

Towards A Multifunctional Lexical Resource

[DOWNLOAD HERE](#)

1; Table of contents; 6 2; 1 Preface; 16 3; 2 Introduction; 18 3.1; 2.1 Computational Lexicography; 18 3.2; 2.2 Function Theory; 19 3.2.1; 2.2.1 Definition of a Lexicographical Function; 19 3.2.2; 2.2.2 The Concept of a Leximat; 20 3.3; 2.3 Multifunctionality; 21 3.4; 2.4 Objectives and Contributions of this Book; 22 4; 3 Requirements Analysis and State of the Art; 25 4.1; 3.1 Requirements Analysis; 25 4.1.1; 3.1.1 Requirements on the Description; 25 4.1.2; 3.1.2 Formal and Technical Requirements; 28 4.1.3; 3.1.3 Multifunctional Requirements; 30 4.1.4; 3.1.4 Implications on the Design of the MLR; 33 4.2; 3.2 Overview of the State of the Art; 35 4.2.1; 3.2.1 Traditional Approaches; 36 4.2.2; 3.2.2 Recent Computational Lexical Resources and Models; 37 4.2.3; 3.2.3 Interfaces to Electronic Dictionaries for Human Users; 45 4.2.4; 3.2.4 Summary; 50 5; 4 A Graph-based Formalism for Representing Lexical Information; 53 5.1; 4.1 Brief History of the Semantic Web; 53 5.1.1; 4.1.1 The World Wide Web; 53 5.1.2; 4.1.2 Recent Developments; 54 5.2; 4.2 Formalisms, Query Languages and Tools; 55 5.2.1; 4.2.1 URIs, IRIs and XML Namespaces; 55 5.2.2; 4.2.2 XML, DTDs and XML Schema; 57 5.2.3; 4.2.3 RDF and RDF Schema; 59 5.2.4; 4.2.4 OWL; 60 5.2.5; 4.2.5 Rule Languages; 66 5.2.6; 4.2.6 Query Languages; 67 5.2.7; 4.2.7 Tools; 69 5.2.8; 4.2.8 Criticism of the Layer Cake Diagram; 72 5.3; 4.3 Benefits of Semantic Web Formalisms for Computational Lexicography; 72 5.3.1; 4.3.1 Types and Restrictions; 73 5.3.2; 4.3.2 Graph Interpretation and Modularity; 73 5.3.3; 4.3.3 Underspecification and Inference; 74 5.3.4; 4.3.4 Consistency Checking and Data Integrity; 76 5.3.5; 4.3.5 OWL DL and Beyond; 78 6; 5 Components of the Multifunctional Lexicon Model; 80 6.1; 5.1 Lexical Entities; 81 6.1.1; 5.1.1 Lexemes, Forms and Senses; 81 6.1.2; 5.1.2 Types of Lexemes; 84 6.1.3; 5.1.3 Lexical Relations; 90 6.2; 5.2 Descriptive Entities; 97 6.2.1; 5.2.1 Basic Modelling Decisions; 97 6.2.2; 5.2.2 Simple Data Categories; 99 6.2.3; 5.2.3 Form Description; 101 6.2.4; 5.2.4 Valence Description; 101 6.2.5; 5.2.5 Illustrative Description; 116 6.2.6; 5.2.6 Preference Description; 117 6.3; 5.3 Formalisation in Description Logics; 118 6.3.1; 5.3.1 Lexical Entities in General; 119 6.3.2; 5.3.2 Specific Types of Lexemes; 121 6.4; 5.4 Modelling Lexicographical Functions and NLP Requirements; 123 6.4.1; 5.4.1 Preliminary Remarks; 123 6.4.2; 5.4.2 Types of Users and User Situations; 124 6.4.3; 5.4.3 Access and Presentation Status; 125 6.4.4; 5.4.4 Labels and Interface Languages; 127 6.4.5; 5.4.5 Putting

Things Together: User Profiles;127 6.4.6;5.4.6 NLP Profiles;138 6.5;5.5 Architecture of the MLR Model;139 6.5.1;5.5.1 Interrelationships between Components of the MLR Model;139 6.5.2;5.5.2 Bilingual and Multilingual Perspectives;140 6.5.3;5.5.3 Metrics of the MLR Model;142 7;6 Towards a Multifunctional Lexical Resource;143 7.1;6.1 Lexicon Compilation;143 7.1.1;6.1.1 Extraction and Unification of Data from Existing Resources;143 7.1.2;6.1.2 Consistency Control;150 7.1.3;6.1.3 Workflow of the Lexicon Compilation Process;156 7.2;6.2 User-oriented Lexicon Access and Presentation;159 7.2.1;6.2.1 Access and Presentation in the Sesame Workbench;159 7.2.2;6.2.2 Access through a Custom Graphical User Interface;161 7.2.3;6.2.3 Function-based Presentation of Lexical Entries;168 7.3;6.3 NLP-oriented Lexicon Access and Data Export;173 7.3.1;6.3.1 Application Programming Interfaces;174 7.3.2;6.3.2 Data Export;177 7.4;6.4 Sketch of an MLR Architecture;180 7.4.1;6.4.1 Basic Components;180 7.4.2;6.4.2 Processing Steps in a Human Usage Scenario;181 8;7 Conclusion and Future Work;183 8.1;7.1 Conclusion;183 8.2;7.2 Further Lines of Research;186 9;8 Deutsche Zusammenfassung;189 10;9 English Summary;196 11;10 Bibliography;202 12;Appendix;212 EAN/ISBN : 9783110271232 Publisher(s): De Gruyter Discussed keywords: Wrtterbuch Format: ePub/PDF Author(s): Spohr, Dennis

[DOWNLOAD HERE](#)

Similar manuals:

[Towards A Multifunctional Lexical Resource](#)