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Digital-Forensics and Watermarking

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Digital Forensics And Watermarking 10th International

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Digital Forensics And Watermarking 10th International:

Digital Forensics and Watermarking Yun Qing Shi, Hyoung-Joong Kim, Fernando Perez-Gonzalez, 2012-07-16 This book constitutes the thoroughly refereed post conference proceedings of the 10th International Workshop on Digital forensics and Watermarking IWDW 2011 held in Atlantic City NJ USA during October 23 26 2011 The 37 revised full papers presented were carefully selected from 59 submissions Conference papers are organized in 6 technical sessions covering the topics of steganography and steganalysis watermarking visual cryptography forensics anti forensics fingerprinting privacy and security

Handbook of Digital Forensics of Multimedia Data and Devices, Enhanced E-Book Anthony T. S. Ho, Shujun Li, 2016-05-20 Digital forensics and multimedia forensics are rapidly growing disciplines whereby electronic information is extracted and interpreted for use in a court of law These two fields are finding increasing importance in law enforcement and the investigation of cybercrime as the ubiquity of personal computing and the internet becomes ever more apparent Digital forensics involves investigating computer systems and digital artefacts in general while multimedia forensics is a sub topic of digital forensics focusing on evidence extracted from both normal computer systems and special multimedia devices such as digital cameras This book focuses on the interface between digital forensics and multimedia forensics bringing two closely related fields of forensic expertise together to identify and understand the current state of the art in digital forensic investigation Both fields are expertly attended to by contributions from researchers and forensic practitioners specializing in diverse topics such as forensic authentication forensic triage forensic photogrammetry biometric forensics multimedia device identification and image forgery detection among many others Key features Brings digital and multimedia forensics together with contributions from academia law enforcement and the digital forensics industry for extensive coverage of all the major aspects of digital forensics of multimedia data and devices Provides comprehensive and authoritative coverage of digital forensics of multimedia data and devices Offers not only explanations of techniques but also real world and simulated case studies to illustrate how digital and multimedia forensics techniques work Includes a companion website hosting continually updated supplementary materials ranging from extended and updated coverage of standards to best practice guides test datasets and more case studies

Medical Image Watermarking Amit Kumar Singh, Basant Kumar, Ghanshyam Singh, Anand Mohan, 2017-08-11 This book presents medical image watermarking techniques and algorithms for telemedicine and other emerging applications This book emphasizes on medical image watermarking to ensure the authenticity of transmitted medical information It begins with an introduction of digital watermarking important characteristics novel applications different watermarking attacks and standard benchmark tools This book also covers spatial and transform domain medical image watermarking techniques and their merits and limitations The authors have developed improved novel watermarking techniques for telemedicine applications that offer higher robustness better perceptual quality and increased embedding capacity and secure watermark The suggested methods may

find potential applications in the prevention of patient identity theft and health data management issues which is a growing concern in telemedicine applications This book provides a sound platform for understanding the medical image watermarking paradigm for researchers in the field and advanced level students Industry professionals working in this field as well as other emerging applications demanding robust and secure watermarking will find this book useful as a reference

Cryptographic and Information Security Approaches for Images and Videos S. Ramakrishnan,2018-12-07 This book presents essential principles technical information and expert insights on multimedia security technology Illustrating the need for improved content security as the Internet and digital multimedia applications rapidly evolve it presents a wealth of everyday protection application examples in fields including Giving readers an in depth introduction to different aspects of information security mechanisms and methods it also serves as an instructional tool on the fundamental theoretical framework required for the development of advanced techniques **Multimedia Forensics** Husrev Taha Sencar,Luisa Verdoliva,Nasir Memon,2022-04-02 This book is open access Media forensics has never been more relevant to societal life Not only media content represents an ever increasing share of the data traveling on the net and the preferred communications means for most users it has also become integral part of most innovative applications in the digital information ecosystem that serves various sectors of society from the entertainment to journalism to politics Undoubtedly the advances in deep learning and computational imaging contributed significantly to this outcome The underlying technologies that drive this trend however also pose a profound challenge in establishing trust in what we see hear and read and make media content the preferred target of malicious attacks In this new threat landscape powered by innovative imaging technologies and sophisticated tools based on autoencoders and generative adversarial networks this book fills an important gap It presents a comprehensive review of state of the art forensics capabilities that relate to media attribution integrity and authenticity verification and counter forensics Its content is developed to provide practitioners researchers photo and video enthusiasts and students a holistic view of the field *Future Information Technology, Application, and Service* James (Jong Hyuk) Park,Victor C.M. Leung,Cho-Li Wang,Taeshik Shon,2012-06-05 This book is proceedings of the 7th FTRA International Conference on Future Information Technology FutureTech 2012 The topics of FutureTech 2012 cover the current hot topics satisfying the world wide ever changing needs The FutureTech 2012 is intended to foster the dissemination of state of the art research in all future IT areas including their models services and novel applications associated with their utilization The FutureTech 2012 will provide an opportunity for academic and industry professionals to discuss the latest issues and progress in this area In addition the conference will publish high quality papers which are closely related to the various theories modeling and practical applications in many types of future technology The main scope of FutureTech 2012 is as follows Hybrid Information Technology Cloud and Cluster Computing Ubiquitous Networks and Wireless Communications Multimedia Convergence Intelligent and Pervasive Applications Security and Trust Computing IT Management and Service

