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Nota di contenuto	Foreword xi -- List of Figures xiii -- List of Tables xvii -- List of Contributors xix -- 1 Introduction 1 / Raphael Troncy, Benoit Huet and Simon Schenk -- 2 Use Case Scenarios 7 / Werner Bailer, Susanne Boll, Oscar Celma, Michael Hausenblas and Yves Raimond -- 2.1 Photo Use Case 8 -- 2.1.1 Motivating Examples 8 -- 2.1.2 Semantic Description of Photos Today 9 -- 2.1.3 Services We Need for Photo Collections 10 -- 2.2 Music Use Case 10 -- 2.2.1 Semantic Description of Music Assets 11 -- 2.2.2 Music Recommendation and Discovery 12 -- 2.2.3 Management of Personal Music Collections 13 -- 2.3 Annotation in

Professional Media Production and Archiving 14 -- 2.3.1 Motivating Examples 15 -- 2.3.2 Requirements for Content Annotation 17 -- 2.4 Discussion 18 -- Acknowledgements 19 -- 3 Canonical Processes of Semantically Annotated Media Production 21 / Lynda Hardman, ZÆeljko Obrenovic and Frank Nack -- 3.1 Canonical Processes 22 -- 3.1.1 Premeditate 23 -- 3.1.2 Create Media Asset 23 -- 3.1.3 Annotate 23 -- 3.1.4 Package 24 -- 3.1.5 Query 24 -- 3.1.6 Construct Message 25 -- 3.1.7 Organize 25 -- 3.1.8 Publish 26 -- 3.1.9 Distribute 26 -- 3.2 Example Systems 27 -- 3.2.1 CeWe Color Photo Book 27 -- 3.2.2 SenseCam 29 -- 3.3 Conclusion and Future Work 33 -- 4 Feature Extraction for Multimedia Analysis 35 / Rachid Benmokhtar, Benoit Huet, Gael Richard and Slim Essid -- 4.1 Low-Level Feature Extraction 36 -- 4.1.1 What Are Relevant Low-Level Features? 36 -- 4.1.2 Visual Descriptors 36 -- 4.1.3 Audio Descriptors 45 -- 4.2 Feature Fusion and Multi-modality 54 -- 4.2.1 Feature Normalization 54 -- 4.2.2 Homogeneous Fusion 55 -- 4.2.3 Cross-modal Fusion 56 -- 4.3 Conclusion 58 -- 5 Machine Learning Techniques for Multimedia Analysis 59 / Slim Essid, Marine Campedel, Gael Richard, Tomas Piatrik, Rachid Benmokhtar and Benoit Huet -- 5.1 Feature Selection 61 -- 5.1.1 Selection Criteria 61 -- 5.1.2 Subset Search 62 -- 5.1.3 Feature Ranking 63 -- 5.1.4 A Supervised Algorithm Example 63 -- 5.2 Classification 65. 5.2.1 Historical Classification Algorithms 65 -- 5.2.2 Kernel Methods 67 -- 5.2.3 Classifying Sequences 71 -- 5.2.4 Biologically Inspired Machine Learning Techniques 73 -- 5.3 Classifier Fusion 75 -- 5.3.1 Introduction 75 -- 5.3.2 Non-trainable Combiners 75 -- 5.3.3 Trainable Combiners 76 -- 5.3.4 Combination of Weak Classifiers 77 -- 5.3.5 Evidence Theory 78 -- 5.3.6 Consensual Clustering 78 -- 5.3.7 Classifier Fusion Properties 80 -- 5.4 Conclusion 80 -- 6 Semantic Web Basics 81 / Eyal Oren and Simon Schenk -- 6.1 The Semantic Web 82 -- 6.2 RDF 83 -- 6.2.1 RDF Graphs 86 -- 6.2.2 Named Graphs 87 -- 6.2.3 RDF Semantics 88 -- 6.3 RDF Schema 90 -- 6.4 Data Models 93 -- 6.5 Linked Data Principles 94 -- 6.5.1 Dereferencing Using Basic Web Look-up 95 -- 6.5.2 Dereferencing Using HTTP 303 Redirects 95 -- 6.6 Development Practicalities 96 -- 6.6.1 Data Stores 97 -- 6.6.2 Toolkits 97 -- 7 Semantic Web Languages 99 / Antoine Isaac, Simon Schenk and Ansgar Scherp -- 7.1 The Need for Ontologies on the Semantic Web 100 -- 7.2 Representing Ontological Knowledge Using OWL 100 -- 7.2.1 OWL Constructs and OWL Syntax 100 -- 7.2.2 The Formal Semantics of OWL and its Different Layers 102 -- 7.2.3 Reasoning Tasks 106 -- 7.2.4 OWL Flavors 107 -- 7.2.5 Beyond OWL 107 -- 7.3 A Language to Represent Simple Conceptual Vocabularies: SKOS 108 -- 7.3.1 Ontologies versus Knowledge Organization Systems 108 -- 7.3.2 Representing Concept Schemes Using SKOS 109 -- 7.3.3 Characterizing Concepts beyond SKOS 111 -- 7.3.4 Using SKOS Concept Schemes on the Semantic Web 112 -- 7.4 Querying on the Semantic Web 113 -- 7.4.1 Syntax 113 -- 7.4.2 Semantics 118 -- 7.4.3 Default Negation in SPARQL 123 -- 7.4.4 Well-Formed Queries 124 -- 7.4.5 Querying for Multimedia Metadata 124 -- 7.4.6 Partitioning Datasets 126 -- 7.4.7 Related Work 127 -- 8 Multimedia Metadata Standards 129 / Peter Schallauer, Werner Bailer, Raphael Troncy and Florian Kaiser -- 8.1 Selected Standards 130 -- 8.1.1 MPEG-7 130 -- 8.1.2 EBU P_Meta 132. 8.1.3 SMPTE Metadata Standards 133 -- 8.1.4 Dublin Core 133 -- 8.1.5 TV-Anytime 134 -- 8.1.6 METS and VRA 134 -- 8.1.7 MPEG-21 135 -- 8.1.8 XMP, IPTC in XMP 135 -- 8.1.9 EXIF 136 -- 8.1.10 DIG35 137 -- 8.1.11 ID3/MP3 137 -- 8.1.12 NewsML G2 and rNews 138 -- 8.1.13 W3C Ontology for Media Resources 138 -- 8.1.14 EBUCore 139

