

A Survey On Digital Image Steganography And Steganalysis

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4th International Conference on Internet of Things and Connected Technologies (ICIoTCT).

2019 - Neeta Nain 2020-02-14

This book presents the proceedings of the 4th

International Conference on Internet of Things and Connected Technologies (ICIoTCT), held on May 9-10, 2019, at Malaviya National Institute of Technology (MNIT), Jaipur, India. The Internet of Things (IoT) promises to usher in a revolutionary, fully interconnected “smart” world, with relationships between objects and their environment and objects and people becoming more tightly intertwined. The prospect of the Internet of Things as a ubiquitous array of devices bound to the Internet could fundamentally change how people think about what it means to be “online”. The ICIoTCT 2019 conference provided a platform to discuss advances in Internet of Things (IoT) and connected technologies, such as various protocols and standards. It also offered participants the opportunity to interact with experts through keynote talks, paper presentations and discussions, and as such stimulated research. With the recent adoption of a variety of enabling wireless communication

technologies, like RFID tags, BLE, ZigBee, embedded sensor and actuator nodes, and various protocols such as CoAP, MQTT and DNS, IoT has moved on from its infancy. Today smart sensors can collaborate directly with machines to automate decision-making or to control a task without human involvement. Further, smart technologies, including green electronics, green radios, fuzzy neural approaches, and intelligent signal processing techniques play an important role in the development of the wearable healthcare devices.

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.

Steganography Techniques for Digital Images - Abid Yahya 2018-06-12

This book covers newly developed and novel Steganography techniques and algorithms. The book outlines techniques to provide security to a variety of applications using Steganography, with the goal of both hindering an adversary

from decoding a hidden message, and also preventing an adversary from suspecting the existence of covert communications. The book looks into applying these newly designed and improved algorithms to provide a new and efficient Steganographic system, called Characteristic Region-Based Image Steganography (CR-BIS). The algorithms combine both the robustness of the Speeded-Up Robust Features technique (SURF) and Discrete Wavelet Transform (DWT) to achieve characteristic region Steganography synchronization. The book also touches on how to avoid hiding data in the whole image by dynamically selecting characteristic regions for the process of embedding. Applies and discusses innovative techniques for hiding text in a digital image file or even using it as a key to the encryption; Provides a variety of methods to achieve characteristic region Steganography synchronization; Shows how Steganography improves upon cryptography by using obscurity

features.

Information Systems Security - Venkat Venkatakrishnan 2012-12-11

This book constitutes the refereed proceedings of the 8th International Conference on Information Systems Security, ICISS 2012, held in Guwahati, India, in December 2012. The 18 revised full papers and 3 short papers presented were carefully reviewed and selected from 72 submissions. The papers are organized in topical sections on software security, access control, covert communications, network security, and database and distributed systems security.

Intelligent Innovations in Multimedia Data Engineering and Management - Bhattacharyya, Siddhartha 2018-09-07

With the ever-increasing volume of data, proper management of data is a challenging proposition to scientists and researchers, and given the vast storage space required, multimedia data is no exception in this regard. Scientists and researchers are investing great effort to discover

new space-efficient methods for storage and archiving of this data. Intelligent Innovations in Multimedia Data Engineering and Management provides emerging research exploring the theoretical and practical aspects of storage systems and computing methods for large forms of data. Featuring coverage on a broad range of topics such as binary image, fuzzy logic, and metaheuristic algorithms, this book is ideally designed for computer engineers, IT professionals, technology developers, academicians, and researchers seeking current research on advancing strategies and computing techniques for various types of data.

Information Hiding - Fabien A. P. Petitcolas
2003-01-21

This book constitutes the thoroughly refereed post-proceedings of the 5th International Workshop on Information Hiding, IH 2002, held in Noordwijkerhout, The Netherlands, in October 2002. The 27 revised full papers presented were carefully selected during two

rounds of reviewing and revision from 78 submissions. The papers are organized in topical sections on information hiding and networking, anonymity, fundamentals of watermarking, watermarking algorithms, attacks on watermarking algorithms, steganography algorithms, steganalysis, and hiding information in unusual content.

Advances in Artificial Intelligence and Security - Xingming Sun 2022-07-08

The 3-volume set CCIS 1586, CCIS 1587 and CCIS 1588 constitutes the refereed proceedings of the 8th International Conference on Artificial Intelligence and Security, ICAIS 2022, which was held in Qinghai, China, in July 2022. The total of 115 full papers and 53 short papers presented in this 3-volume proceedings was carefully reviewed and selected from 1124 submissions. The papers were organized in topical sections as follows: Part I: artificial intelligence; Part II: artificial intelligence; big data; cloud computing and security; multimedia

forensics; Part III: encryption and cybersecurity; information hiding; IoT security.