Bioinformatics and Bio Inspired Computing Database and Data Mining Knowledge System and Intelligent Agent Human centric Computing and Social Networks The FutureTech is a major forum for scientists engineers and practitioners throughout the world to present the latest research results ideas developments and applications in all areas of future technologies

Emerging Digital Forensics Applications for Crime Detection, Prevention, and Security Li, Chang-Tsun, 2013-05-31 The revolutionary way in which modern technologies have enabled us to exchange information with ease has led to the emergence of interdisciplinary research in digital forensics and investigations which aims to combat the abuses of computer technologies Emerging Digital Forensics Applications for Crime Detection Prevention and Security presents various digital crime and forensic disciplines that use electronic devices and software for crime prevention and detection This book provides theoretical and empirical research articles and case studies for a broad range of academic readers as well as professionals industry consultants and practitioners involved in the use design and development of techniques related to digital forensics and investigation

Digital Forensics and Forensic Investigations: Breakthroughs in Research and Practice Management Association, Information Resources, 2020-04-03 As computer and internet technologies continue to advance at a fast pace the rate of cybercrimes is increasing Crimes employing mobile devices data embedding mining systems computers network communications or any malware impose a huge threat to data security while cyberbullying cyberstalking child pornography and trafficking crimes are made easier through the anonymity of the internet New developments in digital forensics tools and an understanding of current criminal activities can greatly assist in minimizing attacks on individuals organizations and society as a whole Digital Forensics and Forensic Investigations Breakthroughs in Research and Practice addresses current challenges and issues emerging in cyber forensics and new investigative tools and methods that can be adopted and implemented to address these issues and counter security breaches within various organizations It also examines a variety of topics such as advanced techniques for forensic developments in computer and communication link environments and legal perspectives including procedures for cyber investigations standards and policies Highlighting a range of topics such as cybercrime threat detection and forensic science this publication is an ideal reference source for security analysts law enforcement lawmakers government officials IT professionals researchers practitioners academicians and students currently investigating the up and coming aspects surrounding network security computer science and security engineering

Inventive Computation and Information Technologies S. Smys, Valentina Emilia Balas, Khaled A. Kamel, Pavel Lafata, 2021-03-27 This book is a collection of best selected papers presented at the International Conference on Inventive Computation and Information Technologies ICICIT 2020 organized during 24 25 September 2020 The book includes papers in the research area of information sciences and communication engineering The book presents novel and innovative research results in theory methodology and applications of communication engineering and information technologies