-- 8.2 Comparison	140
-- 8.3 Conclusion	143
-- 9 The Core Ontology for Multimedia	145 / Thomas Franz, Raphael Troncy and Miroslav Vacura
-- 9.1 Introduction	145
-- 9.2 A Multimedia Presentation for Granddad	146
-- 9.3 Related Work	149
-- 9.4 Requirements for Designing a Multimedia Ontology	150
-- 9.5 A Formal Representation for MPEG-7	150
-- 9.5.1 DOLCE as Modeling Basis	151
-- 9.5.2 Multimedia Patterns	151
-- 9.5.3 Basic Patterns	155
-- 9.5.4 Comparison with Requirements	157
-- 9.6 Granddad's Presentation Explained by COMM	157
-- 9.7 Lessons Learned	159
-- 9.8 Conclusion	160
-- 10 Knowledge-Driven Segmentation and Classification	163 / Thanos Athanasiadis, Phivos Mylonas, Georgios Th. Papadopoulos, Vasileios Mezaris, Yannis Avrithis, Ioannis Kompatsiaris and Michael G. Strintzis
-- 10.1 Related Work	164
-- 10.2 Semantic Image Segmentation	165
-- 10.2.1 Graph Representation of an Image	165
-- 10.2.2 Image Graph Initialization	165
-- 10.2.3 Semantic Region Growing	167
-- 10.3 Using Contextual Knowledge to Aid Visual Analysis	170
-- 10.3.1 Contextual Knowledge Formulation	170
-- 10.3.2 Contextual Relevance	173
-- 10.4 Spatial Context and Optimization	177
-- 10.4.1 Introduction	177
-- 10.4.2 Low-Level Visual Information Processing	177
-- 10.4.3 Initial Region-Concept Association	178
-- 10.4.4 Final Region-Concept Association	179
-- 10.5 Conclusions	181
-- 11 Reasoning for Multimedia Analysis	183 / Nikolaos Simou, Giorgos Stoilos, Carsten Saathoff, Jan Nemrava, Vojtěch Svatek, Petr Berka and Vassilis Tzouvaras
-- 11.1 Fuzzy DL Reasoning	184
-- 11.1.1 The Fuzzy DL f-SHIN	184
-- 11.1.2 The Tableaux Algorithm	185
-- 11.1.3 The FiRE Fuzzy Reasoning Engine	187
-- 11.2 Spatial Features for Image Region Labeling	192
-- 11.2.1 Fuzzy Constraint Satisfaction Problems	192
-- 11.2.2 Exploiting Spatial Features Using Fuzzy -- Constraint Reasoning	193
-- 11.3 Fuzzy Rule Based Reasoning Engine	196
-- 11.4 Reasoning over Resources Complementary to Audiovisual Streams	201
-- 12 Multi-Modal Analysis for Content Structuring and Event Detection	205 / Noel E. O'Connor, David A. Sadlier, Bart Lehane, Andrew Salway, Jan Nemrava and Paul Buitelaar
-- 12.1 Moving Beyond Shots for Extracting Semantics	206
-- 12.2 A Multi-Modal Approach	207
-- 12.3 Case Studies	207
-- 12.4 Case Study 1: Field Sports	208
-- 12.4.1 Content Structuring	208
-- 12.4.2 Concept Detection Leveraging Complementary Text Sources	213
-- 12.5 Case Study 2: Fictional Content	214
-- 12.5.1 Content Structuring	215
-- 12.5.2 Concept Detection Leveraging Audio Description	219
-- 12.6 Conclusions and Future Work	221
-- 13 Multimedia Annotation Tools	223 / Carsten Saathoff, Krishna Chandramouli, Werner Bailer, Peter Schallauer and Raphael Troncy
-- 13.1 State of the Art	224
-- 13.2 SVAT: Professional Video Annotation	225
-- 13.2.1 User Interface	225
-- 13.2.2 Semantic Annotation	228
-- 13.3 KAT: Semi-automatic, Semantic Annotation of Multimedia Content	229
-- 13.3.1 History	231
-- 13.3.2 Architecture	232
-- 13.3.3 Default Plugins	234
-- 13.3.4 Using COMM as an Underlying Model: Issues and Solutions	234
-- 13.3.5 Semi-automatic Annotation: An Example	237
-- 13.4 Conclusions	239
-- 14 Information Organization Issues in Multimedia Retrieval Using Low-Level Features	241 / Frank Hopfgartner, Reede Ren, Thierry Urruty and Joemon M. Jose
-- 14.1 Efficient Multimedia Indexing Structures	242
-- 14.1.1 An Efficient Access Structure for Multimedia Data	243
-- 14.1.2 Experimental Results	245
-- 14.1.3 Conclusion	249
-- 14.2 Feature Term Based Index	249
-- 14.2.1 Feature Terms	250
-- 14.2.2 Feature Term Distribution	251
-- 14.2.3 Feature Term Extraction	252
-- 14.2.4 Feature Dimension Selection	253