Inventive Communication and Computational Technologies - G. Ranganathan 2022-11-13

This book gathers selected papers presented at the Inventive Communication and Computational Technologies Conference (ICICCT 2022), held on May 12-13, 2022, at Gnanamani College of Technology, Tamil Nadu, India. The book covers the topics such as Internet of Things, social networks, mobile communications, big data analytics, bio-inspired computing, and cloud computing. The book is exclusively intended for academics and practitioners working to resolve practical issues in this area.

Intelligent Technologies and Applications - Imran Sarwar Bajwa 2019-03-11

This book constitutes the refereed proceedings of the First International Conference on Intelligent Technologies and Applications, INTAP 2018, held in Bahawalpur, Pakistan, in October 2018. The 68 revised full papers and 6 revised

short papers presented were carefully reviewed and selected from 251 submissions. The papers of this volume are organized in topical sections on AI and health; sentiment analysis; intelligent applications; social media analytics; business intelligence; Natural Language Processing; information extraction; machine learning; smart systems; semantic web; decision support systems; image analysis; automated software engineering.

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.

Information Security in Diverse Computing Environments - Kayem, Anne 2014-06-30

"This book provides the latest empirical research and theoretical frameworks in the area of information security, presenting research on developing sufficient security measures for new environments by discussing challenges faced by

researchers as well as unconventional solutions to these problems"--Provided by publisher.

Micro-Electronics and Telecommunication Engineering - Devendra Kumar Sharma
2020-04-02

This book presents selected papers from the 3rd International Conference on Micro-Electronics and Telecommunication Engineering, held at SRM Institute of Science and Technology, Ghaziabad, India, on 30-31 August 2019. It covers a wide variety of topics in micro-electronics and telecommunication engineering, including micro-electronic engineering, computational remote sensing, computer science and intelligent systems, signal and image processing, and information and communication technology.

Ubiquitous Communications and Network Computing - Navin Kumar 2021-07-05

This book constitutes the refereed proceedings of the 4th International Conference on Ubiquitous Communications and Network

Computing, UBCINET 2021, held in March 2021. Due to COVID-19 pandemic the conference was held virtually. The 17 full papers were selected from 59 submissions and are basically arranged in different sessions on 5G networks, millimeter wave communication systems and emerging applications; quantum communication, IoT and emerging applications; data analytics and cloud computing; artificial neural network, machine learning and emerging applications.

Digital Image and Video Watermarking and Steganography - Srinivasan Ramakrishnan
2019-09-18

Data Science and Intelligent Applications - Ketan Kotecha 2020-06-17

This book includes selected papers from the International Conference on Data Science and Intelligent Applications (ICDSIA 2020), hosted by Gandhinagar Institute of Technology (GIT), Gujarat, India, on January 24-25, 2020. The proceedings present original and high-quality

contributions on theory and practice concerning emerging technologies in the areas of data science and intelligent applications. The conference provides a forum for researchers from academia and industry to present and share their ideas, views and results, while also helping them approach the challenges of technological advancements from different viewpoints. The contributions cover a broad range of topics, including: collective intelligence, intelligent systems, IoT, fuzzy systems, Bayesian networks, ant colony optimization, data privacy and security, data mining, data warehousing, big data analytics, cloud computing, natural language processing, swarm intelligence, speech processing, machine learning and deep learning, and intelligent applications and systems. Helping strengthen the links between academia and industry, the book offers a valuable resource for instructors, students, industry practitioners, engineers, managers, researchers, and scientists alike.

Information and Communication Technology for Intelligent Systems - Suresh Chandra Satapathy
2018-12-30

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

SOME INVESTIGATIONS ON STEGANOGRAPHY TECHNIQUES - Dr. V. Nagaraj
2021-05-20

Steganography is the art of hiding and transmitting data through apparently innocuous carriers in an effort to conceal the existence of

the secret data. The Least Significant Bit (LSB) steganography that replaces the least significant bits of the host medium is a widely used technique with low computational complexity and high insertion capacity. Although it has good perceptual transparency, it is vulnerable to steganalysis which is based on statistical analysis. Many other steganography algorithms have been developed such as Discrete Cosine Transform (DCT), Discrete Wavelet Transform (DWT) and Spread Spectrum Embedding. But the insertion capacities for all the above methods were not satisfied. Therefore, developing new steganography algorithms against statistical analysis seems to be the prime requirement in steganography. The LSB insertion method is the most common and easiest method for embedding messages in an image with high capacity. However, it is detectable by statistical analysis such as RS and Chisquare analysis. Hence, researchers are still in look out for steganography techniques with

