Lsb Steganography Using Matlab

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Signal Processing, Image Processing and Pattern Recognition Tai-hoon Kim 2011-11-29 This book comprises selected papers of the International Conference on Signal Processing, Image Processing and Pattern Recognition, SIP 2011, held as Part of the Future Generation Information Technology Conference, FGIT 2011, in Conjunction with GDC 2011, in Conjunction with GDC 2011, Jeju Island, Korea, in December 2011. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of signal processing, image processing and pattern recognition.

Proceedings of the Third International Conference on Information Management and Machine Intelligence Dinesh Goyal 2022-09-04 This book features selected papers presented at Third International Conference on International Conference on Information Management and Machine Intelligence (ICIMMI 2021) held at Poornima Institute of Engineering & Technology, Jaipur, Rajasthan, India during 23 – 24 December 2021. It covers a range of topics, including data analytics; AI; machine and deep learning; information management, security, processing techniques and interpretation; applications of artificial intelligence in soft computing and pattern recognition; cloud-based applications for machine learning; application of IoT in power distribution systems; as well as wireless sensor networks and adaptive wireless communication.

Advanced Computer and Communication Engineering Technology Hamzah Asyrani Sulaiman 2014-11-01 This book covers diverse aspects of advanced computer and communication engineering, focusing specifically on industrial and manufacturing theory and applications of electronics, communications, computing and information technology. Experts in research, industry, and academia present the latest developments in technology, describe applications involving cutting-edge communication and computer systems and explore likely future directions. In addition, access is offered to numerous new algorithms that assist in solving computer and communication engineering problems. The book is based on presentations delivered at ICOCOE 2014, the 1st International Conference on Communication and Computer Engineering. It will appeal to a wide range of professionals in the field, including telecommunication engineers, computer engineers and scientists, researchers, academics and students.

Advanced Digital Image Steganography Using LSB, PVD, and EMD: Emerging Research and Opportunities Swain, Gandharba 2019-06-28 In the last few decades, the use of the Internet has grown tremendously, and the use of online communications has grown even more. The lack of security in private messages between individuals, however, allows hackers to collect loads of sensitive information. Modern security measures are required to prevent this attack on the world□s communication technologies. Advanced Digital Image Steganography Using LSB,

PVD, and EMD: Emerging Research and Opportunities provides evolving research exploring the theoretical and practical aspects of data encryption techniques and applications within computer science. The book provides introductory knowledge on steganography and its importance, detailed analysis of how RS and PDH are performed, discussion on pixel value differencing principles, and hybrid approaches using substitution, PVD, and EMD principles. It is ideally designed for researchers and graduate and under graduate students seeking current research on the security of data during transit.

Distributed Computing and Internet Technology Günter Fahrnberger 2019-01-02 This book constitutes the proceedings of the 15th International Conference on Distributed Computing and Internet Technology, ICDCIT 2019, held in Bhubaneswar, India, in January 2019. The 18 full papers and 14 short papers presented together with 5 invited papers were carefully reviewed and selected from 115 submissions. The papers present research in three areas: distributed computing, Internet technologies, and societal applications.

ICT Systems and Sustainability Milan Tuba 2022-01-04 This book proposes new technologies and discusses future solutions for ICT design infrastructures, as reflected in high-quality papers presented at the 6th International Conference on ICT for Sustainable Development (ICT4SD 2021), held in Goa, India, on 5-6 August 2021. The book covers the topics such as big data and data mining, data fusion, IoT programming toolkits and frameworks, green communication systems and network, use of ICT in smart cities, sensor networks and embedded system, network and information security, wireless and optical networks, security, trust, and privacy, routing and control protocols, cognitive radio and networks, and natural language processing. Bringing together experts from different countries, the book explores a range of central issues from an international perspective.

Intelligent Computing Kohei Arai 2018-11-01 This book, gathering the Proceedings of the 2018 Computing Conference, offers a remarkable collection of chapters covering a wide range of topics in intelligent systems, computing and their real-world applications. The Conference attracted a total of 568 submissions from pioneering researchers, scientists, industrial engineers, and students from all around the world. These submissions underwent a double-blind peer review process. Of those 568 submissions, 192 submissions (including 14 poster papers) were selected for inclusion in these proceedings. Despite computer science’s comparatively brief history as a formal academic discipline, it has made a number of fundamental contributions to science and society—in fact, along with electronics, it is a founding science of the current epoch of human history (‘the Information Age’) and a main driver of the Information Revolution. The goal of this conference is to provide a platform for researchers to present fundamental contributions, and to be a premier venue for academic and industry practitioners to share new ideas and development experiences. This book collects state of the art chapters on all aspects of Computer Science, from classical to intelligent. It covers both the theory and applications of the latest computer technologies and methodologies. Providing the state of the art in intelligent methods and techniques for solving real-world problems, along with a vision of future research, the book will be interesting and valuable for a broad readership.