14.2.5 Collection Representation and Retrieval System 254 -- 14.2.6 Experiment 256 -- 14.2.7 Conclusion 258 -- 14.3 Conclusion and Future Trends 259 -- Acknowledgement 259 -- 15 The Role of Explicit Semantics in Search and Browsing 261 / Michiel Hildebrand, Jacco van Ossenbruggen and Lynda Hardman -- 15.1 Basic Search Terminology 261 -- 15.2 Analysis of Semantic Search 262 -- 15.2.1 Query Construction 263 -- 15.2.2 Search Algorithm 265 -- 15.2.3 Presentation of Results 267 -- 15.2.4 Survey Summary 269 -- 15.3 Use Case A: Keyword Search in ClioPatria 270 -- 15.3.1 Query Construction 270 -- 15.3.2 Search Algorithm 270 -- 15.3.3 Result Visualization and Organization 273 -- 15.4 Use Case B: Faceted Browsing in ClioPatria 274 -- 15.4.1 Query Construction 274 -- 15.4.2 Search Algorithm 276 -- 15.4.3 Result Visualization and Organization 276 -- 15.5 Conclusions 277 -- 16 Conclusion 279 / Raphael Troncy, Benoit Huet and Simon Schenk -- References 281 -- Author Index 301 -- Subject Index 303.

Sommario/riassunto

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.
