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Intelligent Multimedia Data Hiding

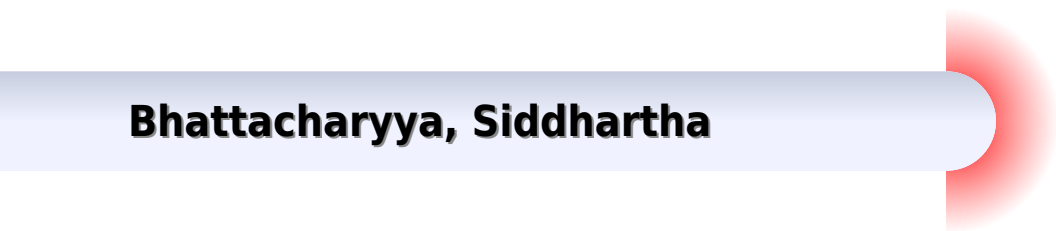
New Directions



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Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence

Bhattacharyya, Siddhartha



Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence:

Intelligent Multimedia Data Hiding Hsiang-Cheh Huang, Wai-Chi Fang, 2007-04-25 This book lays out all the latest research in the area of multimedia data hiding The book introduces multimedia signal processing and information hiding techniques It includes multimedia representation digital watermarking fundamentals and requirements of watermarking It moves on to cover the recent advances in multimedia signal processing before presenting information hiding techniques including steganography secret sharing and watermarking The final part of this book includes practical applications of intelligent multimedia signal processing and data hiding systems

Multimedia Services in Intelligent Environments

George A. Tsihrintzis, Maria Virvou, Lakhmi C. Jain, 2013-05-23 Multimedia services are now commonly used in various activities in the daily lives of humans Related application areas include services that allow access to large depositories of information digital libraries e learning and e education e government and e governance e commerce and e auctions e entertainment e health and e medicine and e legal services as well as their mobile counterparts i e m services Despite the tremendous growth of multimedia services over the recent years there is an increasing demand for their further development This demand is driven by the ever increasing desire of society for easy accessibility to information in friendly personalized and adaptive environments In this book at hand we examine recent Advances in Recommender Systems Recommender systems are crucial in multimedia services as they aim at protecting the service users from information overload The book includes nine chapters which present various recent research results in recommender systems This research book is directed to professors researchers application engineers and students of all disciplines who are interested in learning more about recommender systems advancing the corresponding state of the art and developing recommender systems for specific applications

Digital Rights Management for E-Commerce Systems Drossos, Lambros, Tsolis, Dimitrios, Sioutas, Spyros, Papatheodorou, Theodore, 2008-10-31 This book highlights innovative technologies used for the design and implementation of advanced e commerce systems facilitating digital rights management and protection Provided by publisher

New Directions in Intelligent Interactive Multimedia George A Tsihrintzis, Maria Virvou, 2008-09-09 This book summarizes the works and new research results presented at the First International Symposium on Intelligent Interactive Multimedia Systems and Services KES IIMSS 2008 organized by the University of Piraeus and its Department of Informatics in conjunction with KES International Piraeus Greece July 9 11 2008 The aim of the symposium was to provide an internationally respected forum for scientific research into the technologies and applications of intelligent interactive multimedia systems and services Besides the Preface the book contains sixty four 64 chapters The first four 4 chapters in the book are printed versions of the keynote addresses of the invited speakers of KES IIMSS 2008 Besides the invited speaker chapters the book contains fifteen 15 chapters on recent Advances in Multimedia Data Analysis eleven 11 chapters on Reasoning Approaches nine 9 chapters on Infrastructure of Intelligent Interactive Multimedia Systems and Services fourteen

14 chapters on Multimedia Applications and eleven 11 chapters on Quality of Interactive Multimedia Services

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 and Applications

Hsiang-Cheh Huang, 2009-07-11 Information hiding is an area of great interest due to its applications in copyright protection of images data passport control CDs DVDs videos and so on This book presents a sample of recent research results from key researchers The contributions include Copyright protection system Video watermarking Restoring objects for digital inpainting Data embedding scheme Robust image watermarking Perceptual shaping in digital watermarking Image authentication method under JPEG Fingerprinting for copyright protection Data hiding for halftone images Information hiding for digital watermarking This book is directed to the application engineers researchers graduate students professors and to those who are interested to investigate the information hiding techniques and use them in various applications such as copyright protection of images data passport control CDs DVDs videos and so on

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

Intelligent Techniques in Signal Processing for Multimedia Security Nilanjan Dey, V. Santhi, 2016-10-18 This book proposes new algorithms to ensure secured communications and prevent unauthorized data exchange in secured multimedia systems Focusing on numerous applications algorithms and scenarios it offers an in depth analysis of data hiding technologies including watermarking cryptography encryption copy control and authentication The authors present a framework for visual data hiding technologies that resolves emerging problems of modern multimedia applications in several contexts including the medical healthcare education and wireless communication networking domains Further it introduces several intelligent security techniques with real time implementation As part of its comprehensive coverage the book

discusses contemporary multimedia authentication and fingerprinting techniques while also proposing personal authentication recognition systems based on hand images surveillance system security using gait recognition face recognition under restricted constraints such as dry wet face conditions and three dimensional face identification using the approach developed here This book equips perception technology professionals with the latest technologies techniques and strategies for multimedia security systems offering a valuable resource for engineers and researchers working to develop security systems

Computational Intelligence in Flow Shop and Job Shop Scheduling Uday K. Chakraborty, 2009-09-16 For over fifty years now the famous problem of flow shop and job shop scheduling has been receiving the attention of researchers in operations research engineering and computer science Over the past several years there has been a spurt of interest in computational intelligence heuristics and metaheuristics for solving this problem This book seeks to present a study of the state of the art in this field and also directions for future research

Recent Advances in Multimedia Signal Processing and Communications Mislav Grgic, Kresimir Delac, Mohammed Ghanbari, 2009-10-14 The rapid increase in computing power and communication speed coupled with computer storage facilities availability has led to a new age of multimedia applications This book presents recent advances in Multimedia Signal Processing and Communications

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Table of Contents Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence

1. Understanding the eBook Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
 - The Rise of Digital Reading Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
 - Advantages of eBooks Over Traditional Books
2. Identifying Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
 - User-Friendly Interface
4. Exploring eBook Recommendations from Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
 - Personalized Recommendations

- Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence User Reviews and Ratings
- Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence and Bestseller Lists
- 5. Accessing Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence Free and Paid eBooks
 - Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence Public Domain eBooks
 - Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence eBook Subscription Services
 - Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence Budget-Friendly Options
- 6. Navigating Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence eBook Formats
 - ePub, PDF, MOBI, and More
 - Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence Compatibility with Devices
 - Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
 - Highlighting and Note-Taking Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
 - Interactive Elements Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
- 8. Staying Engaged with Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
- 9. Balancing eBooks and Physical Books Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
 - Benefits of a Digital Library

- Creating a Diverse Reading Collection Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
 - Setting Reading Goals Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
 - Fact-Checking eBook Content of Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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