A	ecord Nr. utore itolo	UNINA9910143748403321 Stamou Giorgos Multimedia content and the semantic Web [[electronic resource] ] : methods, standards and tools / / edited by Giorgos Stamou and Stefanos Kollias
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Sommario/riassunto The emerging idea of the semantic web is based on the maximum automation of the complete knowledge lifecycle processes: knowledge representation, acquisition, adaptation, reasoning, sharing and use. Text-based based browsers involve a costly information-retrieval process: descriptions are inherently subjective and usage is often confined to the specific application domain for which the descriptions were created. Automatic extracted audiovisual features are, in general, more objective, domain-independent and can be native to the audiovisual content. This book seeks to draw together in one c		MPEG-7 Description of a Fuel Cell; Appendix C OME Description of Fuel Cell Image; Appendix D FUSION Description of a Fuel Cell Image; Appendix E XML Schema for FUSION; 4 A Fuzzy Knowledge-Based System for Multimedia Applications; 4.1 Introduction 4.2 Knowledge Base Formalization4.3 Fuzzy Propositional Rules Inference Engine; 4.4 Demonstration; 4.5 Conclusion and Future Work; References; Part Two: Multimedia Content Analysis; 5 Structure Identification in an Audiovisual Document; 5.1 Introduction; 5.2 Shot Segmentation; 5.3 Evaluation of Shot-Segmentation Algorithms; 5.4 Formal Description of the Video Editing Work; 5.5 Macrosegmentation; 5.6 Conclusion; 5.7 Acknowledgement; References; 6 Object-Based Video Indexing; 6.1 Introduction; 6.2 MPEG-7 as a Normalized Framework for Object-Based Indexing of Video Content 6.3 Spatio-Temporal Segmentation of Video for Object Extraction6.4 Rough Indexing Paradigm for Object-Based Indexing of Compressed Content; 6.5 Conclusion; References; 7 Automatic Extraction and Analysis of Visual Objects Information; 7.1 Introduction; 7.2 Overview of the Proposed Model; 7.3 Region-Based Representation of Images: The Binary Partition Tree; 7.4 Perceptual Modelling of a Semantic Class; 7.5 Structural Modelling of a Semantic Class; 7.6 Conclusions; Acknowledgements; References; 8 Mining the Semantics of Visual Concepts and Context; 8.1 Introduction 8.2 Modelling Context: A Graphical Multinet Model for Learning and Enforcing Context; 8.4 Experimental Set-up and Results; 8.5 Concluding Remarks; Acknowledgement; References; 9 Machine Learning in Multimedia; 9.1 Introduction; 9.2 Graphical Models and Multimedia Understanding; 9.3 Learning Classifiers with Labelled and Unlabelled Data; 9.4 Examples of Graphical Models for Multimedia Understanding and Computer Vision; 9.5 Conclusions; References; Part Three: Multimedia Content Management Systems and the Semantic Web 10 Semantic Web Applications
	Sommario/riassunto	automation of the complete knowledge lifecycle processes: knowledge representation, acquisition, adaptation, reasoning, sharing and use. Text-based based browsers involve a costly information-retrieval process: descriptions are inherently subjective and usage is often confined to the specific application domain for which the descriptions were created. Automatic extracted audiovisual features are, in general,