Speech and Language Processing: An Introduction to Natural Language Processing, Computational Linguistics and Speech Recognition (Second Edition)

By Daniel Jurafsky

Pearson Education, 2014. Softcover. Book Condition: New. 2nd edition. Speech and Language Processing is a comprehensive book on web-based language techniques. The book comprises of chapters which thoroughly cover the language technology including regular expressions and automata, part-of-speech tagging, phonetics, speech recognition, syntax and semantics and pragmatics. In addition, the book consists of extra chapters on statistical sequence labeling, information extraction, and speech synthesis. This book is essential for professionals and students of computer science engineering. Contents 1. Introduction Part I Words 2. Regular Expressions and Automata 3. Words and Transducers 4. N-grams 5. Part-of-Speech Tagging 6. Hidden Markov and Maximum Entropy Models Part II Speech 7. Phonetics 8. Speech Synthesis 9. Automatic Speech Recognition 10. Speech Recognition: Advanced Topics 11. Computational Phonology Part III Syntax 12. Formal Grammars of English 13. Syntactic Parsing 14. Statistical Parsing 15. Features and Unification 16. Language and Complexity Part IV Semantics and Pragmatics 17. The Representation of Meaning 18. Computational Semantics 19. Lexical Semantics 20. Computational Lexical Semantics 21. Computational Discourse Part V Applications 22. Information Extraction 23. Question Answering and Summarization 24. Dialogue and Conversational Agents 25. Machine Translation

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