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| Descrizione fisica      | 1 online resource (217 pages)   |
| Collana                 | Signals and Communication Technology, , 1860-4870   |
| Disciplina              | 371<br>006.35   |
| Soggetti                | Signal processing<br>Natural language processing (Computer science)<br>Computational linguistics<br>Speech processing systems<br>Signal, Speech and Image Processing<br>Natural Language Processing (NLP)<br>Computational Linguistics<br>Speech and Audio Processing   |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Nota di bibliografia    | Includes bibliographical references and index.  |
| Nota di contenuto       | Chapter 1. ITAcotron 2: the Power of Transfer Learning in Expressive TTS Synthesis -- Chapter 2. Improving Automatic Speech Recognition for Non-Native English with Transfer Learning and Language Model Decoding -- Chapter 3. Kabyle ASR Phonological Error and Network Analysis -- Chapter 4. ALP: an Arabic Linguistic Pipeline -- Chapter 5. Arabic Anaphora Resolution System using New Features: Pronominal and Verbal cases -- Chapter 6. A Commonsense-enhanced Document-Grounded Conversational Agent: A Case Study on Task-based Dialogue -- Chapter 7. BloomQDE: Leveraging Bloom's Taxonomy for Question Difficulty Estimation -- Chapter 8. A Comparative Study on Language Models for Dravidian Languages -- Chapter 9. Arabic Named Entity Recognition with a CRF model based on Transformer Architecture -- Chapter 10. Static Fuzzy Bag-of-Words: Exploring Static Universe |

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## Matrices for Sentence Embeddings.

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### Sommario/riassunto

This book presents recent advances in NLP and speech technology, a topic attracting increasing interest in a variety of fields through its myriad applications, such as the demand for speech guided touchless technology during the Covid-19 pandemic. The authors present results of recent experimental research that provides contributions and solutions to different issues related to speech technology and speech in industry. Technologies include natural language processing, automatic speech recognition (for under-resourced dialects) and speech synthesis that are useful for applications such as intelligent virtual assistants, among others. Applications cover areas such as sentiment analysis and opinion mining, Arabic named entity recognition, and language modelling. This book is relevant for anyone interested in the latest in language and speech technology.

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