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Edizione	[1st ed. 2007.]
Descrizione fisica	1 online resource (525 p.)
Collana	Information Systems and Applications, incl. Internet/Web, and HCI ; ; 4577
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Soggetti	Multimedia data mining Content analysis (Communication)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Contributions -- Multimedia Analysis by Learning -- Learning Concepts by Modeling Relationships -- Emerging Issues for Multimedia Analysis and Applications -- The Real Problem of Bridging the "Semantic Gap" -- Multimedia Ontology Based Computational Framework for Video Annotation and Retrieval -- Scalable Indexing for Perceptual Data -- Searching One Billion Web Images by Content: Challenges and Opportunities -- Challenges on Peer-to-Peer Live Media Streaming -- Video Streaming to Mobile Handheld Devices: Challenges in Decoding, Adaptation, and Browsing -- Fixed-Mobile Convergence, Streaming Multimedia Services, and Peer-to-Peer Communication -- Blind Passive Media Forensics: Motivation and Opportunity -- Security Models of Digital Watermarking -- Evolvement of DRM Schema: From Encryption to Interoperability and Monitoring -- Regular Contributions -- Shape Retrieval Based on the Relativity of Chain Codes -- 3D Motion Segmentation from Straight-Line Optical Flow -- A Fast Adaptive ME Algorithm Based on H.264 -- Shared Latent Dynamical Model for Human Tracking from Videos -- Panoramic Video Coding Using Affine Motion Compensated Prediction -- Robust

Bootstrapping of Speaker Models for Unsupervised Speaker Indexing -- Reversible Data Embedding Technique for Palette Images Using De-clustering -- The PT-2 Caching Algorithm in the Transcoding Proxy Cluster to Facilitate Adaptive Content Delivery -- Constructing and Application of Multimedia TV News Archives -- A Three-Level Scheme for Real-Time Ball Tracking -- Video Object Mining with Local Region Tracking -- Automatic Extraction of Semantic Relationships from Images Using Ontologies and SVM Classifiers -- A Robust Caption Detecting Algorithm on MPEG Compressed Video -- A Hybrid Approach for Authenticating MPEG-2 Streaming Data -- HOS-Based Image Super-Resolution Reconstruction -- Story Unit Segmentation with Friendly Acoustic Perception -- Decomposition in Hidden Markov Models for Activity Recognition -- Image Inpainting with Improved Exemplar-Based Approach -- Fingerprinting Codes for Live Pay-Television Broadcast Via Internet -- A New Type of Proxy Ring Signature Scheme with Revocable Anonymity and No Info Leaked -- The Research of an Embedded Processor Element for Multimedia Domain -- Speeding Up Scalar Multiplication Using a New Signed Binary Representation for Integers -- Color-Texture Image Segmentation by Combining Region and Photometric Invariant Edge Information -- Multimedia Authoring Tool for Real-Time Facial Animation -- Object Re-detection Using SIFT and MPEG-7 Color Descriptors -- Interactive Boosting for Image Classification -- FBSA: A Self-adjustable Multi-source Data Scheduling Algorithm for P2P Media Streaming -- An Optimized Topology Maintenance Framework for P2P Media Streaming -- Building Large Scale 3D Face Database for Face Analysis -- Senary Huffman Compression -- A Reversible Data Hiding Scheme for Binary Images -- Managing and Searching Distributed Multidimensional Annotations with Large Scale Image Data -- A Closed-Form Solution of Reconstruction from Nonparallel Stereo Geometry Used in Image Guided System for Surgery -- SIEVE—Search Images Effectively Through Visual Elimination -- Virtual Community Based Secure Service Discovery and Access for 3D Video Steaming Applications -- QoS Adaptive Data Organizing and Delivery Framework for P2P Media Streaming -- Adaptive Interpolation for Error Concealment in H.264 Using Directional Histograms -- Players and Ball Detection in Soccer Videos Based on Color Segmentation and Shape Analysis -- Efficient Image Retrieval Using Conceptualization of Annotated Images -- 3-D Camera Modeling and Its Applications in Sports Broadcast Video Analysis -- Face Recognition by Matching 2D and 3D Geodesic Distances -- A Blind Watermarking Scheme Based on Visual Model for Copyright Security -- Fast Mode Decision by Exploiting Spatio-temporal Correlation in H.264 -- SVM-Based Audio Classification for Content- Based Multimedia Retrieval -- Moving Object Tracking in H.264/AVC Bitstream -- A Prediction Error Compression Method with Tensor-PCA in Video Coding -- On the Robustness of Parametric Watermarking of Speech.

Sommario/riassunto

Welcome to the International Workshop on Multimedia Content Analysis and Mining, MCAM 2007. Our workshop gives a snapshot of the current world-wide research in multimedia analysis. Through recent advances in computing, networking, and data storage, multimedia will create new interesting technical possibilities in a wide range of fields, such as entertainment, commerce, science, medicine, and public safety. To benefit from this potential, developers need reliable techniques for the analysis, search, and management of multimedia data, as well as distributed system architectures in which these techniques can be embedded to effectively help the users. Recently, there have been many workshops and meetings dedicated to Multimedia, but most of them followed the standard pattern consisting mainly of oral and poster

presentations. We all feel that there is a need for a meeting that really is a workshop, i.e., one that provides a lot of opportunities for discussions and dissemination. Consequently, the format of the workshop consists of 4 panels on hot topics in multimedia followed by discussions and poster presentations. The topics of the panels are: Multimedia Analysis and Applications, Multimedia Search and Mining, P2P Streaming, and Security. This volume contains a number of invited contributions from experts in the area as well as the selected regular contributions. This year 139 submissions from 13 countries were submitted and 46 were accepted for presentation at the conference after being reviewed by the Program Committee members.
