
Digital Watermarking And Steganography 2nd Ed The Morgan Kaufmann Series In Multimedia Information And Systems

Principles, Algorithms, and Applications

Proceedings of All India Seminar on Biomedical Engineering 2012 (AISOBE 2012)

Digital Multimedia: Concepts, Methodologies, Tools, and Applications

Genetic and Evolutionary Computing

Digital Watermarking

Concepts, Methodologies, Tools, and Applications

Fundamentals and Techniques

18th International Workshop, IWDW 2019, Chengdu, China, November 2-4, 2019,

Revised Selected Papers

Digital Forensics and Watermarking

Digital Watermarking and Steganography, Second Edition
Intelligent Techniques in Signal Processing for Multimedia Security
Conveying Side Information by Printed Media
13th International Conference, IH 2011, Prague, Czech Republic, May 18-20, 2011,
Revised Selected Papers
8th International Workshop, IWDW 2009, Guildford, UK, August 24-26, 2009,
Proceedings
Machine Learning: Concepts, Methodologies, Tools and Applications
Proceedings of ICSICCS-2018
Multimedia Information Hiding Technologies and Methodologies for Controlling Data
Digital Watermarking and Steganography
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Steganography and Watermarking
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Robust and Secured Digital Audio Watermarking
Information Hiding : Steganography & Watermarking
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Proceedings of the 2nd International Conference on Recent Trends in Machine
Learning, IoT, Smart Cities and Applications

Digital Audio Watermarking

Using a DWT-SVD-DSSS Hybrid Approach

Cloud Computing and Security

Digital-Forensics and Watermarking

16th International Workshop , IWDW 2017, Magdeburg, Germany, August 23-25, 2017, Proceedings

12th International Workshop, IWDW 2013, Auckland, New Zealand, October 1-4, 2013. Revised Selected Papers

4th International Conference, ICCCS 2018, Haikou, China, June 8-10, 2018, Revised Selected Papers, Part IV

Fundamentals and Techniques, Second Edition

Information Hiding

Concepts, Methodologies, Tools and Applications

Second International Conference, NDT 2010, Prague, Czech Republic

Proceeding of the Eighth International Conference on Genetic and Evolutionary Computing, October 18-20, 2014, Nanchang, China

Information Hiding

*Digital
Watermarking
And
Steganography
2nd Ed The
Morgan
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Series In
Multimedia
Information
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Springer

The widespread use of high-speed networks has made the global distribution of digital media contents readily available in an instant. As a result, data hiding was created in an attempt to control the distribution of these copies by verifying

or tracking the media signals picked up from copyright information, such as the author or distributor ID. Multimedia Information Hiding Technologies and Methodologies for Controlling Data presents the latest methods and research results in the emerging field of Multimedia Information Hiding (MIH). This comprehensive collection is beneficial to all researchers and engineers working globally in this field and aims to inspire new

graduate-level students as they explore this promising field. *Principles, Algorithms, and Applications* Springer This six volume set LNCS 11063 - 11068 constitutes the thoroughly refereed conference proceedings of the 4th International Conference on Cloud Computing and Security, ICCCS 2018, held in Haikou, China, in June 2018. The 386 full papers of these six volumes were carefully reviewed and selected from 1743 submissions. The papers cover ideas and

achievements in the theory and practice of all areas of inventive systems which includes control, artificial intelligence, automation systems, computing systems, electrical and informative systems. The six volumes are arranged according to the subject areas as follows: cloud computing, cloud security, encryption, information hiding, IoT security, multimedia forensics
Proceedings of All India Seminar on Biomedical Engineering 2012 (AISOB 2012) Springer

This book offers comprehensive coverage on the most important aspects of audio watermarking, from classic techniques to the latest advances, from commonly investigated topics to emerging research subdomains, and from the research and development achievements to date, to current limitations, challenges, and future directions. It also addresses key topics such as reversible audio watermarking, audio watermarking with

encryption, and imperceptibility control methods. The book sets itself apart from the existing literature in three main ways. Firstly, it not only reviews classical categories of audio watermarking techniques, but also provides detailed descriptions, analysis and experimental results of the latest work in each category. Secondly, it highlights the emerging research topic of reversible audio watermarking, including recent research trends, unique features, and the

potentials of this subdomain. Lastly, the joint consideration of audio watermarking and encryption is also reviewed. With the help of this concept, more secure audio watermarking systems can be developed, which meet the requirements for security and privacy in cloud-based networks and systems. Accordingly, the book serves as a tutorial suitable for readers with a general knowledge of audio signal processing as well as experts in related areas, helping these

readers understand the basic principles and the latest advances, concepts and applications of audio watermarking.

