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Digital-Forensics and Watermarking

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Revised Selected Papers

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. **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 an 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 *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

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 **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 *Digital-Forensics and Watermarking* Yun-Qing Shi,Hyoung Joong Kim,Fernando Pérez-González,Isao Echizen,2016-03-30 This book constitutes revised selected papers from the 14th International Workshop on Digital Forensics and Watermarking IWDW 2015 held in Tokyo Japan in October 2015 The 35 papers presented in this volume were carefully reviewed and selected from 54 submissions The contributions are organized in topical sections named digital forensics steganography and steganalysis digital watermarking reversible data hiding and visual cryptography **Cognitive Analytics: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2020-03-06 Due to the growing use of web applications and communication devices the use of data has increased throughout various industries including business and healthcare It is necessary to develop specific software programs that can analyze and interpret large amounts of data quickly in order to ensure adequate usage and predictive results Cognitive Analytics Concepts Methodologies Tools and Applications provides emerging perspectives on the theoretical and practical aspects of data analysis tools and techniques It also examines the incorporation of pattern management as well as decision making and prediction processes through the use of data management and analysis Highlighting a range of topics such as natural language processing big data and pattern recognition this multi volume book is ideally designed for information technology professionals software developers data analysts graduate level students researchers computer engineers software engineers IT specialists and academicians *First International Workshop on Systematic Approaches to Digital Forensic Engineering* ,2005 The SADFE International Workshop is intended to further the advancement of computer forensic engineering by promoting innovative and leading edge systematic approaches to cyber crime investigation The workshop brings together top digital forensic researchers advanced tool product builders and expert law enforcement from around the world for information exchange and R D collaboration In addition to advanced digital evidence discovery gathering and correlation SADFE recognizes the value of solid digital forensic engineering processes based on both technical and legal grounds SADFE further recognizes the need of advanced forensic enabled and proactive monitoring response technologies SADFE 2005 addresses broad based innovative digital forensic engineering technology practical experience and process areas **Security, Steganography, and Watermarking of Multimedia Contents** ,2004 **Handbook of Information Security, Information Warfare, Social, Legal, and International Issues and Security Foundations** Hossein Bidgoli,2006 The Handbook of Information Security is a definitive 3 volume handbook that offers coverage of both established and cutting edge theories and developments on information and computer security The text contains 180 articles from over 200 leading experts providing the benchmark resource for information security network security information privacy and information warfare **Proceedings of the ... ACM Workshop on Digital Rights Management** ,2003 Digital Watermarking ,2005 **Information Hiding, Proceedings** ,2005 *TELSIKS* ,2003 **Proceedings of the**

2004 Multimedia and Security Workshop, Magdeburg, Germany, September 20-21, 2004 : MM&SEC'04 Jana Dittmann, Jessica Fridrich, 2004 **Progress in Cryptology**, 2005 **Transactions on Data Hiding and Multimedia Security**, 2006 *Digital-Forensics and Watermarking* Yun-Qing Shi, Hyoung Joong Kim, Fernando Pérez-González, Ching-Nung Yang, 2015-06-24 This book constitutes the thoroughly refereed post conference proceedings of the 13th International Workshop on Digital Forensics and Watermarking IWDW 2014 held in Taipei Taiwan during October 2014 The 32 full and 14 poster papers presented together with 1 keynote speech were carefully reviewed and selected from 79 submissions The papers are organized in topical sections on forensics watermarking reversible data hiding visual cryptography and steganography and steganalysis **New Techniques for Digital Watermarking** Qian Zhang, 2005

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