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**Advanced Informatics for Computing Research First International Conference, ICAICR 2017, Jalandhar, India, March 17-18, 2017, Revised Selected Papers Springer** This book constitutes the refereed proceedings of the **First International Conference on Advanced Informatics for Computing Research**, ICAICR 2017, held in Jalandhar, India, in March 2017. The 32 revised full papers presented were carefully reviewed and selected from 312 submissions. The papers are organized in topical sections on **computing methodologies, information systems, security and privacy, network services.** **Advanced Informatics for Computing Research First International Conference, ICAICR 2017, Jalandhar, India, March 17-18, 2017, Revised Selected Papers Advanced Informatics for Computing Research Third International Conference, ICAICR 2019, Shimla, India, June 15-16, 2019, Revised Selected Papers, Part I Springer Nature** This two-volume set (CCIS 1075 and CCIS 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.** **Advanced Informatics for Computing Research Second International Conference, ICAICR 2018, Shimla, India, July**

14-15, 2018, Revised Selected Papers, Part II *Springer* This two-volume set (CCIS 955 and CCIS 956) constitutes the refereed proceedings of the Second International Conference on Advanced Informatics for Computing Research, ICAICR 2018, held in Shimla, India, in July 2018. The 122 revised full papers presented were carefully reviewed and selected from 427 submissions. The papers are organized in topical sections on computing methodologies; hardware; information systems; networks; security and privacy; computing methodologies. Intelligent Communication, Control and Devices Proceedings of ICICCD 2018 *Springer Nature* The book focuses on the integration of intelligent communication systems, control systems, and devices related to all aspects of engineering and 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.

Advanced Informatics for Computing Research 4th International Conference, ICAICR 2020, Gurugram, India, December 26-27, 2020, Revised Selected Papers, Part I *Springer Nature* This two-volume set (CCIS 1393 and CCIS 1394) constitutes selected and revised papers of the 4th International Conference on Advanced Informatics for Computing Research, ICAICR 2020, held in Gurugram, India, in December 2020. The 34 revised full papers and 51 short papers presented were carefully reviewed and selected from 306 submissions. The papers are organized in topical sections on computing methodologies; hardware; networks; security and privacy. Proceedings of ICRIC 2019 Recent Innovations in Computing *Springer Nature* This book presents high-quality, original contributions (both theoretical and experimental) on software engineering, cloud computing, computer networks & internet technologies, artificial intelligence, information security, and database and distributed computing. It gathers papers presented at ICRIC 2019, the 2nd International Conference on Recent Innovations in Computing, which was held in Jammu, India, in March 2019. This conference series represents a targeted response to the growing need for research that reports on and assesses the practical implications of IoT and network technologies, AI and machine learning, cloud-based e-Learning and big data, security and privacy, image processing and computer vision, and next-generation computing technologies. First International Conference on Sustainable Technologies for Computational Intelligence Proceedings of ICTSCI 2019 *Springer Nature* This book gathers high-quality papers presented at the First International Conference on Sustainable Technologies for Computational Intelligence (ICTSCI 2019), which was organized by Sri Balaji College of Engineering and Technology, Jaipur, Rajasthan, India, on March 29-30, 2019. It covers emerging topics in computational intelligence and effective strategies for its implementation

in engineering applications. **Embedded Systems and Artificial Intelligence Proceedings of ESAI 2019, Fez, Morocco** *Springer Nature* This book gathers selected research papers presented at the First International Conference on Embedded Systems and Artificial Intelligence (ESAI 2019), held at Sidi Mohamed Ben Abdellah University, Fez, Morocco, on 2-3 May 2019. Highlighting the latest innovations in Computer Science, Artificial Intelligence, Information Technologies, and Embedded Systems, the respective papers will encourage and inspire researchers, industry professionals, and policymakers to put these methods into practice.

**Advanced Informatics for Computing Research Second International Conference, ICAICR 2018, Shimla, India, July 14-15, 2018, Revised Selected Papers, Part I** *Springer* This two-volume set (CCIS 955 and CCIS 956) constitutes the refereed proceedings of the Second International Conference on Advanced Informatics for Computing Research, ICAICR 2018, held in Shimla, India, in July 2018. The 122 revised full papers presented were carefully reviewed and selected from 427 submissions. The papers are organized in topical sections on computing methodologies; hardware; information systems; networks; security and privacy; computing methodologies.

