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Nota di contenuto	Watermarking Is Not Cryptography -- Secure Quantization Index Modulation Watermark Detection -- Steganalysis in the Presence of Weak Cryptography and Encoding -- Category Attack for LSB Steganalysis of JPEG Images -- Steganalysis Using High-Dimensional Features Derived from Co-occurrence Matrix and Class-Wise Non-Principal Components Analysis (CNPCA) -- Multi Bit Plane Image Steganography -- Reversible Watermarking for Error Diffused Halftone Images Using Statistical Features -- Wavelet Domain Print-Scan and

JPEG Resilient Data Hiding Method -- A New Multi-set Modulation Technique for Increasing Hiding Capacity of Binary Watermark for Print and Scan Processes -- A Novel Multibit Watermarking Scheme Combining Spread Spectrum and Quantization -- Wavelet Analysis Based Blind Watermarking for 3-D Surface Meshes -- Watermarking for 3D Keyframe Animation Based on Geometry and Interpolator -- A Robust Video Watermarking Scheme Via Temporal Segmentation and Middle Frequency Component Adaptive Modification -- Capacity Enhancement of Compressed Domain Watermarking Channel Using Duo-binary Coding -- Detection of Image Splicing Based on Hilbert-Huang Transform and Moments of Characteristic Functions with Wavelet Decomposition -- Intellectual Property Rights Management Using Combination Encryption in MPEG-4 -- Data Hiding in Film Grain -- Joint Screening Halftoning and Visual Cryptography for Image Protection -- Robust Audio Watermarking Based on Low-Order Zernike Moments -- Analysis of Optimal Search Interval for Estimation of Modified Quantization Step Size in Quantization-Based Audio Watermark Detection -- Universal JPEG Steganalysis in the Compressed Frequency Domain -- Attack on JPEG2000 Steganography Using LRCA -- A Low-Cost Attack on Branch-Based Software Watermarking Schemes -- Geometric Invariant Domain for Image Watermarking -- Desynchronization in Compression Process for Collusion Resilient Video Fingerprint -- Lossless Data Hiding Using Histogram Shifting Method Based on Integer Wavelets -- Analysis and Comparison of Typical Reversible Watermarking Methods -- A Reversible Watermarking Based on Histogram Shifting -- Towards Lower Bounds on Embedding Distortion in Information Hiding -- Improved Differential Energy Watermarking for Embedding Watermark -- A Colorization Based Animation Broadcast System with Traitor Tracing Capability -- Adaptive Video Watermarking Utilizing Video Characteristics in 3D-DCT Domain -- Scalable Protection and Access Control in Full Scalable Video Coding -- A Wavelet-Based Fragile Watermarking Scheme for Secure Image Authentication -- Secure Watermark Embedding Through Partial Encryption -- A Rotation-Invariant Secure Image Watermarking Algorithm Incorporating Steerable Pyramid Transform -- Error Resilient Image Authentication Using Feature Statistical and Spatial Properties.

Sommario/riassunto

Welcome to the proceedings of the Fifth International Workshop on Digital Watermarking (IWDW). Since the first IWDW held in Seoul, Korea in 2002, it has been a focal point for meeting in person and disseminating valuable scientific and technological developments in watermarking. IWDW 2006 was held on Jeju, the dream island in Korea. The main theme of the workshop was “Meet the Challenges in this Digital World!” As we all know, digital watermarking and its related technologies have emerged as the key ingredients of this digital world. We report on new developments and discuss how to best utilize the watermarking and its related new technologies to cope with many challenging issues in this digital world. This year, we accepted 34 papers out of 76 highly qualified submissions from 14 different countries. Each paper was reviewed by three reviewers. The acceptance ratio of 44% indicates IWDW’s continuing commitment to ensuring the quality of the workshop. In addition, we had three invited lectures and one panel discussion that shed invaluable insights to the watermarking community on new developments and future directions. The technical program featured such topics as steganography and steganalysis, data forensics, digital right management, secure watermarking, and their applications. The 34 accepted papers, three invited lectures, and the panel discussion covered both theoretical and practical issues that all

of us can benefit from. Furthermore, 13 of the 34 papers were arranged in a poster session in order to facilitate more efficient and interactive information exchange.