enhanced insertion capacity of secret data along with greater security and which can resist attacks. In this work, in order to enhance the embedding capacity of secret data four techniques for secret communication have been proposed. They are classified into two categories. In first category, cryptography is used along with steganography to enhance the security, while in second category only steganography is used. In the first category, two improved LSB substitution techniques have been proposed. The first technique is known as Zigzag Modulo Substitution Method in which embedding locations are Sequence based. The second technique is known as Random Modulo Substitution Method using Random Technique in LSB Steganography and user key based LSB substitution steganography for RGB images where in, RSA algorithm is used for encryption. The techniques under the first category are exclusively LSB array based. The first LSB array based technique embeds message bits into LSB

arrays of cover image by using zigzag scanning. On the other hand the Random Modulo Substitution Method embeds secret data into the different locations of cover image by using pseudo random index generator. Moreover, both these LSB array based techniques use RSA algorithm to enhance security. Histogram and Statistical analysis performed on the stego image proved that the proposed techniques can effectively resist steganalysis. Comparison of the statistical parameters like Root Mean Square (RMS), Peak Signal to Noise Ratio (PSNR) and Structural Similarity Index Matrix (SSIM) for the proposed techniques with cover image and stego image was carried out and analyzed. The Second category includes pixel value modification method and pixel value differencing method in which the embedding decision for a target pixel is taken by random technique. Data hiding by using pixel value modification with modulus function in color images guarantees that no pixel value will exceed the range 0 to 255 in stego

image. In the existing PVD embedding methods, only one secret digit was embedded for two consecutive pixels, but the proposed method embeds one secret digit in only one pixel. Proposed method on color images gives more capacity and security than the PVD methods. It also provides better visual quality of stego image. Moreover, proposed method extracts the hidden secret message efficiently without using the range tables. In existing steganography algorithms like Pixel Value Differencing (PVD) methods, the secret data are embedded into the differences of adjacent pixels. This pair wise modification mechanism in cover image increases the histogram distortion.

The SAGE Encyclopedia of the Internet - Barney Warf 2018-05-15

The Internet needs no introduction, and its significance today can hardly be exaggerated. Today, more people are more connected technologically to one another than at any other time in human existence. For a large share of

the world's people, the Internet, text messaging, and various other forms of digital social media such as Facebook have become thoroughly woven into the routines and rhythms of daily life. The Internet has transformed how we seek information, communicate, entertain ourselves, find partners, and, increasingly, it shapes our notions of identity and community. The SAGE Encyclopedia of the Internet addresses the many related topics pertaining to cyberspace, email, the World Wide Web, and social media. Entries will range from popular topics such as Alibaba and YouTube to important current controversies such as Net neutrality and cyberterrorism. The goal of the encyclopedia is to provide the most comprehensive collection of authoritative entries on the Internet available, written in a style accessible to academic and non-academic audiences alike.

Advanced Image Processing Techniques and Applications - Kumar, N. Suresh 2017-02-10
Today, the scope of image processing and

recognition has broadened due to the gap in scientific visualization. Thus, new imaging techniques have developed, and it is imperative to study this progression for optimal utilization. *Advanced Image Processing Techniques and Applications* is an essential reference publication for the latest research on digital image processing advancements. Featuring expansive coverage on a broad range of topics and perspectives, such as image and video steganography, pattern recognition, and artificial vision, this publication is ideally designed for scientists, professionals, researchers, and academicians seeking current research on solutions for new challenges in image processing.

Advances in Digital Image Processing and Information Technology - Dhinaharan Nagamalai
2011-09-14

This book constitutes the refereed proceedings of the First International Conference on Digital Image Processing and Pattern Recognition,

DPPR 2011, held in Tirunelveli, India, in September 2011. The 48 revised full papers were carefully reviewed and selected from about 400 submissions. The conference brought together leading researchers, engineers and scientists in the domain of Digital Image Processing and Pattern Recognition. The papers cover all theoretical and practical aspects of the field and present new advances and current research results in two tracks, namely: digital image processing and pattern recognition, and computer science, engineering and information technology.

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.

