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# **VIDEO CONTENT ANALYSIS USING MULTIMODAL INFORMATION**

**For Movie Content Extraction,  
Indexing and Representation**

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**Ying Li  
C.-C. Jay Kuo**

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# Video Content Analysis Using Multimodal Information

**Ying Li**

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## **Video Content Analysis Using Multimodal Information:**

**Video Content Analysis Using Multimodal Information** Ying Li, C.C. Jay Kuo, 2013-04-17 Video Content Analysis Using Multimodal Information For Movie Content Extraction Indexing and Representation is on content based multimedia analysis indexing representation and applications with a focus on feature films Presented are the state of art techniques in video content analysis domain as well as many novel ideas and algorithms for movie content analysis based on the use of multimodal information The authors employ multiple media cues such as audio visual and face information to bridge the gap between low level audiovisual features and high level video semantics Based on sophisticated audio and visual content processing such as video segmentation and audio classification the original video is re represented in the form of a set of semantic video scenes or events where an event is further classified as a 2 speaker dialog a multiple speaker dialog or a hybrid event Moreover desired speakers are simultaneously identified from the video stream based on either a supervised or an adaptive speaker identification scheme All this information is then integrated together to build the video s ToC table of content as well as the index table Finally a video abstraction system which can generate either a scene based summary or an event based skim is presented by exploiting the knowledge of both video semantics and video production rules This monograph will be of great interest to research scientists and graduate level students working in the area of content based multimedia analysis indexing representation and applications as well s its related fields

**Content-based Video Analysis, Indexing and Representation Using Multimodal Information** Ying Li, 2003

**Multimedia Semantics** Raphael Troncy, Benoit Huet, Simon Schenk, 2011-07-18 In this book the authors present the latest research results in the multimedia and semantic web communities bridging the Semantic Gap This book explains collects and reports on the latest research results that aim at narrowing the so called multimedia Semantic Gap the large disparity between descriptions of multimedia content that can be computed automatically and the richness and subjectivity of semantics in user queries and human interpretations of audiovisual media Addressing the grand challenge posed by the Semantic Gap requires a multi disciplinary approach computer science computer vision and signal processing cognitive science web science etc and this is reflected in recent research in this area In addition the book targets an interdisciplinary community and in particular the Multimedia and the Semantic Web communities Finally the authors provide both the fundamental knowledge and the latest state of the art results from both communities with the goal of making the knowledge of one community available to the other Key Features Presents state of the art research results in multimedia semantics multimedia analysis metadata standards and multimedia knowledge representation semantic interaction with multimedia Contains real industrial problems exemplified by user case scenarios Offers an insight into various standardisation bodies including W3C IPTC and ISO MPEG Contains contributions from academic and industrial communities from Europe USA and Asia Includes an accompanying website containing user cases datasets and software mentioned in the book as well as links to the K Space NoE and the SMaRT society web sites <http://www.k-space.noe.ac.uk>

www.multimediasemantics.com This book will be a valuable reference for academic and industry researchers practitioners in multimedia computational intelligence and computer science fields Graduate students project leaders and consultants will also find this book of interest

**Technologies for Interactive Digital Storytelling and Entertainment** Stefan Göbel, Rainer Malkewitz, Ido Iurgel, 2006-11-17 This book constitutes the refereed proceedings of the Third International Conference on Technologies for Interactive Digital Storytelling and Entertainment TIDSE 2006 held in Darmstadt Germany in December 2006 It contains 37 papers that cover a broad spectrum from conceptual ideas theories and technological questions to best practice examples in the different storytelling application domains with a focus on entertainment and games

**Advances in Visual Computing** George Bebis, 2008-11-13 The two volume set LNCS 5358 and LNCS 5359 constitutes the refereed proceedings of the 4th International Symposium on Visual Computing ISVC 2008 held in Las Vegas NV USA in December 2008 The 102 revised full papers and 70 poster papers presented together with 56 full and 8 poster papers of 8 special tracks were carefully reviewed and selected from more than 340 submissions The papers are organized in topical sections on computer graphics visualization shape recognition video analysis and event recognition virtual reality reconstruction motion face gesture and computer vision applications The 8 additional special tracks address issues such as object recognition real time vision algorithm implementation and application computational bioimaging and visualization discrete and computational geometry soft computing in image processing and computer vision visualization and simulation on immersive display devices analysis and visualization of biomedical visual data as well as image analysis for remote sensing data

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