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# Intelligent Multimedia Data Hiding

New Directions



Springer

# Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence

**Carlos Coello Coello, Satchidananda  
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## **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

**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

**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

**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

**Aspects of Soft Computing, Intelligent Robotics and Control** János Fodor, 2009-10-13 Soft computing as a collection of techniques exploiting approximation and tolerance for imprecision and uncertainty in traditionally intractable problems has become very effective and popular especially because of the synergy derived from its components The integration of constituent technologies provides complementary methods that allow developing flexible computing tools and solving complex problems A wide area of natural applications of soft computing techniques consists of the control of dynamic systems including robots Loosely speaking control can be understood as driving a process to attain a desired goal Intelligent control can be seen as an extension of this concept to include autonomous human like interactions of

a machine with the environment Intelligent robots can be characterized by the ability to operate in an uncertain changing environment with the help of appropriate sensing They have the power to autonomously plan and execute motion sequences to achieve a goal specified by a human user without detailed instructions In this volume leading specialists address various theoretical and practical aspects in soft computing intelligent robotics and control The problems discussed are taken from fuzzy systems neural networks interactive evolutionary computation intelligent mobile robotics and intelligent control of linear and nonlinear dynamic systems

**Intelligent Distributed Computing III** George Angelos Papadopoulos, Costin Badica, 2009-08-18 This book represents the peer reviewed proceedings of the Third International Symposium on Intelligent Distributed Computing IDC 2009 held in Ayia Napa Cyprus during October 13 14 2009 The 36 contributions in this book address many topics related to theory and applications of intelligent distributed computing including actor agent systems agentbased simulation autonomic computing computational service economies defeasible reasoning distributed data mining distributed logic programming e learning emergent properties in complex systems formal methods of intelligent distributed systems genetic and evolutionary algorithms information retrieval knowledge fusion multi sensor networks mobile ad hoc networks mobile computing ontologies and metadata peer to peer networks process modeling and integration remote sensing distributed systems secure e payment systems social networks surveillance and disaster management applications swarm computing Web services and systems

*Computational Intelligence in Flow Shop and Job Shop Scheduling* Uday K. Chakraborty, 2009-09-30 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

Intelligent Collaborative e-Learning Systems and Applications Thanasis Daradoumis, Santi Caballé, Joan Manuel Marquès, Fatos Xhafa, 2009-10-01 Intelligent Collaborative e Learning Systems and Applications is a major research theme in CSCL and CSCW research community It comprises a variety of research topics that focus on developing systems that are more powerful and flexible and also more adaptable to the learning process and thus provide better answers to the paradigmatic principles of on line collaborative learning and work The chapters collected in this book provide new insights findings and approaches both on the analysis and the development of more powerful e collaboration settings Researchers will find in this book the latest trends in these research topics On the other hand academics will find practical insights on how to use conceptual and experimental approaches in their daily tasks Finally developers from CSCL community can be inspired and put in practice the proposed models and evaluate them for the specific purposes of their own work and context

**Emotional Intelligence** Aruna Chakraborty, Amit Konar, 2009-09-16 Emotional Intelligence is a new discipline of knowledge dealing with modeling recognition and control of human emotions The book Emotional Intelligence A Cybernetic Approach to the best of the authors

knowledge is a first comprehensive text of its kind that provides a clear introduction to the subject in a precise and insightful writing style. It begins with a philosophical introduction to Emotional Intelligence and gradually explores the mathematical models for emotional dynamics to study the artificial control of emotion using music and videos and also to determine the interactions between emotion and logic from the points of view of reasoning. The later part of the book covers the chaotic behavior of existing emotions under certain conditions of emotional dynamics. Finally, the book attempts to cluster emotions using electroencephalogram signals and demonstrates the scope of application of emotional intelligence in several engineering systems such as human machine interfaces, psychotherapy, user assistance systems and many others. The book includes ten chapters. Chapter 1 provides an introduction to the subject from a philosophical and psychological standpoint. It outlines the fundamental causes of emotion arousal and typical characteristics of the phenomenon of an emotive experience. The relation between emotion and rationality of thoughts is also introduced here. Principles of natural regulation of emotions are discussed in brief and the biological basis of emotion arousal using an affective neuroscientific model is introduced next.