**Control Systems: Theory and Applications** *River Publishers* In recent years, a considerable amount of effort has been devoted, both in industry and academia, towards the development of advanced methods of control theory with focus on its practical implementation in various fields of human activity such as space control, robotics, control applications in marine systems, control processes in agriculture and food production. **Control Systems: Theory and Applications** consists of selected best papers which were presented at XXIV International conference on automatic control "Automatics 2017" (September 13-15, 2017, Kyiv, Ukraine) organized by Ukrainian Association on Automatic Control (National member organization of IFAC - International Federation on Automatic Control) and National University of Life and Environmental Sciences of Ukraine. More than 120 presentations were discussed at the conference, with participation of the scientists from the numerous countries. The book is divided into two main parts, a first on Theory of Automatic Control (5 chapters) and the second on Control Systems Applications (8 chapters). The selected chapters provide an overview of challenges in the area of control systems design, modeling, engineering and implementation and the approaches and techniques that relevant research groups within this area are employing to try to resolve these. This book on advanced methods of control theory and successful cases in the practical implementation is ideal for personnel in modern technological processes automation and SCADA systems, robotics, space and marine industries as well as academic staff and master/research students in computerized control systems, automatized and computer-integrated systems, electrical and mechanical engineering.

**Recent Innovations in Computing Proceedings of ICRIC 2020** *Springer Nature* This book features selected papers presented at the 3rd International Conference on Recent Innovations in Computing (ICRIC 2020),

held on 20-21 March 2020 at the Central University of Jammu, India, and organized by the university's Department of Computer Science & Information Technology. It includes the latest research in the areas of software engineering, cloud computing, computer networks and Internet technologies, artificial intelligence, information security, database and distributed computing, and digital India. **Proceedings of ICETIT 2019 Emerging Trends in Information Technology** *Springer Nature* This book presents high-quality, original contributions (both theoretical and experimental) on Information Security, Machine Learning, Data Mining and Internet of Things (IoT). It gathers papers presented at ICETIT 2019, the 1st International Conference on Emerging Trends in Information Technology, which was held in Delhi, India, in June 2019. This conference series represents a targeted response to the growing need for research that reports on and assesses the practical implications of IoT and network technologies, AI and machine learning, data analytics and cloud computing, security and privacy, and next generation computing technologies.

**Detection of Intrusions and Malware, and Vulnerability Assessment 4th International Conference, DIMVA 2007** Lucerne, Switzerland, July 12-13, 2007 **Proceedings** *Springer Science & Business Media* This book constitutes the refereed proceedings of the 4th International Conference on Detection of Intrusions and Malware, and Vulnerability Assessment, DIMVA 2007, held in Lucerne, Switzerland in July 2007. The 14 revised full papers presented were carefully reviewed and selected from 57 submissions. The papers are organized in topical sections on Web security, intrusion detection, traffic analysis, network security, and host security.

**Handbook of Research on Big Data and the IoT** *IGI Global* The increase in connected devices in the internet of things (IoT) is leading to an exponential increase in the data that an organization is required to manage. To successfully utilize IoT in businesses, big data analytics are necessary in order to efficiently sort through the increased data. The combination of big data and IoT can thus enable new monitoring services and powerful processing of sensory data streams. The Handbook of Research on Big Data and the IoT is a pivotal reference source that provides vital research on emerging trends and recent innovative applications of big data and IoT, challenges facing organizations and the implications of these technologies on society, and best practices for their implementation. While highlighting topics such as bootstrapping, data fusion, and graph mining, this publication is ideally designed for IT specialists, managers, policymakers, analysts, software engineers, academicians, and researchers.