Computational Science and Its Applications - ICCSA

2022 Osvaldo Gervasi, Beniamino Murgante, Eligius M. T. Hendrix, David Tanar, Bernady O. Apduhan, 2022-07-14 The eight volume set LNCS 13375 13382 constitutes the proceedings of the 22nd International Conference on Computational Science and Its Applications ICCSA 2022 which was held in Malaga Spain during July 4 7 2022 The first two volumes contain the proceedings from ICCSA 2022 which are the 57 full and 24 short papers presented in these books were carefully reviewed and selected from 279 submissions The other six volumes present the workshop proceedings containing 285 papers out of 815 submissions These six volumes includes the proceedings of the following workshops Advances in Artificial Intelligence Learning Technologies Blended Learning STEM Computational Thinking and Coding AAILT 2022 Workshop on Advancements in Applied Machine learning and Data Analytics AAMDA 2022 Advances in information Systems and Technologies for Emergency management risk assessment and mitigation based on the Resilience ASTER 2022 Advances in Web Based Learning AWBL 2022 Blockchain and Distributed Ledgers Technologies and Applications BDLTA 2022 Bio and Neuro inspired Computing and Applications BIONCA 2022 Configurational Analysis For Cities CA Cities 2022 Computational and Applied Mathematics CAM 2022 Computational and Applied Statistics CAS 2022 Computational Mathematics Statistics and Information Management CMSIM Computational Optimization and Applications COA 2022 Computational Astrochemistry CompAstro 2022 Computational methods for porous geomaterials CompPor 2022 Computational Approaches for Smart Conscious Cities CASC 2022 Cities Technologies and Planning CTP 2022 Digital Sustainability and Circular Economy DiSCE 2022 Econometrics and Multidimensional Evaluation in Urban Environment EMEUE 2022 Ethical AI applications for a human centered cyber society EthicAI 2022 Future Computing System Technologies and Applications FiSTA 2022 Geographical Computing and Remote Sensing for Archaeology GCRSArcheo 2022 Geodesign in Decision Making meta planning and collaborative design for sustainable and inclusive development GDM 2022 Geomatics in Agriculture and Forestry new advances and perspectives GeoForAgr 2022 Geographical Analysis Urban Modeling Spatial Statistics Geog An Mod 2022 Geomatics for Resource Monitoring and Management GRMM 2022 International Workshop on Information and Knowledge in the Internet of Things IKIT 2022 13th International Symposium on Software Quality ISSQ 2022 Land Use monitoring for Sustainability LUMS 2022 Machine Learning for Space and Earth Observation Data MALSEOD 2022 Building multi dimensional models for assessing complex environmental systems MES 2022 MODEls and indicators for assessing and measuring the urban settlement deVELOPMENT in the view of ZERO net land take by 2050 MOVEto0 2022 Modelling Post Covid cities MPCC 2022 Ecosystem Services nature s contribution to people in practice Assessment frameworks models mapping and implications NC2P 2022 New Mobility Choices For Sustainable and Alternative Scenarios NEMOB 2022 2nd Workshop on Privacy in the Cloud Edge IoT World PCEIoT 2022 Psycho Social Analysis of Sustainable Mobility in The Pre and Post Pandemic Phase PSYCHE 2022 Processes methods and tools towards RESilient cities and cultural heritage prone to SOD and ROD disasters RES 2022 Scientific Computing Infrastructure SCI 2022 Socio Economic and Environmental Models

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Digital Forensic Science B Suresh Shetty, Pavanchand Shetty, 2020-09-30 It is our pleasure to place before you the book *Digital Forensic Science*. This book makes up a major part of the broad specialty of Digital Forensic Science comprising mainly of tools and technologies of cyber forensic experts for their future practice. This book has been designed to merge a range of new ideas and unique works of authors from topics like fundamental principles of forensic cyber analysis and protocols and rules needed for the best digital forensics. We hope that it will be useful to practitioners of forensic medicine experts cyber experts law makers investigating authorities and undergraduate and postgraduate medical school graduates of medicine.

Adversarial Multimedia Forensics Ehsan Nowroozi, Kassem Kallas, Alireza Jolfaei, 2024-03-04 This book explores various aspects of digital forensics security and machine learning while offering valuable insights into the ever evolving landscape of multimedia forensics and data security. This book's content can be summarized in two main areas. The first area of this book primarily addresses techniques and methodologies related to digital image forensics. It discusses advanced techniques for image manipulation detection including the use of deep learning architectures to generate and manipulate synthetic satellite images. This book also explores methods for face recognition under adverse conditions and the importance of forensics in criminal investigations. Additionally, the book highlights anti forensic measures applied to photos and videos focusing on their effectiveness and trade offs. The second area of this book focuses on the broader landscape of security including the detection of synthetic human voices, secure deep neural networks (DNNs) and federated learning in the context of machine learning security. It investigates novel methods for detecting synthetic human voices using neural vocoder artifacts and it explores the vulnerabilities and security challenges of federated learning in the face of adversarial attacks. Furthermore, this book delves into the realms of linguistic steganography and steganalysis discussing the evolving techniques that utilize deep learning and natural language processing to enhance payload and detection accuracy. Overall, this book provides a comprehensive overview of the ever evolving field of digital forensics and security making it an invaluable resource for researchers and