Digital Multimedia: Concepts, Methodologies, Tools, and Applications
Springer

A comprehensive guide to the essential principles of image processing and pattern recognition Techniques and applications in the areas of image processing and pattern recognition are growing at an unprecedented rate. Containing the latest

state-of-the-art developments in the field, Image Processing and Pattern Recognition presents clear explanations of the fundamentals as well as the most recent applications. It explains the essential principles so readers will not only be able to easily implement the algorithms and techniques, but also lead themselves to discover new problems and applications. Unlike other books on the subject, this volume presents numerous fundamental

and advanced image processing algorithms and pattern recognition techniques to illustrate the framework. Scores of graphs and examples, technical assistance, and practical tools illustrate the basic principles and help simplify the problems, allowing students as well as professionals to easily grasp even complicated theories. It also features unique coverage of the most interesting developments and updated techniques, such as image watermarking,

digital steganography, document processing and classification, solar image processing and event classification, 3-D Euclidean distance transformation, shortest path planning, soft morphology, recursive morphology, regulated morphology, and sweep morphology. Additional topics include enhancement and segmentation techniques, active learning, feature extraction, neural networks, and fuzzy logic. Featuring supplemental materials for instructors

and students, Image Processing and Pattern Recognition is designed for undergraduate seniors and graduate students, engineering and scientific researchers, and professionals who work in signal processing, image processing, pattern recognition, information security, document processing, multimedia systems, and solar physics. Genetic and Evolutionary Computing Artech House In addition to providing students, researchers, and other professionals

with mechanical information regarding digital watermarking and steganography, this work also provides them with the framework needed to develop extensive advanced algorithms. It shows how robust high-capacity watermarking techniques can be successfully used to enlarge the hiding capacity while maintaining the robustness of the watermark. Several robust algorithms are presented to illustrate the framework and provide

assistance in understanding and implementing fundamental principles. Alternatives to traditional strategies are presented. The principles taught are illustrated with plentiful graphs and examples in order to simplify the problems and make highly complicated theories readily understandable. *Digital Watermarking IGI Global* As future generation information technology (FGIT) becomes specialized and fragmented, it is easy to lose

sight that many topics in FGIT have common threads and, because of this, advances in one discipline may be transmitted to others. Presentation of recent results obtained in different disciplines encourages this interchange for the advancement of FGIT as a whole. Of particular interest are hybrid solutions that combine ideas taken from multiple disciplines in order to achieve something more significant than the sum of the individual parts.

Through such hybrid philosophy, a new principle can be discovered, which has the propensity to propagate throughout multi-faceted disciplines. FGIT 2009 was the first mega-conference that attempted to follow the above idea of hybridization in FGIT in a form of multiple events related to particular disciplines of IT, conducted by separate scientific committees, but coordinated in order to expose the most important contributions. It included the following

international conferences: Advanced Software Engineering and Its Applications (ASEA), Bio-Science and Bio-Technology (BSBT), Control and Automation (CA), Database Theory and Application (DTA), Disaster Recovery and Business Continuity (DRBC; published independently), Future Generation Communication and Networking (FGCN) that was combined with Advanced Communication and Networking (ACN), Grid and Distributed Computing (GDC), M-

multimedia, Computer Graphics and Broadcasting (MulGraB), Security Technology (SecTech), Signal Processing, Image Processing and Pattern Recognition (SIP), and e-Service, Science and Technology (UNESST).

**Concepts,
Methodologies, Tools,
and Applications**

Springer
Digital audio, video, images, and documents are flying through cyberspace to their respective owners.

Unfortunately, along the way, individuals may choose to intervene and take this content for themselves. Digital watermarking and steganography technology greatly reduces the instances of this by limiting or eliminating the ability of third parties to decipher the content that he has taken. The many techniques of digital watermarking (embedding a code) and steganography (hiding information) continue to evolve as applications

that necessitate them do the same. The authors of this second edition provide an update on the framework for applying these techniques that they provided researchers and professionals in the first well-received edition. Steganography and steganalysis (the art of detecting hidden information) have been added to a robust treatment of digital watermarking, as many in each field research and deal with the other. New material includes watermarking with side

information, QIM, and dirty-paper codes. The revision and inclusion of new material by these influential authors has created a must-own book for anyone in this profession. This new edition now contains essential information on steganalysis and steganography New concepts and new applications including QIM introduced Digital watermark embedding is given a complete update with new processes and applications
Fundamentals and

Techniques Springer
Science & Business Media
"This reference offers a wide-ranging selection of key research in a complex field of study, discussing topics ranging from using machine learning to improve the effectiveness of agents and multi-agent systems to developing machine learning software for high frequency trading in financial markets"--
Provided by publishe
18th International Workshop, IWDW 2019, Chengdu, China, November 2-4, 2019, Revised Selected

Papers Springer Science & Business Media
This book discusses digital audio watermarking copyright assurance. The author first outlines the topic of watermarking data that can be used for copyright assurance that incorporates text messages, copyright audio, handwritten text, logo and cell phone numbers. The objective of this book is to propose a new algorithm that can embed and extract the watermarking information. The execution of the newly

proposed algorithm is surveyed by testing data utilizing a group of various audio file types and against various attacks. The book also presents a new digital watermark algorithm that preserves the copyright property of the audio files. To do this, the author uses two techniques -- DWT and SVD -- with the combination of other techniques (DFT and DSSS) to enhance security and also provide high robustness and imperceptibility against various malicious attacks.