**Artificial Intelligence and Evolutionary Computations in Engineering Systems** *Springer Nature* This book gathers selected papers presented at the 4th International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems, held at the SRM Institute of Science and Technology, Kattankulathur, Chennai, India, from 11 to 13 April 2019. It covers advances and recent developments in various computational intelligence techniques, with an emphasis on the design of communication systems. In

addition, it shares valuable insights into advanced computational methodologies such as neural networks, fuzzy systems, evolutionary algorithms, hybrid intelligent systems, uncertain reasoning techniques, and other machine learning methods and their application to decision-making and problem-solving in mobile and wireless communication networks. Rough Set and Knowledge Technology 5th International Conference, RSKT 2010, Beijing, China, October 15-17, 2010, Proceedings Springer Science & Business Media This book constitutes the refereed proceedings of the 5th International Conference on Rough Set and Knowledge Technology, RSKT 2010, held in Beijing, China, in October 2010. The 98 revised full papers presented were carefully reviewed and selected from 175 initial submissions. The papers are organized in topical sections on rough sets and computing theory, fuzzy sets, knowledge technology, intelligent information processing, health informatics and biometrics authentication, neural networks, complex networks, granular computing, metaheuristic, cloud model and its application, data mining in cloud computing, decision-theoretic rough set model, and quotient space theory research and application. 2019 Fifth International Conference on Image Information Processing (ICIIP) The aim of this conference is to bring together researchers in the academic institutions and R&D Research Labs, working in the related fields and to use this as a forum to exchange views and ideas The conference has become a platform for Computer Science researchers from India and abroad to exchange research results and ideas on the foundations and applications of Image Processing and related areas The area of Imaging Science and Image Computing has grown enormously in the past decade with wide ranging applications From the perspective of computer science and information technology, the subareas of Image Processing, Computer Vision, Image security & forensics, Pattern recognition and Computer Graphics form the core areas for this conference Socialite Evenings Penguin UK A divorce and a succession of sordid affairs have left prominent Bombay socialite Karuna feeling battered, empty and melancholic. She looks back upon her life and the friends and enemies who surround her—neurotic, man-hungry Anjali; gorgeous, vivacious Ritu; high-profile editor Varun, with a penchant for young boys; Krish, the pretentious adman, whose wife actively helps him in his extramarital affairs. Scandalous, astute and utterly riveting, Shobhaa Dé's first novel, Socialite Evenings, laid bare the world of high-society India and changed the face of the Indian novel forever. Garnet Poems An Anthology of Connecticut Poetry Since 1776 Wesleyan University Press Connecticut may be a small state, but it is large indeed in its contribution to the nation's literature. Garnet Poems features forty-two poets whose work has a strong connection to Connecticut. The first major anthology of Connecticut poetry to appear since the mid-nineteenth century, it includes the work of such notable poets as Wallace Stevens, Lydia Sigourney, Mark Van Doren, Richard Wilbur, Susan Howe, and Elizabeth Alexander. Distinguished writer-scholar Dennis Barone has supplemented the poems with an editor's preface,

notes that illuminate the poet's (or poem's) relation to the state, and informative biographies. The book also features a foreword by Dick Allen, the current Connecticut state poet laureate. **Recent Studies on Computational Intelligence Doctoral Symposium on Computational Intelligence (DoSCI 2020)** *Springer Nature* This book gathers the latest quality research work of Ph.D. students working on the current areas presented in the Doctoral Symposium on Computational Intelligence (DoSCI 2020). The book includes works in the areas of artificial intelligence, deep learning, evolutionary algorithms, swarm intelligence, fuzzy sets and vague sets, rough set theoretic approaches, quantum-inspired computational intelligence, hybrid computational intelligence, machine learning, computer vision, soft computing, distributed computing, parallel and grid computing, cloud computing, high-performance computing, biomedical computing, decision support and decision making. The book is useful for researchers, students, engineers, practitioners and academicians in their advance studies. **Information and Communication Technologies in Tourism 2015 Proceedings of the International Conference in Lugano, Switzerland, February 3 - 6, 2015** *Springer* The papers presented in this volume advance the state-of-the-art research on big data and analytics, social media, electronic marketing, mobile computing and recommender systems, mobile sensors and geosocial services, augmented reality, wearable computing, smart tourism, electronic distribution for tourism and hospitality products and services, e-learning, responsive web design and management, and eTourism for development. This book covers the most significant areas contributed by prominent scholars from around the world and is suitable for both academics and practitioners who are interested in the latest developments in e-Tourism. **Emerging Trends in Mechanical Engineering Select Proceedings of ICETME 2018** *Springer Nature* This book comprises select proceedings of the International Conference on Emerging Trends in Mechanical Engineering (ICETME 2018). The book covers various topics of mechanical engineering like computational fluid dynamics, heat transfer, machine dynamics, tribology, and composite materials. In addition, relevant studies in the allied fields of manufacturing, industrial and production engineering are also covered. The applications of latest tools and techniques in the context of mechanical engineering problems are discussed in this book. The contents of this book will be useful for students, researchers as well as industry professionals. **Economic Implications of Congestion Rough Sets: Selected Methods and Applications in Management and Engineering** *Springer Science & Business Media* **Rough Set Theory**, introduced by Pawlak in the early 1980s, has become an important part of soft computing within the last 25 years. However, much of the focus has been on the theoretical understanding of Rough Sets, with a survey of Rough Sets and their applications within business and industry much desired. **Rough Sets: Selected Methods and Applications in Management and Engineering** provides context to Rough Set theory, with each chapter exploring a real-world application of Rough Sets. Rough Sets is relevant to

