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Soggetti	Signal processing Image processing Speech processing systems Acoustics Computational linguistics Pattern perception Signal, Image and Speech Processing Computational Linguistics Pattern Recognition
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Part 1: Vowel, Semi-vowels, Diphthongs -- Introduction -- Vowel -- Nasal Vowels -- Aspirated Vowels -- Diphthongs -- Semi-Vowels -- Part 2: Consonants -- Introduction -- Experimental Procedure -- Speech Material -- Acoustic Analysis -- EPG Analysis -- Summary.
Sommario/riassunto	This book presents the consolidated acoustic data for all phones in Standard Colloquial Bengali (SCB), commonly known as Bangla, a Bengali language used by 350 million people in India, Bangladesh and the Bengali diaspora. The book analyzes the real speech of selected native speakers of the Bangla dialect to ensure that a proper acoustical database is available for the development of speech technologies. The acoustic data presented here consists of averages and their normal spread, represented by the standard deviations of necessary acoustic parameters including e.g. formant information for multiple native speakers of both sexes. The study employs two important speech technologies, namely (1) text to speech synthesis (TTS) and (2)

automatic speech recognition (ASR). The procedures, particularly related to the use of technologies, are described in sufficient detail that researchers can use them in the creation of technical acoustic databases for any other Indian dialect. The book offers a unique resource for scientists and industrial practitioners who are interested in the acoustic analysis and processing of Indian dialects to develop similar dialect databases of their own.