Applied Computing and Information Technology Roger Lee 2019-08-21 This book gathers the outcomes of the 7th International Conference on Applied Computing and Information Technology (ACIT 2019), which was held on May 29-31, 2019 in

Honolulu, Hawaii. The aim of the conference was to bring together researchers and scientists, businesspeople and entrepreneurs, teachers, engineers, computer users, and students to discuss the various fields of computer science and to share their experiences and exchange new ideas and information in a meaningful way. Further, they presented research results on all aspects (theory, applications and tools) of computer and information science, and discussed the practical challenges encountered in their work and the solutions they adopted to overcome them. The book highlights the best papers from those accepted for presentation at the conference. They were chosen based on review scores submitted by members of the program committee and underwent further rigorous rounds of review. From this second round, 15 of the conference's most promising papers were selected for this Springer (SCI) book and not the conference proceedings. We eagerly await the important contributions that we know these authors will make to the field of computer and information science.

Cryptography and Cryptanalysis in MATLAB Marius Iulian Mihailescu 2021-09-26 Master the essentials of cryptography and cryptanalysis and learn how to put them to practical use. Each chapter of this book starts with an introduction to the concepts on which cryptographic algorithms are based and how they are used in practice, providing fully working examples for each of the algorithms presented. Implementation sections will guide you through the entire process of writing your own applications and programs using MATLAB. Cryptography and Cryptanalysis in MATLAB will serve as your definitive go-to cryptography reference, whether you are a student, professional developer, or researcher, showing how a multitude of cryptographic challenges can be overcome using the powerful tools of MATLAB. What You Will Learn Discover MATLAB's cryptography functions Work with conversion mechanisms in MATLAB Implement cryptographic algorithms using arithmetic operations Understand the classical, simple cryptosystems that form the basis of modern cryptography Develop fully working solutions (encryption/decryption operations) Study pseudo-random generators and their real-life implementations Utilize hash functions by way of practical examples Implement solutions to defend against practical cryptanalysis methods and attacks Understand asymmetric and symmetric encryption systems and how to use them Leverage visual cryptography, steganography, and chaos-based cryptography Who This Book Is For Those who are new to cryptography/analysis. Some prior exposure to MATLAB recommended.

Digital Media Steganography Mahmoud Hassaballah 2020-06-27 The common use of the Internet and cloud services in transmission of large amounts of data over open networks and insecure channels, exposes that private and secret data to serious situations. Ensuring the information transmission over the Internet is safe and secure has become crucial, consequently information security has become one of the most important issues of human communities because of increased data transmission over social networks. Digital Media Steganography: Principles, Algorithms, and Advances covers fundamental theories and algorithms for practical design, while providing a comprehensive overview of the most advanced methodologies and modern techniques in the field of steganography. The topics covered present a collection of high-quality research works written in a simple manner by world-renowned leaders in the field dealing with specific research problems. It presents the state-of-the-art as well as the most recent trends in digital media steganography. Covers fundamental theories and algorithms for practical design which form the basis of modern digital media steganography Provides new theoretical breakthroughs and a number of modern techniques in steganography Presents the latest advances in digital media steganography such as using deep learning and artificial neural network as well

as Quantum Steganography

First International Conference of the South Asian Society of Criminology and Victimology (SASCV), 15-17 January 2011, Jaipur, Rajasthan, India K. Jaishankar and Natti Ronel 2011

Advances in Information Technology Borworn Papasratorn 2013-12-09 This book constitutes the proceedings of the 6th International Conference on Advances in Information Technology, IAIT 2013, held in Bangkok, Thailand, in December 2013. The 23 revised papers presented in this volume were carefully reviewed and selected from numerous submissions. They deal with all areas related to applied information technology.

Sustainable Advanced Computing Sagaya Aurelia

International Conference on Innovative Computing and Communications Siddhartha Bhattacharyya 2018-11-02 The book includes high-quality research papers presented at the International Conference on Innovative Computing and Communication (ICICC 2018), which was held at the Guru Nanak Institute of Management (GNIM), Delhi, India on 5-6 May 2018. Introducing the innovative works of scientists, professors, research scholars, students and industrial 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.