Emerging Trends in Expert Applications and Security - Vijay Singh Rathore 2018-11-19

The book covers current developments in the field of expert applications and security, which employ advances of next-generation communication and computational technology to shape real-world applications. It gathers selected research papers presented at the ICETEAS 2018 conference, which was held at Jaipur Engineering College and Research

Centre, Jaipur, India, on February 17-18, 2018. Key topics covered include expert applications and artificial intelligence; information and application security; advanced computing; multimedia applications in forensics, security and intelligence; and advances in web technologies: implementation and security issues.

Information and Communication Technology for Competitive Strategies (ICTCS 2021) - M. Shamim Kaiser 2022-06-09

This book contains best selected research papers presented at ICTCS 2021: Sixth International Conference on Information and Communication Technology for Competitive Strategies. The conference will be held at Jaipur, Rajasthan, India, during December 17-18, 2021. The book covers state-of-the-art as well as emerging topics pertaining to ICT and effective strategies for its implementation for engineering and managerial applications. This book contains papers mainly focused on ICT for computation, algorithms and

data analytics, and IT security. The book is presented in two volumes.

Handbook of Research on Threat Detection and Countermeasures in Network Security -

Al-Hamami, Alaa Hussein 2014-10-31

Cyber attacks are rapidly becoming one of the most prevalent issues in the world. As cyber crime continues to escalate, it is imperative to explore new approaches and technologies that help ensure the security of the online community. The Handbook of Research on Threat Detection and Countermeasures in Network Security presents the latest methodologies and trends in detecting and preventing network threats. Investigating the potential of current and emerging security technologies, this publication is an all-inclusive reference source for academicians, researchers, students, professionals, practitioners, network analysts, and technology specialists interested in the simulation and application of computer network protection.

International Conference on Intelligent Computing and Applications -

Subhransu Sekhar Dash 2017-12-28

The book is a collection of best papers presented in International Conference on Intelligent Computing and Applications (ICICA 2016) organized by Department of Computer Engineering, D.Y. Patil College of Engineering, Pune, India during 20-22 December 2016. The book presents original work, information, techniques and applications in the field of computational intelligence, power and computing technology. This volume also talks about image language processing, computer vision and pattern recognition, machine learning, data mining and computational life sciences, management of data including Big Data and analytics, distributed and mobile systems including grid and cloud infrastructure.

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.

Digital Multimedia: Concepts, Methodologies,

Tools, and Applications - Management

Association, Information Resources 2017-09-13

Contemporary society resides in an age of ubiquitous technology. With the consistent creation and wide availability of multimedia content, it has become imperative to remain updated on the latest trends and applications in this field. Digital Multimedia: Concepts, Methodologies, Tools, and Applications is an innovative source of scholarly content on the latest trends, perspectives, techniques, and implementations of multimedia technologies. Including a comprehensive range of topics such as interactive media, mobile technology, and data management, this multi-volume book is an ideal reference source for engineers, professionals, students, academics, and researchers seeking emerging information on digital multimedia.

Applications of Networks, Sensors and

Autonomous Systems Analytics - Jyotsna

Kumar Mandal 2021-11-27

This book presents high-quality research papers presented at International Conference on Applications of Networks, Sensors and Autonomous Systems Analytics (ICANSAA 2020), held during December, 11 - 12, 2020, at JIS College of Engineering, Kalyani, West Bengal, India. The major topics covered are cyber-physical systems and sensor networks, data analytics and autonomous systems and MEMS and NEMS with applications in biomedical devices. It includes novel and innovative work from experts, practitioners, scientists, and decision-makers from academia and industry.

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.

Proceedings of Third International Conference on Communication, Computing and Electronics Systems - V. Bindhu

2022-03-19

This book includes high quality research papers presented at the International Conference on Communication, Computing and Electronics Systems 2021, held at the PPG Institute of Technology, Coimbatore, India, on 28-29

October 2021. The volume focuses mainly on the research trends in cloud computing, mobile computing, artificial intelligence and advanced electronics systems. The topics covered are automation, VLSI, embedded systems, optical communication, RF communication, microwave engineering, artificial intelligence, deep learning, pattern recognition, communication networks, Internet of Things, cyber-physical systems, and healthcare informatics.

