

Series on Innovative Intelligence – Vol. 7



Intelligent Watermarking Techniques

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Intelligent Watermarking Techniques

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**Hsiang-Cheh Huang, Jeng-Shyang
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Intelligent Watermarking Techniques Intelligent Watermarking Techniques:

Intelligent Watermarking Techniques (With Cd-rom) Peter Jeng-shyang Pan, Hsiang-cheh Huang, Lakhmi C Jain, 2004-02-06 Watermarking techniques involve the concealment of information within a text or images and the transmission of this information to the receiver with minimum distortion. This is a very new area of research. The techniques will have a significant effect on defence, business, copyright protection and other fields where information needs to be protected at all costs from attackers. This book presents the recent advances in the theory and implementation of watermarking techniques. It brings together for the first time the successful applications of intelligent paradigms including comparisons with conventional methods in many areas. The accompanying CD Rom provides readers with source codes and executables to put into practice general topics in watermarking. **Intelligent Watermarking Techniques** will be of great value to undergraduate and postgraduate students in many disciplines including engineering and computer science. It is also targeted at researchers, scientists and engineers.

Intelligent Watermarking Techniques Hsiang-Cheh Huang, Jeng-Shyang Pan, L. C. Jain, 2004 Watermarking techniques involve the concealment of information within a text or images and the transmission of this information to the receiver with minimum distortion. This is a very new area of research. The techniques will have a significant effect on defence, business, copyright protection and other fields where information needs to be protected at all costs from attackers. This book presents the recent advances in the theory and implementation of watermarking techniques. It brings together for the first time the successful applications of intelligent paradigms including comparisons with conventional methods in many areas. The accompanying CD Rom provides readers with source codes and executables to put into practice general topics in watermarking. Intelligent Watermarking Techniques, 2004

Innovations in Digital Watermarking Techniques Feng-Hsing Wang, 2009-09-21 Information security and copyright protection are more important today than before. Digital watermarking is one of the widely used techniques used in the world in the area of information security. This book introduces a number of digital watermarking techniques and is divided into four parts. The first part introduces the importance of watermarking techniques and intelligent technology. The second part includes a number of watermarking techniques. The third part includes the hybrid watermarking techniques and the final part presents conclusions. This book is directed to students, professors, researchers and application engineers who are interested in the area of information security.

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

Multimedia Security: Steganography and Digital Watermarking Techniques for Protection of Intellectual Property Lu, Chun-Shien, 2004-07-31 Multimedia security has become a major research topic yielding numerous academic papers in addition to many watermarking related companies In this emerging area there are many

challenging research issues that deserve sustained study towards an effective and practical system This book explores the myriad of issues regarding multimedia security including perceptual fidelity analysis image audio and 3D mesh object watermarking medical watermarking error detection authentication and concealment fingerprinting digital signature and digital right management

Digital Audio Watermarking Techniques and Technologies: Applications and Benchmarks Cvejic, Nedeljko, Seppänen, Tapio, 2007-08-31 Presents digital audio watermarking as a new and alternative method to enforce intellectual property rights and protect digital audio from tampering Provides theoretical frameworks recent research findings and practical applications

Computational Intelligence and Security Yue Hao, Jiming Liu, Yuping Wang, Yiu-ming Cheung, Hujun Yin, Licheng Jiao, Jianfeng Ma, Yong-Chang Jiao, 2006-06-18 The two volume set LNAI 3801 and LNAI 3802 constitute the refereed proceedings of the annual International Conference on Computational Intelligence and Security CIS 2005 held in Xi an China in December 2005 The 338 revised papers presented 254 regular and 84 extended papers were carefully reviewed and selected from over 1800 submissions The first volume is organized in topical sections on learning and fuzzy systems evolutionary computation intelligent agents and systems intelligent information retrieval support vector machines swarm intelligence data mining pattern recognition and applications The second volume is subdivided in topical sections on cryptography and coding cryptographic protocols intrusion detection security models and architecture security management watermarking and information hiding web and network applications image and signal processing and applications

