



# DIGITAL MEDIA STEGANOGRAPHY

PRINCIPLES, ALGORITHMS, AND ADVANCES

EDITED BY  
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# Steganography In Digital Media Principles Algorithms And Applications

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## **Steganography In Digital Media Principles Algorithms And Applications:**

Steganography in Digital Media Jessica Fridrich,2010 Understand the building blocks of covert communication in digital media and apply the techniques in practice with this self contained guide      **Steganography in Digital Media** Jessica Fridrich,2009 Understand the building blocks of covert communication in digital media and apply the techniques in practice with this self contained guide      **Steganography in Digital Media** Jessica Fridrich,2014-05-14 Understand the building blocks of covert communication in digital media and apply the techniques in practice with this self contained guide

*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      Machine Learning Methods for Signal, Image and Speech Processing M.A. Jabbar,MVV Prasad Kantipudi,Sheng-Lung Peng,Mamun Bin Ibne Reaz,Ana Maria Madureira,2022-09-01 The signal processing SP landscape has been enriched by recent advances in artificial intelligence AI and machine learning ML yielding new tools for signal estimation classification prediction and manipulation Layered signal representations nonlinear function approximation and nonlinear signal prediction are now feasible at very large scale in both dimensionality and data size These are leading to significant performance gains in a variety of long standing problem domains like speech and Image analysis As well as providing the ability to construct new classes of nonlinear functions e g fusion nonlinear filtering This book will help academics researchers developers graduate and undergraduate students to comprehend complex SP data across a wide range of topical application areas such as social multimedia data collected from social media networks medical imaging data data from Covid tests etc This book focuses on AI utilization in the speech image communications and virtual reality domains      **Handbook of Communications Security** F. Garzia,2013 Communications represent a strategic sector for privacy protection and for personal company national and international security The interception damage or lost of information during communication can generate material and non material economic damages

from both a personal and collective point of view The purpose of this book is to give the reader information relating to all aspects of communications security beginning at the base ideas and building to reach the most advanced and updated concepts The book will be of interest to integrated system designers telecommunication designers system engineers system analysts security managers technicians intelligence personnel security personnel police army private investigators scientists graduate and postgraduate students and anyone that needs to communicate in a secure way

**Computational Science and Computational Intelligence** Hamid R. Arabnia, Leonidas Deligiannidis, Farzan Shenavarmasouleh, Soheyla Amirian, Farid Ghareh Mohammadi, 2025-09-12 This CCIS book constitutes selected papers accepted in the Research Track on Computational Science and the Research Track on Computational Intelligence held as part of the 11th International Conference on Computational Science and Computational Intelligence CSCI 2024 which took place in Las Vegas NV USA during December 11-13 2024 The 24 full papers included in this book were carefully reviewed and selected from a total of 78 submissions The Research Track on Computational Science CSCI RTSC received 78 submissions of which 17 papers were accepted 16 of these are included in this volume For the Research Track on Computational Intelligence CSCI RTCI 10 papers were accepted from 59 submissions The contributions were organized in topical sections on Computational Science Frameworks Applications and Algorithms Computational Science Mathematics Simulation Performance Studies Optimization and Programming and Computational Intelligence Optimization Applications and Algorithms

*ManusCrypt* Prashant A Upadhyaya, 2024-11-29 Information security primarily serves these six distinct purposes authentication authorization prevention of data theft sensitive data safety privacy data protection integrity non repudiation The entire gamut of infosec rests upon cryptography The author begins as a protagonist to explain that modern cryptography is more suited for machines rather than humans This is explained through a brief history of ciphers and their evolution into cryptography and its various forms The premise is further reinforced by a critical assessment of algorithm based modern cryptography in the age of emerging technologies like artificial intelligence and blockchain With simple and lucid examples the author demonstrates that the hypothetical man versus machine scenario is not by chance but by design The book doesn't end here like most others that wind up with a sermon on ethics and eventual merging of humans with technology i.e. singularity A very much practicable solution has been presented with a real world use case scenario wherein infosec is designed around the needs biases flaws and skills of humans This innovative approach as trivial as it may seem to some has the power to bring about a paradigm shift in the overall strategy of information technology that can change our world for the better

*Multimedia Information Hiding Technologies and Methodologies for Controlling Data* Kondo, Kazuhiro, 2012-10-31 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 **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 Industry 4.0 Interoperability, Analytics, Security, and Case Studies G. Rajesh,X. Mercilin Raajini,Hien Dang,2021-01-30 All over the world vast research is in progress on the domain of Industry 4 0 and related techniques Industry 4 0 is expected to have a very high impact on labor markets global value chains education health environment and many social economic aspects Industry 4 0 Interoperability Analytics Security and Case Studies provides a deeper understanding of the drivers and enablers of Industry 4 0 It includes real case studies of various applications related to different fields such as cyber physical systems CPS Internet of Things IoT cloud computing machine learning virtualization decentralization blockchain fog computing and many other related areas Also discussed are interoperability design and implementation challenges Researchers academicians and those working in industry around the globe will find this book of interest FEATURES Provides an understanding of the drivers and enablers of Industry 4 0 Includes real case studies of various applications for different fields Discusses technologies such as cyber physical systems CPS Internet of Things IoT cloud computing machine learning virtualization decentralization blockchain fog computing and many other related areas Covers design implementation challenges and interoperability Offers detailed knowledge on Industry 4 0 and its underlying technologies research challenges solutions and case studies Emerging Trends in IoT and Computing Technologies Suman Lata Tripathi,Devendra Agarwal,Anita Pal,Yusuf Perwej,2024-08-29 Second International Conference on Emerging Trends in IOT and Computing Technologies ICEICT 2023 is organised with a vision to address the various issues to promote the creation of intelligent solution for the future It is expected that researchers will bring new prospects for collaboration across disciplines and gain ideas facilitating novel concepts Second International Conference of Emerging Trends in IoT and Computer Technologies ICEICT 2023 is an inventive event organised in Goel Institute of Technology and Management Lucknow India with motive to make available an open International forum for the researches academicians technocrats scientist engineers industrialist and students around the globe to exchange their innovations and share the research

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