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5. Arabic morphological analyzer
6. Arabic treebank and parallel English treebank; 7. Arabic-English word alignment; 8. Additional resources; References; Using morphology to improve Example-Based Machine Translation; 1. Introduction; 2. Example-Based Machine Translation: What is it and why use it?; 3. Adding morphology to EBMT for Arabic-to-English translation; 3.1 Generalization and morphological analysis in BAMA; 3.2 Phase 1: Focus on generalization and filtering; 3.2.1 Generalization; 3.2.2 Filtering; 3.2.3 Generalization and filtering are not enough
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6.4 Significance Test; 7. Conclusions; Acknowledgments; References; Preprocessing for English-to-Arabic statistical machine translation; 1. Introduction; 2. Morphological preprocessing for English-to-Arabic SMT; 2.1 Morphological segmentation of Arabic; 2.2 Recombination of segmented Arabic; 2.3 Experimental setup; 2.4 Experimental results; 3. Syntactic preprocessing for English-to-Arabic SMT; 3.1 Related work; 3.2 Reordering rules; 3.3 Experimental setup; 3.4 Results; 4. Summary; References; Lexical syntax for Arabic SMT; 1. Introduction
2. Related work

This book is the first volume that focuses on the specific challenges of machine translation with Arabic either as source or target language. It nicely fills a gap in the literature by covering approaches that belong to the three major paradigms of machine translation: Example-based, statistical and knowledge-based. It provides broad but rigorous coverage of the methods for incorporating linguistic knowledge into empirical MT. The book brings together original and extended contributions from a group of distinguished researchers from both academia and industry. It is a welcome and much-needed r