Computational Intelligence in Pattern Recognition Asit Kumar Das, Janmenjoy Nayak, Bighnaraj Naik, Soumen Kumar Pati, Danilo Pelusi, 2019-08-17 This book presents practical development experiences in different areas of data analysis and pattern recognition focusing on soft computing technologies clustering and classification algorithms rough set and fuzzy set theory evolutionary computations neural science and neural network systems image processing combinatorial pattern matching social network analysis audio and video data analysis data mining in dynamic environments bioinformatics hybrid computing big data analytics and deep learning It also provides innovative solutions to the challenges

in these areas and discusses recent developments

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 Information and Business Intelligence Xilong Qu, Chenguang Yang, 2012-04-25 This two volume set CCIS 267 and CCIS 268 constitutes the refereed proceedings of the International Conference on Information and Business Intelligence IBI 2011 held in Chongqing China in December 2011 The 229 full papers presented were carefully reviewed and selected from 745 submissions The papers address topics such as communication systems accounting and agribusiness information education and educational technology manufacturing engineering multimedia convergence security and trust computing business teaching and education international business and marketing economics and finance and control systems and digital convergence *Improving Information Security Practices through Computational Intelligence* Awad, Wasan Shaker, 2015-08-26 The recent explosion in complex global networking architectures has spurred a concomitant rise in the need for robust information security Further as computing power increases exponentially with every passing year so do the number of proposed cryptographic schemata for improving and ensuring the encryption integrity of cutting edge infosec protocols Improving Information Security Practices through Computational Intelligence presents an overview of the latest and greatest research in the field touching on such topics as cryptology stream ciphers and intrusion detection and providing new insights to an audience of students teachers and entry level researchers working in computational intelligence information security and security engineering

Data Intelligence and Cognitive Informatics I. Jeena Jacob, Selwyn Piramuthu, Przemyslaw Falkowski-Gilski, 2024-01-06 The book is a collection of peer reviewed best selected research papers presented at the International Conference on Data Intelligence and Cognitive Informatics ICDICI 2023 organized by SCAD College of Engineering and Technology Tirunelveli India during June 27 28 2023 This book discusses new cognitive informatics tools algorithms and methods that mimic the mechanisms of the human brain which lead to an impending revolution in understating a large amount of data generated by various smart applications The book includes novel work in data intelligence domain which combines with the increasing efforts of artificial intelligence machine learning deep learning and cognitive science to study and develop a deeper understanding of the information processing systems Artificial Intelligence and Information Technologies Arvind Dagur, Dhirendra Kumar Shukla, Nazarov Fayzullo Makhmadiyarovich, Akhatov Akmal Rustamovich, Jabborov Jamol Sindorovich, 2024-07-31 This book contains the proceedings of a non profit conference with the objective of providing a platform for academicians researchers scholars and students from

various institutions universities and industries in India and abroad and exchanging their research and innovative ideas in the field of Artificial Intelligence and Information Technologies It begins with exploring the research and innovation in the field of Artificial Intelligence and Information Technologies including secure transaction monitoring real time assistance and security for advanced stage learners researchers and academicians has been presented It goes on to cover Broad knowledge and research trends about artificial intelligence and Information Technologies and their role in today s digital era Depiction of system model and architecture for clear picture of AI in real life Discussion on the role of Artificial Intelligence in various real life problems such as banking healthcare navigation communication security etc Explanation of the challenges and opportunities in AI based Healthcare education banking and related Industries Recent Information technologies and challenges in this new epoch This book will be beneficial to researchers academicians undergraduate students postgraduate students research scholars professionals technologists and entrepreneurs

Artificial Intelligence Applications and Innovations Ilias Maglogiannis,Kostas Karpouzis,2006-05-18 Artificial Intelligence applications build on a rich and proven theoretical background to provide solutions to a wide range of real life problems The ever expanding abundance of information and computing power enables researchers and users to tackle highly interesting issues for the first time such as applications providing personalized access and interactivity to multimodal information based on preferences and semantic concepts or human machine interface systems utilizing information on the affective state of the user The purpose of the 3rd IFIP Conference on Artificial Intelligence Applications and Innovations AIAI is to bring together researchers engineers and practitioners interested in the technical advances and business and industrial applications of intelligent systems AIAI 2006 is focused on providing insights on how AI can be implemented in real world applications

