

Contents

| | List | of figures | page viii |
|---|------|--|-----------|
| | List | of tables | X |
| | Pref | ace | xiii |
| | Ackı | nowledgements | xiv |
| I | Anto | onymy and antonyms | I |
| | I.I | Introduction | I |
| | 1.2 | Defining antonymy and oppositeness | 2 |
| | 1.3 | Key perspectives on antonymy and opposition | 6 |
| | | 1.3.1 Classical and Structuralist perspectives | 6 |
| | | 1.3.2 Relation by Contrast | 8 |
| | | 1.3.3 Previous Cognitive approaches | 10 |
| | 1.4 | Methods for studying antonymy | 13 |
| | | 1.4.1 Psycholinguistic investigations | 13 |
| | | 1.4.2 Corpus-based approaches to antonymy | 14 |
| | 1.5 | The goals of this book | 16 |
| 2 | Anto | onyms in context | 20 |
| | 2.I | Introduction | 20 |
| | 2.2 | Sentential co-occurrence of antonyms | 20 |
| | | 2.2.1 Applying co-occurrence statistics | 22 |
| | 2.3 | Discourse functions of antonymy | 26 |
| | | 2.3.1 Major discourse functions of antonymy | 28 |
| | | 2.3.2 Minor discourse functions of antonymy | 32 |
| | | 2.3.3 Residual discourse functions | 37 |
| | | 2.3.4 Distribution of discourse functions | 40 |
| | 2.4 | Summary | 42 |
| 3 | Anto | onyms and canonicity | 43 |
| | 3.1 | Good and bad antonyms | 43 |
| | 3.2 | Lexical-categorical approach vs. conceptual | |
| | | approach | 43 |
| | 3.3 | Assessing canonicity through judgement experiment | |
| | 3.4 | Assessing canonicity through elicitation experiments | |
| | | | |



vi Contents

| | 3.5 | Assessing frequency of co-occurrence using word | |
|---|------|---|-----|
| | | recognition | 55 |
| | 3.6 | Assessing canonicity through web-based | |
| | | retrieval methods | 57 |
| | | 3.6.1 Identifying antonyms using web-as- | |
| | | corpus techniques | 58 |
| | | 3.6.2 Towards a text-based threshold | 62 |
| | | 3.6.3 Searching Ancillary Antonymy frames | 65 |
| | | 3.6.4 Procedural limitations | 68 |
| | 3.7 | Conclusion | 69 |
| 4 | Anto | onyms in acquisition | 71 |
| + | 4. I | What does it mean to 'acquire antonymy'? | 71 |
| | 4.2 | When do children start using antonyms? | 71 |
| | 4.3 | Which antonyms do children use? | 75 |
| | 4.4 | Do all children acquire and use antonyms in | 73 |
| | 7.7 | the same way? | 77 |
| | 4.5 | How do children use antonyms? | 79 |
| | 4.6 | Does familiarity with antonyms aid | 19 |
| | Τ. Υ | vocabulary acquisition? | 83 |
| _ | Λ | • | |
| 5 | | onyms and negation | 88 |
| | 5. I | Antonyms and their negations | 88 |
| | 5.2 | Negation | 89 |
| | 5.3 | UNBOUNDED and BOUNDED meanings | 90 |
| | 5.4 | Interpretation of negated and non-negated antonym constructions | 0.0 |
| | | | 93 |
| | 5·5 | The BOUNDEDNESS hypothesis Negated constructions in discourse | 96 |
| | 5.6 | • | 97 |
| | 5.7 | Summary and implications | 100 |
| 6 | Anto | onyms as constructions | 102 |
| | 6.1 | Introduction | 102 |
| | 6.2 | Construction Grammar | 103 |
| | 6.3 | Contrastive constructions and discourse functions of | |
| | | antonyms | 105 |
| | 6.4 | Antonym pairs as lexical constructions | ΙΙΙ |
| | | 6.4.1 Why antonym pairs are constructions | ΙΙΙ |
| | | 6.4.2 The Antonym Construction and its | |
| | | formalization | 116 |
| | | 6.4.3 Ordering of antonyms | 121 |
| | 6.5 | Ancillary Antonymy revisited | 123 |
| | 6.6 | Summary and conclusions | 125 |
| 7 | The | cognitive construal account | 127 |
| • | | Introduction | 127 |



| | | Contents | vii |
|---|------|--|-----|
| | 7.2 | The LOC framework | 129 |
| | | 7.2.1 Lexical Meaning as Ontologies and Construals | 129 |
| | 7.3 | Antonymy in the LOC model | 133 |
| | | 7.3.1 The configuration of antonymy | 134 |
| | | 7.3.2 Categorization by content | 136 |
| | 7.4 | Summary and implications | 142 |
| 8 | Con | clusions – looking backward, looking forward | 145 |
| | 8.1 | Looking backward | 145 |
| | 8.2 | Looking forward | 149 |
| | 8.3 | Summary: constructs, constructions, and canonicity | 152 |
| | Refe | rences | 154 |
| | Inde | xx | 166 |