managers striving to improve their businesses, industry researchers looking to improve the efficiency of their solutions, and university researchers wanting to apply Rough Sets to real-world problems. **Advanced Informatics for Computing Research 4th International Conference, ICAICR 2020, Gurugram, India, December 26-27, 2020, Revised Selected Papers, Part II** *Springer* This two-volume set (CCIS 1393 and CCIS 1394) constitutes selected and revised papers of the 4th International Conference on Advanced Informatics for Computing Research, ICAICR 2020, held in Gurugram, India, in December 2020. The 34 revised full papers and 51 short papers presented were carefully reviewed and selected from 306 submissions. The papers are organized in topical sections on computing methodologies; hardware; networks; security and privacy. **Fundamentals of Digital Image Processing A Practical Approach with Examples in Matlab** *John Wiley & Sons* This is an introductory to intermediate level text on the science of image processing, which employs the Matlab programming language to illustrate some of the elementary, key concepts in modern image processing and pattern recognition. The approach taken is essentially practical and the book offers a framework within which the concepts can be understood by a series of well chosen examples, exercises and computer experiments, drawing on specific examples from within science, medicine and engineering. Clearly divided into eleven distinct chapters, the book begins with a fast-start introduction to image processing to enhance the accessibility of later topics. Subsequent chapters offer increasingly advanced discussion of topics involving more challenging concepts, with the final chapter looking at the application of automated image classification (with Matlab examples) . Matlab is frequently used in the book as a tool for demonstrations, conducting experiments and for solving problems, as it is both ideally suited to this role and is widely available. Prior experience of Matlab is not required and those without access to Matlab can still benefit from the independent presentation of topics and numerous examples. Features a companion website [www.wiley.com/go/solomon/fundamentals](http://www.wiley.com/go/solomon/fundamentals) containing a Matlab fast-start primer, further exercises, examples, instructor resources and accessibility to all files corresponding to the examples and exercises within the book itself. Includes numerous examples, graded exercises and computer experiments to support both students and instructors alike. **Handbook of Research on Advancements of Artificial Intelligence in Healthcare Engineering** *IGI Global* Artificial intelligence (AI) is revolutionizing every aspect of human life including human healthcare and wellbeing management. Various types of intelligent healthcare engineering applications have been created that help to address patient healthcare and outcomes such as identifying diseases and gathering patient information. Advancements in AI applications in healthcare continue to be sought to aid rapid disease detection, health monitoring, and prescription drug tracking. **The Handbook of Research on Advancements of Artificial Intelligence in Healthcare Engineering** is an essential scholarly publication that provides

