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Nota di contenuto	Knowledge Based Content Processing -- Improving the Accuracy of Global Feature Fusion Based Image Categorisation -- Stopping Region-Based Image Segmentation at Meaningful Partitions -- Semantic Multimedia Annotation I -- Hierarchical Long-Term Learning for Automatic Image Annotation -- LSA-Based Automatic Acquisition of

Semantic Image Descriptions -- Domain-Restricted Generation of Semantic Metadata from Multimodal Sources -- Ontology-Driven Semantic Video Analysis Using Visual Information Objects -- On the Selection of MPEG-7 Visual Descriptors and Their Level of Detail for Nature Disaster Video Sequences Classification -- A Region Thesaurus Approach for High-Level Concept Detection in the Natural Disaster Domain -- Annotation of Heterogeneous Multimedia Content Using Automatic Speech Recognition -- A Model-Based Iterative Method for Caption Extraction in Compressed MPEG Video -- Automatic Recommendations for Machine-Assisted Multimedia Annotation: A Knowledge-Mining Approach -- Video Summarisation for Surveillance and News Domain -- Classification and Annotation of Multidimensional Content -- Thesaurus-Based Ontology on Image Analysis -- A Wavelet-Based Algorithm for Multimodal Medical Image Fusion -- Context-Sensitive Pan-Sharpening of Multispectral Images -- Semantic Annotation of 3D Surface Meshes Based on Feature Characterization -- 3D Classification Via Structural Prototypes -- Content Adaptation -- Post-processing Techniques for On-Line Adaptive Video Summarization Based on Relevance Curves -- A Constraint-Based Graph Visualisation Architecture for Mobile Semantic Web Interfaces -- Personalization of Content in Virtual Exhibitions -- MX: The IEEE Standard for Interactive Music -- The Concept of Interactive Music: The New Standard IEEE P1599 / MX -- Outline of the MX Standard -- AutomaticSynchronisation Between Audio and Score Musical Description Layers -- Interacting at the Symbolic and Structural Levels -- Interacting with Csound Timbral Textures -- Semantic Multimedia Annotation II -- A Semantic Web Environment for Digital Shapes Understanding -- Modeling Linguistic Facets of Multimedia Content for Semantic Annotation -- Short Papers -- Leveraging Ontologies, Context and Social Networks to Automate Photo Annotation -- Use Cases of Scalable Video Based Summarization and Adaptation Within MPEG-21 DIA -- Ontology for Semantic Integration in a Cognitive Surveillance System -- Conditional Random Fields for High-Level Part Correlation Analysis in Images -- Document Layout Substructure Discovery -- Recognition of JPEG Compressed Face Images Based on AdaBoost -- Camera Motion Analysis Towards Semantic-Based Video Retrieval in Compressed Domain -- Challenges in Supporting Faceted Semantic Browsing of Multimedia Collections -- A Study of Vocabularies for Image Annotation -- Towards a Cross-Media Analysis of Spatially Co-located Image and Text Regions in TV-News -- K-Space Awarded PhD Papers -- Towards Person Google: Multimodal Person Search and Retrieval -- Event Detection in Pedestrian Detection and Tracking Applications -- SAMMI.

Sommario/riassunto

This book constitutes the refereed proceedings of the Second International Conference on Semantics and Digital Media Technologies, SAMT 2007, held in Genoa, Italy, in December 2007. The conference brings together forums, projects, institutions and individuals investigating the integration of knowledge, semantics and low-level multimedia processing, including new emerging media and application areas. The papers are organized in topical sections.
