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This book constitutes the refereed proceedings of the First International Conference on Semantics and Digital Media Technologies, SAMT 2006, held in Athens, Greece in December 2006. The 17 revised full papers presented together with a invited keynote paper were carefully reviewd and selected from 68 submissions. SAMT 2006 targets to narrow the `Semantic Gap', i.e. the large disparity between the low-level descriptors that can be computed automatically from multimedia content and the richness and subjectivity of semantics in user queries and human interpretations of audiovisual media. The papers address a wide area of integrative research on new knowledge-based forms of digital media systems, semantics and low-level multimedia processing.

Content vs. Contest for Multimedia Semantics:The Case of Sense Cam Image StructuringA Scalable Framework for Multimedia Knowledge ManagementIn Search for Your Own Virtual IndividualEnabling Multimedia Metadta Interoperability by Defining Formal Semantics of MPEG-7 ProfilesTrend Detection in FolksonomiesPersonal Semantic Indexation of Images Using Textual Annotations Human Activity Language:Grounding Concepts with a linguistic FrameworkAn Engine for Content-Aware On-Line Video AdaptationImage Clustering Using Multimoda KeywordsA Probability-Based Unified 3D Shape SearchA Bayesian Network Approach to Multi-feature Based Image RetrieavlExtraction of Motion Activity from Scalable-Coded Video SequencesImage Classification Using an Ant Colony Optimization Approach Ues of Image Regions in Contest-Adaptive Image ClassificationBPT Enhancement Based on Syntactic and Semantic CriteriaSemantic Image Analysis Using a Learning Approach and Spatial ContextA Context-Based Region Labeling Approach for Semantic Image SegmentationAutomated Speech and Audio Analysis for Semantic Access to MultimediaAuthor Index

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