students interested in image forensics machine learning security and information protection It equips readers with the latest knowledge and tools to address the complex challenges posed by the digital landscape Professionals working in this related field will also find this book to be a valuable resource Digital Watermarking Mohammad Ali Nematollahi,Chalee Vorakulpipat,Hamurabi Gamboa Rosales,2016-08-08 This book presents the state of the arts application of digital watermarking in audio speech image video 3D mesh graph text software natural language ontology network stream relational database XML and hardware IPs It also presents new and recent algorithms in digital watermarking for copyright protection and discusses future trends in the field Today the illegal manipulation of genuine digital objects and products represents a considerable problem in the digital world Offering an effective solution digital watermarking can be applied to protect intellectual property as well as fingerprinting enhance the security and proof of authentication through unsecured channels **Forensische Informatik** Andreas Dewald,Felix C. Freiling,2015-10-28 Unter dem Begriff forensische Informatik versteht man die Anwendung wissenschaftlicher Methoden der Informatik auf Fragen des Rechtssystems Insbesondere stellt die forensische Informatik Methoden zur gerichtsfesten Sicherung und Verwertung digitaler Spuren bereit etwa zur Untersuchung und Verfolgung von Straftaten Viele Methoden der Informatik können auf Fragen des Rechtssystems angewendet werden Die vorliegenden Ausführungen geben eine Einführung in die forensische Informatik und einen breiten Überblick über das Gebiet Das Buch richtet sich an interessierte Personen die sich in diesem Bereich mit fundiertem Hintergrundwissen ausstatten möchten *Information Hiding* Stefan Katzenbeisser,Fabien Petitcolas,2016-01-01 A successor to the popular Artech House title Information Hiding Techniques for Steganography and Digital Watermarking this comprehensive and up to date new resource gives the reader a thorough review of steganography digital watermarking and media fingerprinting with possible applications to modern communication and a survey of methods used to hide information in modern media This book explores Steganography as a means by which two or more parties may communicate using invisible or subliminal communication Steganalysis is described as methods which can be used to break steganographic communication This comprehensive resource also includes an introduction to watermarking and its methods a means of hiding copyright data in images and discusses components of commercial multimedia applications that are subject to illegal use This book demonstrates a working knowledge of watermarking's pros and cons and the legal implications of watermarking and copyright issues on the Internet *Digital Forensics and Cyber Crime* Sanjay Goel,Pavel Gladyshev,Daryl Johnson,Makan Pourzandi,Suryadipta Majumdar,2021-02-06 This book constitutes the refereed proceedings of the 11th International Conference on Digital Forensics and Cyber Crime ICDF2C 2020 held in Boston MA in October 2020 Due to COVID 19 pandemic the conference was held virtually The 11 reviewed full papers and 4 short papers were selected from 35 submissions and are grouped in topical sections on digital forensics cyber physical system Forensics event reconstruction in digital forensics emerging topics in forensics cybersecurity and digital forensics *Proceedings of International Conference*

on ICT for Sustainable Development Suresh Chandra Satapathy, Amit Joshi, Nilesh Modi, Nisarg Pathak, 2016-02-10 The two volumes of this book collect high quality peer reviewed research papers presented in the International Conference on ICT for Sustainable Development ICT4SD 2015 held at Ahmedabad India during 3 4 July 2015 The book discusses all areas of Information and Communication Technologies and its applications in field for engineering and management The main focus of the volumes are on applications of ICT for Infrastructure e Governance and contemporary technologies advancements on Data Mining Security Computer Graphics etc The objective of this International Conference is to provide an opportunity for the researchers academicians industry persons and students to interact and exchange ideas experience and expertise in the current trend and strategies for Information and Communication Technologies *IPTV Delivery Networks* Suliman Mohamed Fati, Saiful Azad, Al-Sakib Khan Pathan, 2018-04-06 A guide to the current technologies related to the delivery process for both live and on demand services within IPTV delivery networks IPTV Delivery Networks is an important resource that offers an in depth discussion to the IPTV Internet Protocol Television delivery networks for both live and on demand IPTV services This important book also includes a review of the issues and challenges surrounding the delivery of IPTV over various emerging networking and communications technologies The authors an international team of experts introduce a framework for delivery network applicable for live and video on demand services They review the fundamental issues of IPTV delivery networks and explore the QoS Quality of Service issue for IPTV delivery networks that highlights the questions of security and anomaly detection as related to quality IPTV Delivery Networks also contains a discussion of the mobility issues and next generation delivery networks This guide captures the latest available and usable technologies in the field and Explores the technologies related to delivery process for both live real time and on demand services in highly accessible terms Includes information on the history current state and future of IPTV delivery Reviews all the aspects of delivery networks including storage management resource allocation broadcasting video compression QoS and QoE Contains information on current applications including Netflix video on demand BBC iPlayer time shifted IPTV and live real time streaming Written for both researchers and industrial experts in the field of IPTV delivery networks IPTV Delivery Networks is a groundbreaking book that includes the most current information available on live and on demand IPTV services