Intelligent Computer Graphics 2009 Dimitri Plemenos, Georgios Miaoulis, 2009-10-13. The purpose of this volume is to present current work of the Intelligent Computer Graphics community, a community growing up year after year. This volume is a kind of continuation of the previously published Springer volume *Artificial Intelligence Techniques for Computer Graphics*. Nowadays, intelligent techniques are more and more used in Computer Graphics in order not only to optimise the processing time but also to find more accurate solutions for a lot of Computer Graphics problems than with traditional methods. What are intelligent techniques for Computer Graphics? Mainly, they are techniques based on Artificial Intelligence. So, problem resolution, especially constraint satisfaction techniques as well as evolutionary techniques, are used in Declarative scene Modelling, heuristic search techniques as well as strategy games techniques are currently used in scene understanding and in virtual world exploration, multi-agent techniques and evolutionary algorithms are used in behavioural animation and so on. However, even if in most cases the used intelligent techniques are due to Artificial Intelligence, sometimes simple human intelligence can find interesting solutions in cases where traditional Computer Graphics techniques, even combined with Artificial Intelligence, cannot propose any satisfactory solution. A good example of such a case is the one of scene understanding in the case where several parts of the scene are impossible to access.

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

**Swarm Intelligence for Multi-objective Problems in Data Mining** Carlos Coello Coello, Satchidananda Dehuri, Susmita Ghosh, 2009-10-01 The purpose of this book is to collect contributions that are at the intersection of multi objective optimization swarm intelligence specifically particle swarm optimization and ant colony optimization and data mining

**Cognitive Techniques in Visual Data Interpretation** Lidia Ogiela, 2009-07-10 The extremely rapid progress of science dealing with the design of new computer systems and the development of intelligent algorithmic solutions for solving complex problems has become apparent also in the field of computational intelligence and cognitive informatics methods The progress of these new branches of informatics has only started a few years ago but they are already making a very significant contribution to the development of modern technologies and also forming the foundations for future research on building an artificial brain and systems imitating human thought processes We are already able to build robots with basic machine intelligence which can sometimes perform complex actions and also cope by adapting to changing conditions of their surroundings This very impressive development of intelligent systems is manifested in the creation of robotic devices which use artificial intelligence algorithms in their operations moments when solving difficult problems or communicating with humans It is also evidenced by the introduction of new methods of reasoning about and interpreting objects or events surrounding the system One of the fields in which the need to deploy such modern solutions is obvious are cognitive vision systems used both in mobile robots and in computer systems which recognise or interpret the meaning of recorded signals or patterns

**Web Personalization in Intelligent Environments** Giovanna Castellano, Anna Maria Fanelli, 2009-09-30 At first sight the concept of web personalization looks deceptively simple A web personalization system is a software component that collects information on visitors to a web site and leverages this knowledge to deliver them the right content tailoring presentation to the user's needs All over the world web designers and web content managers rely on web personalization solutions to improve the effectiveness and ability of their web based applications Still the scientific foundation of web personalization remains a controversial issue Practitioners know very well that when properly implemented personalization delivers a much better user experience but when it is poorly implemented personalization may backfire and even distract the user's attention away from some useful and costly to develop enriched content In other words tailoring content and varying it routinely may make a site more attractive but an unstable site look can have a negative impact on the overall message Everybody seems to agree that this is a real danger but there are

specific questions that are much harder to answer convincingly

**Innovations in Neural Information Paradigms and Applications** Monica Bianchini, Marco Maggini, Franco Scarselli, 2009-10-13 Tremendous advances in all disciplines including engineering science health care business avionics management and so on can also be attributed to the development of artificial intelligence paradigms In fact researchers are always interested in designing machines which can mimic the human behaviour in a limited way Therefore the study of neural information processing paradigms have generated great interest among researchers in that machine learning borrowing features from human intelligence and applying them as algorithms in a computer friendly way involves not only Mathematics and Computer Science but also Biology Psychology Cognition and Philosophy among many other disciplines Generally speaking computers are fundamentally well suited for performing automatic computations based on fixed programmed rules i.e. in facing efficiently and reliably monotonous tasks often extremely time consuming from a human point of view Nevertheless unlike humans computers have troubles in understanding specific situations and adapting to new working environments Artificial intelligence and in particular machine learning techniques aim at improving computers behaviour in tackling such complex tasks On the other hand humans have an interesting approach to problem solving based on abstract thought high level deliberative reasoning and pattern recognition Artificial intelligence can help us understanding this process by recreating it then potentially enabling us to enhance it beyond our current capabilities

**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

Applications of Supervised and Unsupervised Ensemble Methods Oleg Okun, 2009-10-06 Expanding upon presentations at last year's SUEMA Supervised and Unsupervised Ensemble Methods and Applications meeting this volume explores recent developments in the field Useful examples act as a guide for practitioners in computational intelligence



## Reviewing **Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Intelligent Multimedia Data Hiding New Directions Studies In Computational Intelligence**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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