innovative teaching initiatives in the world—Super 30. Born in Chandipur Bela, Patna, Anand secured a place in Cambridge University but couldn't attend because he had no money and sold papads in the evenings instead. He dealt with his own disappointment by setting up an innovative school in 2002 to prepare underprivileged students for the IIT JEE examination. Super 30 has an astonishing success rate and on an average, twenty-seven to twenty-eight of the thirty students crack the exam every year. Stirring and heart-wrenching, this is the extraordinary story of a visionary who has elevated these bright sparks and, through education, given them hope to rise above crippling poverty.

Studies in Sampling Techniques and Time Series Analysis

Sudden Ionospheric Disturbances resulting from an interaction of the Solar Flare radiation with the constituents of the upper atmosphere constitute one of the three major aspects of ground level monitoring of solar flares -the other two being optical observations of flares, and the observations of solar bursts in radio wavelengths. SIDs, therefore, form a major part of flare monitoring programme in many observatories. Unlike the other two, however, the ionospheric effects of flares provide one major additional source of interest - the reaction of the ionospheric plasma to an impulsive ionization. The high atmosphere provides a low pressure laboratory without walls in which a host of reactions occur between electrons, ions and neutral particles. The resulting products and their distributions may bear no resemblance to those of the primary neutral constituents or their direct ionization products. The variations with the time of the day, with season and with solar activity that form the bulk of the ionospheric measurements are too slow to allow any insight into the nature of these ionospheric reactions whose lifetimes are often very short. The relaxation time of the ionospheric ionization is only a few minutes or fraction of a minute in the lower ionosphere and in the E-region and is about 30 min to an hour at 300 km. The flares provide a sudden short impulse comparable to these time scales.

SYSTEM PROGRAMMING

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 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.

[ROMANCE](#) [ACTION & ADVENTURE](#) [MYSTERY & THRILLER](#) [BIOGRAPHIES & HISTORY](#) [CHILDREN'S](#) [YOUNG ADULT](#) [FANTASY](#) [HISTORICAL FICTION](#) [HORROR](#) [LITERARY FICTION](#) [NON-FICTION](#) [SCIENCE FICTION](#)