comprehensive research on the possible applications of machine learning, deep learning, soft computing, and evolutionary computing techniques in the design, implementation, and optimization of healthcare engineering solutions. Featuring a wide range of topics such as genetic algorithms, mobile robotics, and neuroinformatics, this book is ideal for engineers, technology developers, IT consultants, hospital administrators, academicians, healthcare professionals, practitioners, researchers, and students. Philosophical Explorations of the Legacy of Alan Turing Turing 100 *Springer* Chapters “Turing and Free Will: A New Take on an Old Debate” and “Turing and the History of Computer Music” are available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](http://link.springer.com). Computer and Information Sciences II 26th International Symposium on Computer and Information Sciences *Springer* Information technology is the enabling foundation for all of human activity at the beginning of the 21st century, and advances in this area are crucial to all of us. These advances are taking place all over the world and can only be followed and perceived when researchers from all over the world assemble, and exchange their ideas in conferences such as the one presented in this proceedings volume regarding the 26th International Symposium on Computer and Information Systems, held at the Royal Society in London on 26th to 28th September 2011. Computer and Information Sciences II contains novel advances in the state of the art covering applied research in electrical and computer engineering and computer science, across the broad area of information technology. It provides access to the main innovative activities in research across the world, and points to the results obtained recently by some of the most active teams in both Europe and Asia. NexGen Technologies for Mining and Fuel Industries (Volume I and II) *Allied Publishers* The papers in these two volumes were presented at the International Conference on “NexGen Technologies for Mining and Fuel Industries” [NxGnMiFu-2017] in New Delhi from February 15-17, 2017, organized by CSIR-Central Institute of Mining and Fuel Research, Dhanbad, India. The proceedings include the contributions from authors across the globe on the latest research on mining and fuel technologies. The major issues focused on are: Innovative Mining Technology, Rock Mechanics and Stability Analysis, Advances in Explosives and Blasting, Mine Safety and Risk Management, Computer Simulation and Mine Automation, Natural Resource Management for Sustainable Development, Environmental Impacts and Remediation, Paste Fill Technology and Waste Utilisation, Fly Ash Management, Clean Coal Initiatives, Mineral Processing and Coal Beneficiation, Quality Coal for Power Generation and Conventional and Non-conventional Fuels and Gases. This collection of contemporary articles contains unique knowledge, case studies, ideas and insights, a must-have for researchers and engineers working in the areas of mining technologies and fuel sciences. Artificial Intelligence and Evolutionary Computations in Engineering Systems Proceedings of ICAIECES 2016 *Springer* The volume is a collection of high-quality peer-reviewed research papers presented in the

**International Conference on Artificial Intelligence and Evolutionary Computation in Engineering Systems (ICAIECES 2016)** held at SRM University, Chennai, Tamilnadu, India. This conference is an international forum for industry professionals and researchers to deliberate and state their research findings, discuss the latest advancements and explore the future directions in the emerging areas of engineering and technology. The book presents original work and novel ideas, information, techniques and applications in the field of communication, computing and power technologies.

**Biometric Authentication First International Conference, ICBA 2004, Hong Kong, China, July 15-17, 2004, Proceedings** *Springer Science & Business Media* This book constitutes the refereed proceedings of the First International Conference on Biometric Authentication, ICBA 2004, held in Hong Kong, China in July 2004. The 104 revised full papers presented were carefully reviewed and selected from 157 submissions; also included are summaries of 3 biometric competitions on fingerprint verification, face authentication, and signature verification. The papers are organized in topical sections on face, fingerprint, iris, signature, speech, biometric fusion and risk analysis, and other biometric issues.

**International Journal of Information System Modeling and Design (IJISMD). Introduction to Cognitive Radio Networks and Applications** *CRC Press* Cognitive radio is 5-G technology, comes under IEEE 802.22 WRAN (Wireless Regional Area Network) standards. It is currently experiencing rapid growth due to its potential to solve many of the problems affecting present-day wireless systems. The foremost objective of "Introduction to Cognitive Radio Networks and Applications" is to educate wireless communication generalists about cognitive radio communication networks. Written by international leading experts in the field, this book caters to the needs of researchers in the field who require a basis in the principles and the challenges of cognitive radio networks.