Digital Forensics and Watermarking Digital Watermarking and Steganography 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. [Digital Watermarking and Steganography, Second Edition](#) IGI Global

Privacy and Copyright protection is a very important issue in our digital society, where a very large amount of multimedia data are generated and distributed daily using different kinds of consumer electronic devices and very popular communication channels, such as the Web and social networks. This book "Steganography and Watermarking" introduces state-of-the-art technology on data hiding and copyright protection of digital images, and offers a solid basis for

future study and research. Steganographic technique overcomes the traditional cryptographic approach, providing new solutions for secure data transmission without raising users' malicious intention. In steganography, some secret information can be inserted into the original data in imperceptible and efficient ways to avoid distortion of the image, and enhance the embedding capacity, respectively. Digital watermarking also adopts data hiding techniques for

copyright protection and tampering verification of multimedia data. In watermarking, an illegitimate copy can be recognized by testing the presence of a valid watermark and a dispute on the ownership of the image resolved. Different kinds of steganographic and watermarking techniques, providing different features and diverse characteristics, have been presented in this book. This book provides a reference for theoretical problems as well as practical solutions

and applications for steganography and watermarking techniques. In particular, both the academic community (graduate student, post-doc and faculty) in Electrical Engineering, Computer Science, and Applied Mathematics; and the industrial community (engineers, engineering managers, programmers, research lab staff and managers, security managers) will find this book interesting. *Intelligent Techniques in Signal Processing for Multimedia Security*

Springer Science & Business Media

The book presents the latest advances and research findings in the fields of computational science and communication. The areas covered include smart innovation; systems and technologies; embedded knowledge and intelligence; innovation and sustainability; advanced computing; and networking and informatics. It also focuses on the knowledge-transfer methodologies and the

innovation strategies employed to make these effective. This fascinating compilation appeals to researchers, academics and engineers around the globe.

Conveying Side Information by Printed Media IGI Global

This book contains the thoroughly refereed post-conference proceedings of the 13th Information Hiding Conference, IH 2011, held in Prague, Czech Republic, in May 2011. Included in this volume are 23 carefully reviewed papers that

were selected out of 69 submissions. The contributions are organized in topical sections on: fingerprinting, anonymity and privacy, steganography and steganalysis, watermarking, digital rights management and digital forensics, and digital hiding in unusual context. Also included are the papers that were presented as part of the special session dedicated to the BOSS (Break Our Steganographic System) contest.

**13th International
Conference, IH 2011,
Prague, Czech
Republic, May 18-20,
2011, Revised Selected
Papers** John Wiley & Sons

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. 8th International Workshop, IWDW 2009, Guildford, UK, August 24-26, 2009, Proceedings Springer

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.
Machine Learning: Concepts, Methodologies, Tools and Applications
 Springer Science & Business Media
 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.
Proceedings of

ICSICCS-2018 Springer
The 22 full papers and 12 shorts papers presented in this volume were carefully reviewed and selected from 70 submissions. The contributions are covering the following topics: deep learning for multimedia security; digital forensics and anti-forensics; digital watermarking; information hiding; steganography and steganalysis; authentication and security.
Multimedia Information Hiding Technologies and

Methodologies for Controlling Data Artech House
"This book provides solutions to these challenges, practices and understanding of contemporary theories and empirical analysis for systems engineering in a way that achieves service excellence"--Provided by publisher.
[Digital Watermarking and Steganography](#) IGI Global
This book presents covert, semi-covert and overt techniques for communication over printed media by

modifying images, texts or barcodes within the document. Basic and advanced techniques are discussed aimed to modulate information into images, texts and barcodes. Conveying information over printed media can be useful for content authentication, author copyright, information and piracy product deterrent, side information for marketing, among other applications. Practical issues are discussed and experiments are provided to evaluate competitive

approaches for hard-copy communication. This book is a useful resource for researchers, practitioners and graduate students in the field of hard-copy communication by providing the fundamentals, basic and advanced techniques as examples of approaches to address the hard-copy media distortions and particularities.

Fundamentals and Techniques CRC Press

This book constitutes the thoroughly refereed post-proceedings of the 12th

International Workshop on Digital-Forensics and Watermarking, IWDW 2013, held in Auckland, New Zealand, during October 2013. The 24 full and 13 poster papers, presented together with 2 abstracts, were carefully reviewed and selected from 55 submissions. The papers are organized in topical sections on steganography and steganalysis; visual cryptography; reversible data hiding; forensics; watermarking; anonymizing and plate recognition.

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