Annual Review of Network Management and Security International Engineering Consortium 2006 A thorough, detailed look into the world of the telecommunications, the internet, and information industries and their relation to networks and security, global specialists have come together in this volume to reveal their ideas on related topics. This reference includes notable discussions on the design of telecommunications networks, information management, network inventory, security policy and quality, and internet tomography and statistics.

A Security System for a Digital Camera Polepogu Rajesh 2019-09-24 This book is mainly focus on hiding of text, image and audio in to an image. This steganography technique is important Technique, because even though the stegno image is filtered using LSB filter it cannot be detected i.e., to make it much difficult to automate. According to the steps of design, there are 16 main cases with their 6 sub cases that cover the aspects of the input data. The pixels are selected according to the segmentation of the cover image. Steganography algorithm provides high security by using the two theories but the new algorithm is designed with three layers which works individually and provide unbreakable security wall through the encryption of the input data and confuse steganalys is too. Two passwords are given one password is for encryption of data and the second password is for pixels selection. Here the password is not important but the length of the password is important. Depending on the password length the pixels are decided. The algorithm for cryptographic secrecy in steganographic embedding for hiding digital data (image or text or audio) into image is been designed and implemented using MATLAB.

Applied Video Processing in Surveillance and Monitoring Systems Dey, Nilanjan 2016-10-11 Video monitoring has become a vital aspect within the global society as it helps prevent crime, promote safety, and track daily activities such as

traffic. As technology in the area continues to improve, it is necessary to evaluate how video is being processed to improve the quality of images. Applied Video Processing in Surveillance and Monitoring Systems investigates emergent techniques in video and image processing by evaluating such topics as segmentation, noise elimination, encryption, and classification. Featuring real-time applications, empirical research, and vital frameworks within the field, this publication is a critical reference source for researchers, professionals, engineers, academicians, advanced-level students, and technology developers.

Cloud Computing and Security Xingming Sun 2016-11-03 This two volume set LNCS 10039 and LNCS 10040 constitutes the thoroughly refereed post-conference proceedings of the Second International Conference on Cloud Computing and Security, ICCCS 2016, held in Nanjing, China, during July 29-31, 2016. The 97 papers of these volumes were carefully reviewed and selected from 272 submissions. The papers are organized in topical sections such as: Information Hiding, Cloud Computing, Cloud Security, IOT Applications, Multimedia Applications, Multimedia Security and Forensics.

Cyber Security and Digital Forensics Kavita Khanna 2021-10-01 This book features high-quality research papers presented at the International Conference on Applications and Techniques in Cyber Security and Digital Forensics (ICCSDF 2021), held at The NorthCap University, Gurugram, Haryana, India, during April 3-4, 2021. This book discusses the topics ranging from information security to cryptography, mobile application attacks to digital forensics, and from cyber security to blockchain. The goal of the book is to provide 360-degree view of cybersecurity to the readers which include cyber security issues, threats, vulnerabilities, novel idea, latest technique and technology, and mitigation of threats and attacks along with demonstration of practical applications. This book also highlights the latest development, challenges, methodologies as well as other emerging areas in this field. It brings current understanding of common Web vulnerabilities while maintaining awareness and knowledge of contemporary standards, practices, procedures, and methods of Open Web Application Security Project. It also expounds how to recover information after a cybercrime.

Coding for Data and Computer Communications David Salomon 2006-02-28 Details the most important techniques used to make the storage and transmission of data fast, secure, and reliable. Accessible to both specialists and nonspecialists: Avoids complex mathematics

Cyber Security and Computer Science Touhid Bhuiyan 2020-07-29 This book constitutes the refereed post-conference proceedings of the Second International Conference on Cyber Security and Computer Science, ICONCS 2020, held in Dhaka, Bangladesh, in February 2020. The 58 full papers were carefully reviewed and selected from 133 submissions. The papers detail new ideas, inventions, and application experiences to cyber security systems. They are organized in topical sections on optimization problems; image steganography and risk analysis on web applications; machine learning in disease diagnosis and monitoring; computer vision and image processing in health care; text and speech processing; machine learning in health care; blockchain applications; computer vision and image processing in health care; malware analysis; computer vision; future technology applications; computer networks; machine learning on imbalanced data; computer security; Bangla language processing.

