Speech Synthesis and Recognition, 2nd Edition

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With the growing impact of information technology on daily life, speech is becoming increasingly important for providing a natural means of communication between humans and machines. This extensively reworked and updated new edition of *Speech Synthesis and Recognition* is an easy-to-read introduction to current speech technology. Aimed at advanced undergraduates and graduates in electronic engineering, computer science and information technology, the book is also relevant to professional engineers who need to understand enough about speech technology to be able to apply it successfully and to work effectively with speech experts. No advanced mathematical ability is required and no specialist prior knowledge of phonetics or of the properties of speech signals is assumed. *Speech Synthesis and Recognition*: + Explains the complexity of speech communication; + Describes mechanisms and models of human speech production and perception; + Covers concatentive synthesis techniques and format synthesis by rule, as well as the processing required for synthesis from text; + Introduces methods for automatic speech recognition by whole-word template matching and by statistical pattern matching using hidden Markov methods + Describes practical techniques that contribute to the successful implementation of speech recognition systems, including those for recognizing very large vocabularies; + Includes chapters covering the related technologies of digital speech coding and automatic recognition of speaker characteristics; + Discusses applications and performance of current speech technology. Throughout the book the emphasis is on explaining underlying principles with sufficient but not unnecessary detail, so as to provide the reader with a thorough grounding in the problems and techniques in speech synthesis and recognition. This book is therefore ideal as an introduction before tackling more advanced texts.

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