Figures

| I.I | The schematicity of adjectival meanings in English (Paradis | |
|------|---|-------|
| | 2001:54) pa | ge 11 |
| 1.2 | Conceptualization of the non-scalar adjectives alive and dead | 12 |
| 1.3 | Conceptualization of the scalar antonyms short and long | 12 |
| 2. I | Parallelism and repetition in example (2) | 29 |
| 2.2 | Parallelism and repetition in example (4) | 29 |
| 2.3 | Distributions of antonym discourse functions across | |
| | six corpora | 40 |
| 3. I | Direct and indirect antonym relations in WordNet. Wet | |
| | and dry are direct antonyms, and members of their synonym | |
| | sets appear in crescents around them. The synonyms of the | |
| | direct antonyms are in indirect antonym relations to one | |
| | another and to wet and dry. (Adapted from Gross and Miller | |
| | 1990:268.) | 44 |
| 3.2 | Mean responses for canonical antonyms, non-canonical | |
| | antonyms, synonyms, and unrelated word pairs | 49 |
| 3.3 | Mean response times for canonical antonyms, non-canonical | |
| | antonyms, synonyms, and unrelated word pairs | 51 |
| 3.4 | Distribution of antonyms in the elicitation experiment. | |
| | The Y-axis gives the test items, with every tenth test item | |
| | written in full; the X-axis gives the number of suggested | |
| | antonyms across the participants given on the Z-axis | 52 |
| 3.5 | Relations between good, bad, evil, and mediocre, based on the | |
| | elicitation experiment. The number of responses is marked | |
| | by each arrow | 53 |
| 3.6 | Dendrogram of the bidirectional data in the elicitation | |
| | experiment | 54 |
| 4. I | Interaction of contrast-emphasizing versus | |
| | contrast-minimizing input with user type (Murphy and | |
| | Jones 2008) | 83 |
| 5. I | The square of opposition (Parsons 2006) | 89 |
| 5.2 | Example of a trial screen from the experiment, | |
| | translated into English | 91 |

viii



| | List of figures | ix |
|------|---|-----|
| 5.3 | Conceptualization of the antonymous pair empty and full | 93 |
| 6. ı | The active-passive antonym construction | 117 |
| 6.2 | The Antonym Construction | 119 |
| 6.3 | Unification of a contrastive construction and an antonym | |
| | construction | 120 |
| 7. I | An ontological structure divided into two antonymic parts | 135 |



Tables

| I.I | Distribution of antonyms across word classes in | |
|------|---|--------|
| | CCALED (Paradis and Willners 2007) | page 4 |
| 1.2 | Most frequent English words and their canonical | |
| | antonyms | 5 |
| 2.I | Intrasentential co-occurrence of Deese's adjective pairs | |
| | in the British National Corpus | 22 |
| 2.2 | Top ten co-occurring adjective pairs in Stockholm- | |
| | Umeå corpus | 24 |
| 2.3 | Seven corresponding canonical antonym pairs in | |
| | English and Swedish | 24 |
| 2.4 | Sentential co-occurrences of adjectives along the SPEED | |
| - | dimension | 25 |
| 2.5 | Corpora used in studies of the discourse functions | |
| | of antonymy | 27 |
| 2.6 | Ancillary Antonymy across corpora | 30 |
| 2.7 | Coordinated Antonymy across corpora | 32 |
| 2.8 | Transitional Antonymy across corpora | 33 |
| 2.9 | Negated Antonymy across corpora | 34 |
| 2.10 | Interrogative Antonymy across corpora | 35 |
| 2.11 | Comparative Antonymy across corpora | 36 |
| 2.12 | Distinguished Antonymy across corpora | 37 |
| 2.13 | Residual antonyms across corpora | 38 |
| 3.1 | Test items for the judgement experiment | 48 |
| 3.2 | Mean responses, standard deviations, and categorization | |
| | of the word pairs in the test set | 50 |
| 3.3 | Experimental conditions of the priming experiment | 56 |
| 3.4 | Ten stimulus words (and their responses) from Paradis | |
| | et al. 2009; seed words for Jones et al. 2007 in bold | 59 |
| 3.5 | Web search strings used in Jones <i>et al.</i> 2007 (asterisk = | |
| | search wildcard) | 60 |
| 3.6 | Total number and proportion of antonyms retrieved by | |
| | soft in $> 0.1\%$ of searches (Iones 2010:57) | 62 |

X



| | List of tables | s xi |
|------|---|------|
| 3.7 | Antonyms retrieved in ten or more frames (Jones et al. | |
| | 2007:143) | 63 |
| 3.8 | Antonym pairs meeting all thresholds set | 64 |
| 3.9 | Nouns retrieved in ten or more contexts when facts is | |
| | searched in the short on X, long on Y frame | 67 |
| 4. I | Percentage 'adult-correct' answers vs. semantically | |
| | appropriate 'incorrect' answers in 4- to 5-year-olds | 76 |
| 4.2 | Mean co-occurrence of members of 66 antonym pairs | |
| - | per 100,000 words (Murphy and Jones 2008) | 77 |
| 4.3 | Adult antonym co-occurrence per 100,000 words (Input) | |
| | and child use per 100,000 words divided by use in input per | |
| | 100,000 words (Use/Input Factor) | 79 |
| 4.4 | Proportions of antonym functions by age and speaker: | |
| | Child (C), Input (I) (Murphy and Jones 2008) | 80 |
| 4.5 | Percentage antonym function types by heavy and light | |
| | antonym users (adapted from Murphy and Jones 2008) | 81 |
| 4.6 | Percentage antonym function types in input to heavy | |
| | and light antonym users (adapted from Murphy | |
| | and Jones 2008) | 82 |
| 5. I | Examples of antonyms from the test sets of negated and | |
| | non-negated antonyms (Paradis and Willners 2006, | |
| | submitted) | 92 |
| 5.2 | Speakers' interpretations of individual adjective | |
| | meanings in relation to their negated antonyms | 94 |
| 5.3 | Three types of antonym pairs with and without negation | 95 |
| 7. I | Ontologies and cognitive processes in meaning construction, | ,,, |
| • | adapted from Paradis 2005 | 130 |