Information and Communication Technology for Intelligent Systems Tomonobu Senjyu 2020-10-29 This book gathers papers addressing state-of-the-art research in all areas of information and communication technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the Fourth International Conference on Information and Communication Technology for Intelligent Systems, which was held in Ahmedabad, India. Divided into two volumes, the book discusses the fundamentals of various data analysis techniques and algorithms, making it a valuable resource for researchers and practitioners alike.

Steganography Using Visual Cryptography Pratheek Praveen Kumar This work is authored by Pratheek Praveen Kumar along with Ruchir Bhgat and Shiksha Suvarna, all three Telecommunications Engineers. Digital Watermarking is the process of irreversibly embedding information into a digital signal. The signal may be audio, pictures or video. There are two types of Watermarking, Visible Watermarking and Invisible Watermarking. In Visible Watermarking, the information is visible in the picture or video. Typically, the information is text or a logo which identifies the owner of the media. Example of Visible Watermark is when a television broadcaster adds its logo to the corner of transmitted video. In Invisible Watermarking, information is added as digital data to audio, picture or video, but it cannot be perceived as such (although it is possible to detect the hidden information). Digital Watermarking schemes are widely being used as potential solution for ownership protection. The Watermarking algorithms in general, may be viewed as digital communication scheme for imperceptible transmission of an auxiliary message through cover image. Several software implementations of the proposed algorithms are available, but very few attempts have been made for the property of robustness and they are not able to provide the good visual Recovery Watermark Image (IWD) as user aspect. This is accomplished by spreading one watermark bit over many samples of the Cover data using a modulated spreading sequence. This is a study of this technology.

Annual Review of Communications 2005

STEGANOGRAPHY USING VISUAL CRYPTOGRAPHY PRATHEEK PRAVEEN KUMAR This work is authored by Pratheek Praveen Kumar along with Ruchir Bhgat and Shiksha Suvarna, all three Telecommunications Engineers. Digital Watermarking is the process of irreversibly embedding information into a digital signal. The signal may be audio, pictures or video. There are two types of Watermarking, Visible Watermarking and Invisible Watermarking. In Visible Watermarking, the information is visible in the picture or video. Typically, the information is text or a logo which identifies the owner of the media. Example of Visible Watermark is when a television broadcaster adds its logo to the corner of transmitted video. In Invisible Watermarking, information is added as digital data to audio, picture or video, but it cannot be perceived as such (although it is possible to detect the hidden information). Digital Watermarking schemes are widely being used as potential solution for ownership protection. The Watermarking algorithms in general, may be viewed as digital communication scheme for imperceptible transmission of an auxiliary message through cover image. Several software implementations of the proposed algorithms are available, but very few attempts have been made for the property of robustness and they are not able to provide the good visual Recovery Watermark Image (IWD) as user aspect. This is accomplished by spreading one watermark bit over many samples of the Cover data using a modulated spreading sequence. This is a study of this technology.

Soft Computing for Security Applications G. Ranganathan

Proceedings of International Ethical Hacking Conference 2018 Mohuya Chakraborty 2018-10-04 This book discusses the implications of new technologies for a secured society. As such, it reflects the main focus of the International Conference on Ethical Hacking, eHaCon 2018, which is essentially in evaluating the security of computer systems using penetration testing techniques. Showcasing the most outstanding research papers presented at the conference, the book shares new findings on computer network attacks and defenses, commercial security solutions, and hands-on, real-world security experience. The respective sections include network security, ethical hacking, cryptography, digital forensics, cloud security, information security, mobile communications security, and cyber security.

Security of Digital Image Using Hybrid Steganography Nitin Kanzariya 2013 Steganography is a technique of information security that hides secret information within seemingly harmless carrier. It is useful for transmitting the secret information over open networks. Steganalysis is a process in which a steganalyzer cracks the cover object to get the hidden data. LSB replacement is the simplest and important technique of image steganography. In this technique the bits are selected based on some criteria and the selected ones are replaced by the bits from secret information. The combination of Huffman Encoding and DCT coefficient based LSB replacement method is implemented in MATLAB and analyzed for the results obtained. Lower the information to be hidden per pixel in carrier image better the stego image can be obtained. Hence better the selection criteria and less the number of bits to alter per pixel can lead to high end result