Computational Intelligence in Data Mining - Volume 1 Lakhmi C. Jain,Himansu Sekhar Behera,Jyotsna Kumar Mandal,Durga Prasad Mohapatra,2014-12-10 The contributed volume aims to explicate and address the difficulties and challenges for the seamless integration of two core disciplines of computer science i e computational intelligence and data mining Data Mining aims at the automatic discovery of underlying non trivial knowledge from datasets by applying intelligent analysis techniques The interest in this research area has experienced a considerable growth in the last years due to two key factors a knowledge hidden in organizations databases can be exploited to improve strategic and managerial decision making b the large volume of data managed by organizations makes it impossible to carry out a manual analysis The book addresses different methods and techniques of integration for enhancing the overall goal of data mining The book helps to disseminate the knowledge about some innovative active research directions in the field of data mining machine and computational intelligence along with some current issues and applications of related topics

Machine Vision and Augmented Intelligence—Theory and Applications Manish Kumar Bajpai,Koushendra Kumar Singh,George Giakos,2021-11-10 This book comprises the proceedings of the International Conference on Machine Vision and Augmented Intelligence MAI 2021 held at IIIT Jabalpur in February 2021 The conference

proceedings encapsulate the best deliberations held during the conference The diversity of participants in the event from academia industry and research reflects in the articles appearing in the volume The book theme encompasses all industrial and non industrial applications in which a combination of hardware and software provides operational guidance to devices in the execution of their functions based on the capture and processing of images This book covers a wide range of topics such as modeling of disease transformation epidemic forecast COVID 19 image processing and computer vision augmented intelligence soft computing deep learning image reconstruction artificial intelligence in healthcare brain computer interface cybersecurity and social network analysis natural language processing etc

The Handbook on Reasoning-Based Intelligent Systems Kazumi Nakamatsu,2013 This book consists of various contributions in conjunction with the keywords OC reasoningOCO and OC intelligent systemsOCO which widely covers theoretical to practical aspects of intelligent systems Therefore it is suitable for researchers or graduate students who want to study intelligent systems generally

Handbook of Research on Emerging Perspectives in Intelligent Pattern Recognition, Analysis, and Image Processing Kamila, Narendra Kumar,2015-11-30

Intelligence Enabled Research Siddhartha Bhattacharyya,Sushmita Mitra,Paramartha Dutta,2020-01-04 This book gathers extended versions of papers presented at DoSIER 2019 the First Doctoral Symposium on Intelligence Enabled Research organized by RCC Institute of Information Technology Kolkata India The papers address the rapidly expanding research area of computational intelligence which no longer limited to specific computational fields has since made inroads in signal processing smart manufacturing predictive control robot navigation smart cities and sensor design to name but a few Presenting chapters written by experts active in these areas the book offers a valuable reference guide for researchers and industrial practitioners alike and will inspire future studies

Whispering the Strategies of Language: An Mental Quest through **Intelligent Watermarking Techniques Intelligent Watermarking Techniques**

In a digitally-driven earth wherever displays reign supreme and instant connection drowns out the subtleties of language, the profound strategies and psychological nuances hidden within words often get unheard. Yet, nestled within the pages of **Intelligent Watermarking Techniques Intelligent Watermarking Techniques** a interesting fictional treasure sporting with fresh feelings, lies an exceptional journey waiting to be undertaken. Written by a talented wordsmith, that marvelous opus encourages readers on an introspective journey, softly unraveling the veiled truths and profound impact resonating within the fabric of each and every word. Within the mental depths with this moving evaluation, we shall embark upon a heartfelt exploration of the book is core subjects, dissect their captivating writing type, and succumb to the powerful resonance it evokes heavy within the recesses of readers hearts.

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