**Rough Sets and Knowledge Technology 8th International Conference, RSKT 2013, Halifax, NS, Canada, October 11-14, 2013, Proceedings** *Springer* This book constitutes the thoroughly refereed conference proceedings of the 8th International Conference on Rough Sets and Knowledge Technology, RSKT 2013, held in Halifax, Canada in October 2013 as one of the co-located conferences of the 2013 Joint Rough Set Symposium, JRS 2013. The 69 papers (including 44 regular and 25 short papers) included in the JRS proceedings (LNCS 8170 and LNCS 8171) were carefully reviewed and selected from 106 submissions. The papers in this volume cover topics such as history and future of rough sets; foundations and probabilistic rough sets; rules, reducts, ensembles; new trends in computing; three-way decision rough sets; and learning, predicting, modeling.

**Advances in Computational Techniques for Biomedical Image Analysis Methods and Applications** *Academic Press* **Advances in Computational Techniques for Biomedical Image Analysis: Methods and Applications** focuses on post-acquisition challenges such as image enhancement, detection of edges and objects, analysis of shape, quantification of texture and sharpness, and pattern analysis. It

discusses the archiving and transfer of images, presents a selection of techniques for the enhancement of contrast and edges, for noise reduction and for edge-preserving smoothing. It examines various feature detection and segmentation techniques, together with methods for computing a registration or normalization transformation. **Advances in Computational Techniques for Biomedical Image Analysis: Method and Applications** is ideal for researchers and post graduate students developing systems and tools for health-care systems. Covers various challenges and common research issues related to biomedical image analysis Describes advanced computational approaches for biomedical image analysis Shows how algorithms are applied to a broad range of application areas, including Chest X-ray, breast CAD, lung and chest, microscopy and pathology, etc. Explores a range of computational algorithms and techniques, such as neural networks, fuzzy sets, and evolutionary optimization Explores cloud based medical imaging together with medical imaging security and forensics **Digital Signal Processing Fundamentals** *Firewall Media* **About the Book :** - **Digital Signal Processing Fundamentals** **Digital Signal Processing (DSP)**, as the term suggests, is the processing of signals using digital computers. These signals might be anything transferred from an analog domain to a digital form (e.g., temperature and pressure sensors, voices over a telephone, images from a camera, or data transmittal though computes). As a result, understanding the whole spectrum of DSP technology can be a daunting task for electrical engineering professionals and students alike. **Digital Signal Processing Fundamentals** provides a comprehensive look at DSP by introducing the important mathematical processes and then providing several application-specific tutorials for practicing the techniques learned. Beginning with general theory, including **Fourier Analysis**, the mathematics of complex numbers, Fourier transforms, differential equations, analog and digital filters, and much more; the book then delves into Matlab and Scilab tutorials with examples on solving practical engineering problems, followed by software applications on image processing and audio processing - complete with all the algorithms and source code. This is an invaluable resource for anyone seeking to understand how DSP works. **Features:** Provides a comprehensive overview and introduction of digital signal processing technology. Provides application with software algorithms Explains the concept of Nyquist frequency, orthogonal functions and method of finding Fourier coefficients Includes a CD-ROM with the source code for the projects plus Matlab and Scilab that generate graphs, figures in the book, and third party application software Discusses the techniques of digital filtering and windowing of input data, including: Butterworth, Chebyshev, and elliptic filter formulation. **Table Of Contents :** **Fourier Analysis** **Complex Number Arithmetic** **The Fourier Transform** **Solutions of Differential Equations** **Laplace Transforms and z-Tranforms** **Filter Design** **Digital Filters** **The FIR Filters** **Appendix A : Matlab Tutorial** **Appendix B : Scilab Tutorial** **Appendix C : Digital Filter Applications** **Appendix D : About the CD-ROM** **Appendix E :**

**Software Licenses Appendix F : Bibliography Index About Author :- Ashfaq A. Khan (Baton Rouge, LA) is a senior software engineer for LIGO Livingston Observatory, with over 20 years of experience in system design. He has conducted several workshop and is the author of Practical Linux Programming: Device Drivers, Embedded Systems, and the Internet. 2020 IEEE International Conference on Computing, Power and Communication Technologies (GUCON) Computer, Electrical, and Electronics and Communication The Old Man**