Multidisciplinary Approach to Modern Digital Steganography Pramanik, Sabyasachi 2021-06-04 Steganography is the art of secret writing. The purpose of steganography is to hide the presence of a message from the intruder by using state-of-the-art methods, algorithms, architectures, models, and methodologies in the domains of cloud, internet of things (IoT), and the Android platform. Though security controls in cloud computing, IoT, and Android platforms are not much different than security controls in an IT environment, they might still present different types of risks to an organization than the classic IT solutions. Therefore, a detailed discussion is needed in case there is a breach in security. It is important to review the security aspects of cloud, IoT, and Android platforms related to steganography to determine how this new technology is being utilized and improved continuously to protect information digitally. The benefits and challenges, along with the current and potential developments for the future, are important keystones in this critical area of security research. Multidisciplinary Approach to Modern Digital Steganography reviews the security aspects of cloud, IoT, and Android platforms related to steganography and addresses emerging security concerns, new algorithms, and case studies in the field. Furthermore, the book presents a new approach to secure data storage on cloud infrastructure and IoT along with including discussions on optimization models and security controls that could be implemented. Other important topics include data transmission, deep learning techniques, machine learning, and both image and text stenography. This book is essential for forensic engineers, forensic analysts, cybersecurity analysts, cyber forensic examiners, security engineers, cybersecurity network analysts, cyber network defense analysts, and digital forensic examiners along with practitioners, researchers, academicians, and students interested in the latest techniques and state-of-the-art methods in digital steganography.

Internet of Things and Connected Technologies Rajiv Misra 2021-05-29 This book presents the recent research adoption of a variety of enabling wireless communication technologies like RFID tags, BLE, ZigBee, etc., and embedded sensor and actuator nodes, and various protocols like CoAP, MQTT, DNS, etc., that has made Internet of things (IoT) to step out of its infancy to become smart things. Now, smart sensors can collaborate directly with the machine without human involvement to automate decision making or to control a task. Smart technologies including green electronics, green radios, fuzzy neural approaches, and intelligent signal processing techniques play important roles in the developments of the wearable healthcare systems. In the proceedings of 5th International Conference on Internet of Things and Connected Technologies (ICIoTCT), 2020, brought out research works on the advances in the Internet of things (IoT) and connected technologies (various protocols, standards, etc.). This conference aimed at providing a forum to discuss the recent advances in enabling technologies and applications for IoT.

Advances in Communications, Computing, Networks and Security Volume 8 Paul Dowland

Soft Computing: Theories and Applications Millie Pant 2017-11-23 This book focuses on soft computing and its applications to solve real-life problems occurring in different domains ranging from medical and health care, supply chain management and image processing to cryptanalysis. It presents the proceedings of International Conference on Soft Computing: Theories and Applications (SoCTA 2016), offering significant insights into soft computing for teachers and researchers and inspiring more and more researchers to work in the field of soft computing. >The term soft computing represents an umbrella term for computational techniques like fuzzy logic, neural networks, and nature inspired algorithms. In the past few decades, there has been an exponential rise in the application of soft computing techniques for solving complex and intricate problems arising in different spheres of life. The versatility of these techniques has made them a favorite among scientists and researchers working in diverse areas. SoCTA is the first international conference being organized at Amity University Rajasthan (AUR), Jaipur. The objective of SoCTA 2016 is to provide a common platform to researchers, academicians, scientists, and industrialists working in the area of soft computing to share and exchange their views and ideas on the theory and application of soft computing techniques in multi-disciplinary areas. The aim of the conference is to bring together young and experienced researchers, academicians, scientists, and industrialists for the exchange of knowledge. SoCTA especially encourages the young researchers at the beginning of their career to participate in this conference and present their work on this platform.

Signal Conditioning Apurba Das 2012-04-27 “Signal Conditioning” is a comprehensive introduction to electronic signal processing. The book presents the mathematical basics including the implications of various transformed domain representations in signal synthesis and analysis in an understandable and lucid fashion and illustrates the theory through many applications and examples from communication systems. The ease to learn is supported by well-chosen exercises which give readers the flavor of the subject. Supplementary electronic material is available on http://extras.springer.com including MATLAB codes illuminating applications in the domain of one dimensional electrical signal processing, image processing, and speech processing. The book is an introduction for students with a basic understanding in engineering or natural sciences.

New Trends in Computational Vision and Bio-inspired Computing S. Smys 2020-09-27 This volume gathers selected, peer-reviewed original contributions presented at the International Conference on Computational Vision and Bio-inspired Computing (ICCVBIC) conference which was held in Coimbatore, India, on November 29-30, 2018. The works included here offer a rich and diverse sampling of recent developments in the fields of Computational Vision, Fuzzy, Image Processing and Bio-inspired Computing. The topics covered include computer vision; cryptography and digital privacy; machine learning and artificial neural networks; genetic algorithms and computational intelligence; the Internet of Things; and biometric systems, to name but a few. The applications discussed range from security, healthcare and epidemic control to urban computing, agriculture and robotics. In this book, researchers, graduate students and professionals will find innovative solutions to real-world problems in industry and society as a whole, together with inspirations for further research.

