



# Spoken Language Processing: A Guide to Theory, Algorithm and System Development

By Xuedong Huang, Alex Acero, Hsiao-Wuen Hon



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\*New advances in spoken language processing: theory and practice \*In-depth coverage of speech processing, speech recognition, speech synthesis, spoken language understanding, and speech interface design \*Many case studies from state-of-the-art systems, including examples from Microsofts advanced research labs Spoken Language Processing draws on the latest advances and techniques from multiple fields: computer science, electrical engineering, acoustics, linguistics, mathematics, psychology, and beyond. Starting with the fundamentals, it presents all this and more: \*Essential background on speech production and perception, probability and information theory, and pattern recognition \*Extracting information from the speech signal: useful representations and practical compression solutions \*Modern speech recognition techniques: hidden Markov models, acoustic and language modeling, improving resistance to environmental noises, search algorithms, and large vocabulary speech recognition \*Text-to-speech: analyzing documents, pitch and duration controls; trainable synthesis, and more \*Spoken language understanding: dialog management, spoken language applications, and multimodal interfaces. T

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