Cyber Crime and Forensic Computing Gulshan Shrivastava, Deepak Gupta, Kavita Sharma, 2021-09-07 This book presents a comprehensive study of different tools and techniques available to perform network forensics Also various aspects of network forensics are reviewed as well as related technologies and their limitations This helps security practitioners and researchers in better understanding of the problem current solution space and future research scope to detect and investigate various network intrusions against such attacks efficiently Forensic computing is rapidly gaining importance since the amount of crime involving digital systems is steadily increasing Furthermore the area is still underdeveloped and poses many technical and legal challenges The rapid development of the Internet over the past decade appeared to have

facilitated an increase in the incidents of online attacks There are many reasons which are motivating the attackers to be fearless in carrying out the attacks For example the speed with which an attack can be carried out the anonymity provided by the medium nature of medium where digital information is stolen without actually removing it increased availability of potential victims and the global impact of the attacks are some of the aspects Forensic analysis is performed at two different levels Computer Forensics and Network Forensics Computer forensics deals with the collection and analysis of data from computer systems networks communication streams and storage media in a manner admissible in a court of law Network forensics deals with the capture recording or analysis of network events in order to discover evidential information about the source of security attacks in a court of law Network forensics is not another term for network security It is an extended phase of network security as the data for forensic analysis are collected from security products like firewalls and intrusion detection systems The results of this data analysis are utilized for investigating the attacks Network forensics generally refers to the collection and analysis of network data such as network traffic firewall logs IDS logs etc Technically it is a member of the already existing and expanding the field of digital forensics Analogously network forensics is defined as The use of scientifically proved techniques to collect fuses identifies examine correlate analyze and document digital evidence from multiple actively processing and transmitting digital sources for the purpose of uncovering facts related to the planned intent or measured success of unauthorized activities meant to disrupt corrupt and or compromise system components as well as providing information to assist in response to or recovery from these activities Network forensics plays a significant role in the security of today s organizations On the one hand it helps to learn the details of external attacks ensuring similar future attacks are thwarted Additionally network forensics is essential for investigating insiders abuses that constitute the second costliest type of attack within organizations Finally law enforcement requires network forensics for crimes in which a computer or digital system is either being the target of a crime or being used as a tool in carrying a crime Network security protects the system against attack while network forensics focuses on recording evidence of the attack Network security products are generalized and look for possible harmful behaviors This monitoring is a continuous process and is performed all through the day However network forensics involves post mortem investigation of the attack and is initiated after crime notification There are many tools which assist in capturing data transferred over the networks so that an attack or the malicious intent of the intrusions may be investigated Similarly various network forensic frameworks are proposed in the literature

ECCWS 2020 19th European Conference on Cyber Warfare and Security Dr Thaddeus Eze,Dr Lee Speakman,Dr Cyril Onwubiko,2020-06-25 These proceedings represent the work of contributors to the 19th European Conference on Cyber Warfare and Security ECCWS 2020 supported by University of Chester UK on 25 26 June 2020 The Conference Co chairs are Dr Thaddeus Eze and Dr Lee Speakman both from University of Chester and the Programme Chair is Dr Cyril Onwubiko from IEEE and Director Cyber Security Intelligence at Research Series Limited ECCWS is a well established event on the

academic research calendar and now in its 19th year the key aim remains the opportunity for participants to share ideas and meet. The conference was due to be held at University of Chester UK but due to the global Covid 19 pandemic it was moved online to be held as a virtual event. The scope of papers will ensure an interesting conference. The subjects covered illustrate the wide range of topics that fall into this important and ever growing area of research.

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