Proceedings of ICETIT 2019 Pradeep Kumar Singh 2019-09-23 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.

Proceedings of International Conference on Computer Vision and Image Processing Balasubramanian Raman 2016-12-22 This edited volume contains technical contributions in the field of computer vision and image processing presented at the First International Conference on Computer Vision and Image Processing (CVIP 2016). The contributions are thematically divided based on their relation to operations at the lower, middle and higher levels of vision systems, and their applications. The technical contributions in the areas of sensors, acquisition, visualization and enhancement are classified as related to low-level operations. They discuss various modern topics - reconfigurable image system architecture, Scheimpflug camera calibration, real-time autofocusing, climate visualization, tone mapping, super-resolution and image resizing. The technical contributions in the areas of segmentation and retrieval are classified as related to mid-level operations. They discuss some state-of-the-art techniques - non-rigid image registration, iterative image partitioning, egocentric object detection and video shot boundary detection. The technical contributions in the areas of classification and retrieval are categorized as related to high-level operations. They discuss some state-of-the-art approaches - extreme learning machines, and target, gesture and action recognition. A non-regularized state preserving extreme learning machine is presented for natural scene classification. An algorithm for human action recognition through dynamic frame warping based on depth cues is given. Target recognition in night vision through convolutional neural network is also presented. Use of convolutional neural network in detecting static hand gesture is also discussed. Finally, the technical contributions in the areas of surveillance, coding and data security, and biometrics and document processing are considered as applications of computer vision and image processing. They discuss some contemporary applications. A few of them are a system for tackling blind curves, a quick reaction target acquisition and tracking system, an algorithm to detect for

copy-move forgery based on circle block, a novel visual secret sharing scheme using affine cipher and image interleaving, a finger knuckle print recognition system based on wavelet and Gabor filtering, and a palmprint recognition based on minutiae quadruplets.

International Conference on Innovative Computing and Communications Deepak Gupta 2020-08-01 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 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.

Computational Intelligence in Machine Learning Amit Kumar 2022-03-03 The book includes select proceedings of the International Conference on Computational Intelligence in Machine Learning (ICCIML 2021). The book constitutes peer-reviewed papers on machine learning, computational intelligence, the internet of things, and smart city applications emphasizing multi-disciplinary research in artificial intelligence and cyber-physical systems. This book addresses the comprehensive nature of computational intelligence, artificial intelligence, machine learning, and deep learning to emphasize its character in modeling, identification, optimization, prediction, forecasting, and control of future intelligent systems. The book will be useful for researchers, research scholars, and students to formulate their research ideas and find future directions in these areas. It will help the readers to solve a diverse range of problems in industries and their real-world applications.

Cryptography: Breakthroughs in Research and Practice Management Association, Information Resources 2019-12-06 Advances in technology have provided numerous innovations that make people's daily lives easier and more convenient. However, as technology becomes more ubiquitous, corresponding risks also increase. The field of cryptography has become a solution to this ever-increasing problem. Applying strategic algorithms to cryptic issues can help save time and energy in solving the expanding problems within this field. Cryptography: Breakthroughs in Research and Practice examines novel designs and recent developments in cryptographic security control procedures to improve the efficiency of existing security mechanisms that can help in securing sensors, devices, networks, communication, and data. Highlighting a range of topics such as cyber security, threat detection, and encryption, this publication is an ideal reference source for academicians, graduate students, engineers, IT specialists, software engineers, security analysts, industry professionals, and researchers interested in expanding their knowledge of current trends and techniques within the cryptology field.

Proceedings of International Conference on Smart Computing and Cyber Security Prasant Kumar Pattnaik 2020-11-27 This book presents high-quality research papers presented at the International Conference on Smart Computing and Cyber Security: Strategic Foresight, Security Challenges and Innovation (SMARTCYBER 2020) held during July 7-8, 2020, in the Department of Smart Computing, Kyungdong University, Global Campus, South Korea. The book includes selected works from academics and industrial experts in the field of computer science, information technology, and electronics and telecommunication. The content

addresses challenges of cyber security.