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Soggetti	Data encryption (Computer science) Computers and civilization Multimedia information systems Natural language processing (Computer science) Optical data processing Management information systems Computer science Cryptology Computers and Society Multimedia Information Systems Natural Language Processing (NLP) Image Processing and Computer Vision Management of Computing and Information Systems
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Talks -- Information-Hiding Games -- Informed Embedding for Multi-bit Watermarks -- Fundamentals I -- The Design and Application of DWT-Domain Optimum Decoders -- Enhanced Watermarking Scheme Based on Removal of Local Means -- New Algorithms -- A Multi-user Based Watermarking System with Two-Security-Level Keys -- A New Blind Watermarking Technique Based on Independent Component Analysis -- A New Collusion Attack and Its Performance

Evaluation -- A Multistage VQ Based Watermarking Technique with Fake Watermarks -- Fundamentals II -- BER Formulation for the Blind Retrieval of MPEG Video Watermark -- Optimal Detection of Transform Domain Additive Watermark by Using Low Density Diversity -- Watermarking Unusual Content -- Implications for Image Watermarking of Recent Work in Image Analysis and Representation -- On Watermarking Numeric Sets -- Watermarking Techniques for Electronic Circuit Design -- Fragile Watermarking -- A SVD-Based Fragile Watermarking Scheme for Image Authentication -- A DWT-Based Fragile Watermarking Tolerant of JPEG Compression -- Robust Watermarking -- Robust Local Watermarking on Salient Image Areas -- Image Normalization Using Invariant Centroid for RST Invariant Digital Image Watermarking -- An Image Watermarking Algorithm Robust to Geometric Distortion -- Adaptive Watermarking -- Spatial Frequency Band Division in Human Visual System Based-Watermarking -- Two-Step Detection Algorithm in a HVS-Based Blind Watermarking of Still Images -- Content Adaptive Watermark Embedding in the Multiwavelet Transform Using a Stochastic Image Model.

Sommario/riassunto

The 1st International Workshop on Digital Watermarking (IWDW), the conference covering all aspects of digital watermarking, was held at the Hotel Riviera situated along the beautiful Han River in Seoul, Korea from November 21 to 22, 2002. These proceedings contain 21 papers that were accepted for presentation at the conference. These papers were selected from 67 submissions including 3 invited papers. They went through a thorough review process by the Program Committee and were selected on the basis of excellence and novelty. The following is a brief description of the history of this conference and - viewing process: In August 2001 some members of the Special Interest Group on Multimedia Protection (SIGMP) of the Korea Institute of Information Security and Cryptology (KIISC) agreed to create the IWDW. In November 2001 we set up a Program Committee and solicited papers while asking Springer-Verlag to publish the proceedings of the workshop in their Lecture Notes in Computer Science series. In July 2002 we received 64 submissions from 14 countries using Microsoft’s conference management site (http://cmt. research. microsoft. com/ iwdw2002/). Each submission was assigned a number automatically by the conference management tool and the paper was sent to the Program Committee members for their review. We also encouraged different sets of experts to join for fair reviews.