Introductory Computer Forensics - Xiaodong Lin 2018-11-10

This textbook provides an introduction to digital forensics, a rapidly evolving field for solving crimes. Beginning with the basic concepts of computer forensics, each of the book's 21 chapters focuses on a particular forensic topic composed of two parts: background knowledge and hands-on experience through practice exercises. Each theoretical or background section concludes with a series of review questions, which are prepared to test students'

understanding of the materials, while the practice exercises are intended to afford students the opportunity to apply the concepts introduced in the section on background knowledge. This experience-oriented textbook is meant to assist students in gaining a better understanding of digital forensics through hands-on practice in collecting and preserving digital evidence by completing various exercises. With 20 student-directed, inquiry-based practice exercises, students will better understand digital forensic concepts and learn digital forensic investigation techniques. This textbook is intended for upper undergraduate and graduate-level students who are taking digital-forensic related courses or working in digital forensics research. It can also be used by digital forensics practitioners, IT security analysts, and security engineers working in the IT security industry, particular IT professionals responsible for digital investigation and incident handling or researchers working in these related fields as a

reference book.

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.

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

Soft Computing and Signal Processing - V.

Sivakumar Reddy 2021-05-20

This book presents selected research papers on current developments in the fields of soft computing and signal processing from the Third International Conference on Soft Computing and Signal Processing (ICSCSP 2020). The book

covers topics such as soft sets, rough sets, fuzzy logic, neural networks, genetic algorithms and machine learning and discusses various aspects of these topics, e.g., technological considerations, product implementation and application issues.

Proceedings of the 11th International Conference on Computer Engineering and Networks - Qi Liu 2021-11-11

This conference proceeding is a collection of the papers accepted by the CENet2021 - the 11th International Conference on Computer Engineering and Networks held on October 21-25, 2021 in Hechi, China. The topics focus but are not limited to Internet of Things and Smart Systems, Artificial Intelligence and Applications, Communication System Detection, Analysis and Application, and Medical Engineering and Information Systems. Each part can be used as an excellent reference by industry practitioners, university faculties, research fellows and undergraduates as well as

graduate students who need to build a knowledge base of the most current advances and state-of-practice in the topics covered by this conference proceedings. This will enable them to produce, maintain, and manage systems with high levels of trustworthiness and complexity.

Computer Networks and Inventive Communication Technologies - S. Smys
2021-06-02

This book is a collection of peer-reviewed best selected research papers presented at 3rd International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT 2020). The book covers new results in theory, methodology, and applications of computer networks and data communications. It includes original papers on computer networks, network protocols and wireless networks, data communication technologies, and network security. The proceedings of this conference is a valuable resource, dealing with both the

important core and the specialized issues in the areas of next generation wireless network design, control, and management, as well as in the areas of protection, assurance, and trust in information security practice. It is a reference for researchers, instructors, students, scientists, engineers, managers, and industry practitioners for advance work in the area.

Computer Vision: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2018-02-02

The fields of computer vision and image processing are constantly evolving as new research and applications in these areas emerge. Staying abreast of the most up-to-date developments in this field is necessary in order to promote further research and apply these developments in real-world settings. *Computer Vision: Concepts, Methodologies, Tools, and Applications* is an innovative reference source for the latest academic material on development of computers for gaining understanding about

videos and digital images. Highlighting a range of topics, such as computational models, machine learning, and image processing, this multi-volume book is ideally designed for academicians, technology professionals, students, and researchers interested in uncovering the latest innovations in the field.

Digital Information Processing and Communications - Václav Snásel 2011-06-30

This two-volume-set (CCIS 188 and CCIS 189) constitutes the refereed proceedings of the International Conference on Digital Information Processing and Communications, ICDIPC 2011, held in Ostrava, Czech Republic, in July 2011. The 91 revised full papers of both volumes presented together with 4 invited talks were carefully reviewed and selected from 235 submissions. The papers are organized in topical sections on network security; Web applications; data mining; neural networks; distributed and parallel processing; biometrics technologies; e-learning; information ethics; image processing;

information and data management; software engineering; data compression; networks; computer security; hardware and systems; multimedia; ad hoc network; artificial intelligence; signal processing; cloud computing; forensics; security; software and systems; mobile networking; and some miscellaneous topics in digital information and communications.

Advanced Informatics for Computing

Research - Ashish Kumar Luhach 2021-06-19

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.

Advances in Automation, Signal Processing,

Instrumentation, and Control - Venkata Lakshmi Narayana Komanapalli 2021-03-04

This book presents the select proceedings of the International Conference on Automation, Signal Processing, Instrumentation and Control (i-CASIC) 2020. The book mainly focuses on emerging technologies in electrical systems, IoT-based instrumentation, advanced industrial automation, and advanced image and signal

processing. It also includes studies on the analysis, design and implementation of instrumentation systems, and high-accuracy and energy-efficient controllers. The contents of this book will be useful for beginners, researchers as well as professionals interested in instrumentation and control, and other allied fields.