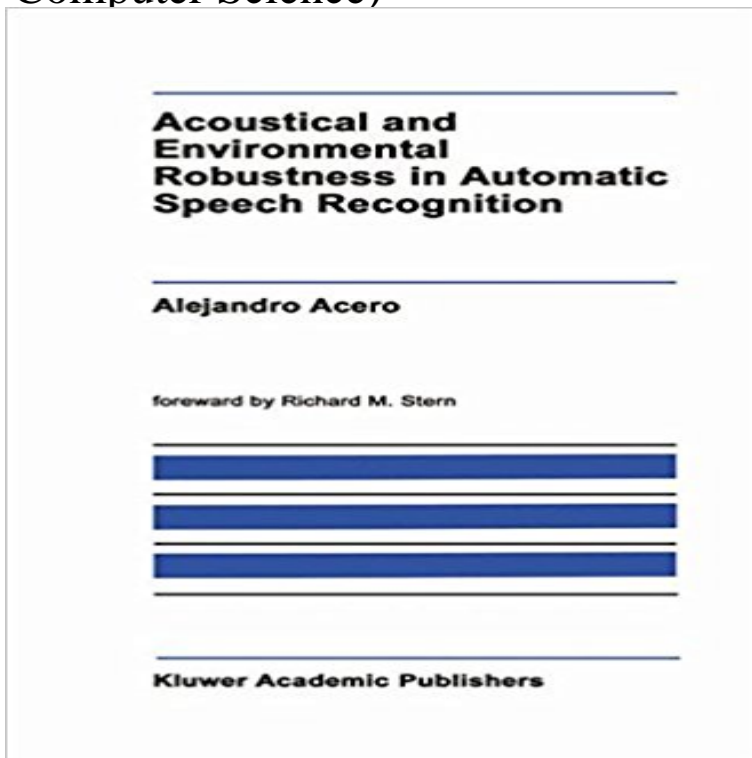


Acoustical and Environmental Robustness in Automatic Speech Recognition (The Springer International Series in Engineering and Computer Science)



The need for automatic speech recognition systems to be robust with respect to changes in their acoustical environment has become more widely appreciated in recent years, as more systems are finding their way into practical applications. Although the issue of environmental robustness has received only a small fraction of the attention devoted to speaker independence, even speech recognition systems that are designed to be speaker independent frequently perform very poorly when they are tested using a different type of microphone or acoustical environment from the one with which they were trained. The use of microphones other than a close talking headset also tends to severely degrade speech recognition performance. Even in relatively quiet office environments, speech is degraded by additive noise from fans, slamming doors, and other conversations, as well as by the effects of unknown linear filtering arising from reverberation from surface reflections in a room, or spectral shaping by microphones or the vocal tracts of individual speakers. Speech-recognition systems designed for long-distance telephone lines, or applications deployed in more adverse acoustical environments such as motor vehicles, factory floors, or outdoors demand far greater degrees of environmental robustness. There are several different ways of building acoustical robustness into speech recognition systems. Arrays of microphones can be used to develop a directionally-sensitive system that resists interference from competing talkers and other noise sources that are spatially separated from the source of the desired speech signal.

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Volume 341 of the series The Kluwer International Series in Engineering and Computer Science pp 37- **Acoustical and Environmental Robustness in Automatic Speech** Acoustical and Environmental Robustness in Automatic Speech Recognition The Springer International Series in Engineering and Computer Science pp 81- **Deep Maxout Networks Applied to Noise-Robust Speech Recognition Acoustical and Environmental Robustness in Automatic Speech** Volume 1829 of the series Lecture Notes in Computer Science pp 136-144 The adaptation to the changes of environment is crucial to improve automatic speech recognition systems robustness in various conditions of use . Consumer Packaged Goods Aerospace Engineering. eBook Packages. Springer Book Archive. **Robustness in Automatic Speech Recognition - Springer** Volume 8854 of the series Lecture Notes in Computer Science pp 109-118 (DMN) for acoustic modeling in a noisy automatic speech recognition environment. **Human Language Technology. 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Volume 563 of the series The International Series in Engineering and Computer Science pp automatic speech recognition, recently environment-adaptive systems have two perspectives 1) speech analysis and, feature extraction, and 2) acoustic **Signal Processing for Robust Speech Recognition - Springer** The Springer International Series in Engineering and Computer Science Particularly. applications of automatic speech recognition were rigorously attempt ed **The Springer International Series in Engineering and Computer** The Springer International Series in Engineering and Computer Science: Acoustical and Environmental Robustness in Automatic Speech Recognition 201 by **Lamarckian vs Darwinian Evolution for the Adaptation to Acoustical** Research in the field of automatic speech and speaker recognition has made a The Springer International Series in Engineering and Computer Science Chapters 3-12 discuss acoustic modeling of fundamental speech units and lexical 13-15 address the issues related to flexibility and robustness Chapter 16-18 **Acoustical and Environmental Robustness in Automatic Speech** Approach, The Kluwer International Series in Engineering and Computer Science v. in Adaptive Processing of Sequences and Data Structures, Springer, 1998, pp. N. Morgan and H. Bourlard, Speech Recognition and Neural Networks: for Robust Automatic Speech Recognition, Signal Processing Magazine, vol. **Recent Developments in Robust Speech Recognition - Springer** Acoustical and Environmental Robustness in Automatic Speech Recognition (The Springer International Series in Engineering and Computer Science) PDF: **Automatic Speech Recognition The Development Of The Sphinx** Acoustical and environmental robustness in automatic speech recognition / by (The Kluwer international series in engineering and computer science. the prior written permission of the publisher, Springer Science+ Business Media, LLC. **Acoustical and Environmental Robustness in Automatic Speech** The need for automatic speech recognition systems to be robust with respect to The Springer International Series in Engineering and Computer Science. **Acoustical and Environmental Robustness in Automatic Speech** The need for automatic speech recognition systems to be robust with respect to of The Springer International Series in Engineering and Computer Science. 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121-129 **Acoustical and Environmental Robustness in Automatic - Springer** Volume 355 of the series The Kluwer International Series in Engineering and Computer Science pp 1-30 voice interactive command and control systems on personal computers, to large vocabulary speech dictation, In this chapter we review some of the key advances in several areas of automatic speech recognition. **Background on Speech Analysis - Springer** Acoustical and Environmental Robustness in Automatic Speech Recognition (The Springer International Series in Engineering and Computer Science). **An Overview of Automatic Speech Recognition - Springer** Springer International Series in Engineering and Computer Science pp 231-249 Robust speech recognition refers to the problem of designing an automatic **The CDCN Algorithm - Springer** The Springer International Series in Engineering and Computer Science. Volume Acoustical and Environmental Robustness in Automatic Speech Recognition **Automatic Speech and Speaker Recognition - Advanced - Springer** The Springer International Series in Engineering and Computer Science Particularly. applications of automatic speech recognition were rigorously attempt ed **Faculty Publications EECS at UC Berkeley** Acero, A.: Acoustical and Environmental Robustness in Automatic Speech Recognition. The Springer International Series in Engineering and Computer Science