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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

**Clifford Lane**



## **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.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** Richard Boyle, Bahram Parvin, Darko Koracin, Fatih Porikli, Jörg Peters, James Klosowski, Laura Arns, Yu Ka Chun, Theresa-Marie Rhyne, Laura Monroe, 2008-12-02 It is with great pleasure that we present the proceedings of the 4th International Symposium on Visual Computing ISVC 2008 in Las Vegas Nevada ISVC offers a common umbrella for the four main areas of visual computing including vision graphics visualization and virtual reality Its goal is to provide a forum for researchers scientists engineers and practitioners throughout the world to present their latest research findings ideas developments and applications in the broader area of visual computing This year ISVC grew significantly the program consisted of 15 oral sessions 1 poster session 8 special tracks and 6 keynote presentations The response to the call for papers was very strong we received over 340 submissions for the main symposium from which we accepted 102 papers for oral presentation and 70 papers for poster presentation Special track papers were solicited separately through the Organizing and Program Committees of each track A total of 56 papers were accepted for oral presentation and 8 papers for poster presentation in the special tracks All papers were reviewed with an emphasis on potential to contribute to the state of the art in the field Selection criteria included accuracy and originality of ideas clarity and significance of results and presentation quality The review process was quite rigorous involving two to three independent blind reviews followed by several days of discussion During the discussion period we tried to correct anomalies and errors that might have existed in the initial reviews

**Image and Video Retrieval**, 2005

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[Advances in Multimedia Information Processing-PCM ...](#), 2005

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**Storage and Retrieval Methods and Applications for Multimedia 2004** Rainer W. Lienhart, Chung-Sheng Li, 2004 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

*Storage and Retrieval for Media Databases*, 2001 *Design and Management of Multimedia Information Systems* Syed Mahbubur Rahman, Mahbubur Rahman Syed, 2001 Multimedia technology has the potential to transform end user computing from interactive text and graphics models into something more compatible with the digital and electronic world of the 21st century This work aims to help technology professionals gain an understanding and perspective on areas related to multimedia computing and communication while addressing the major issues and challenges in the design and management of multimedia information systems Topics covered include the development of multimedia systems and applications use of multimedia standards temporal issues legal issues media content management and multimedia document retrieval issues

**Dissertation Abstracts International**, 2008 [Proceedings, ACM Multimedia ...](#), 2002 *Multimedia Content Analysis, Management, and Retrieval 2006* Edward Y. Chang, A. Hanjalic, Nicu Sebe, 2006 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

[International Conference on Multimodal Interfaces](#), 2006 *Proceedings*, 2005 *IEEE ... Workshop on Multimedia Signal Processing*, 2004 [The 3rd European Conference on Visual Media Production \(CVMP 2006\)](#), 2006 *ICTACS 2006* Bao T. Ho, 2007 This volume

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