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Nota di contenuto	Preface -- Beyond Siri: Exploring Spoken Language in Warehouse Operations, Offender Monitoring and Robotics -- Speech's Evolving Role in Consumer Electronics...From Toys to Mobile -- The Personal-Assistant Model: Unifying the Technology Experience -- Natural Language Processing: Past, Present and Future -- Sequence Package Analysis: A New Natural Language Method for Mining User-Generated Content for Mobile Uses -- Getting Past the Language Gap: Innovations in Machine Translation -- Natural Language Technology in Mobile Devices: Two Grounding Frameworks -- Empirical Exploration of Language Modeling for the google.com Query Stream as Applied to Mobile Voice Search -- Information Extraction: Robust Mention Detection Systems -- A Name is Worth a Thousand Pictures: Referential Practice in Human Interactions with Internet Search Engines -- Summarizing Opinion-Related Information for Mobile Devices -- Mobile Speech and the Armed Services: Making a Case for Adding Siri-like Features to VAMTA (Voice-Activated Medical Tracking Application) -- Revisiting TTS – New Directions for Better Synthesis -- “Super-Natural” Language Dialogues: In Search of Integration -- Editors' biographies.

Sommario/riassunto

Mobile Speech and Advanced Natural Language Solutions provides a comprehensive and forward-looking treatment of natural speech in the mobile environment. This fourteen-chapter anthology brings together lead scientists from Apple, Google, IBM, AT&T, Yahoo! Research and other companies, along with academicians, technology developers and market analysts. They analyze the growing markets for mobile speech, new methodological approaches to the study of natural language, empirical research findings on natural language and mobility, and future trends in mobile speech. Mobile Speech opens with a challenge to the industry to broaden the discussion about speech in mobile environments beyond the smartphone, to consider natural language applications across different domains. Among the new natural language methods introduced in this book are Sequence Package Analysis, which locates and extracts valuable opinion-related data buried in online postings; microintonation as a way to make TTS truly human-like; and several models of truly-intelligent mobile personal-assistants. The empirical studies in this volume include two grounding frameworks for designing mobile interfaces capable of engaging in human-like interaction with users. The book concludes with a discussion of “supernatural dialogues” that blend music, space, and other domains with traditional elements of natural language processing. Mobile Speech and Advanced Natural Language Solutions is designed for speech engineers, system developers, linguists, cognitive scientists, and others interested in utilizing natural-language technology in diverse applications.
