

Robust Automatic Speech Recognition A Bridge To Practical Applications

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Robust Automatic Speech Recognition A

Robust Automatic Speech Recognition: A Bridge to Practical Applications establishes a solid foundation for automatic speech recognition that is robust against acoustic environmental distortion. It provides a thorough overview of classical and modern noise-and reverberation robust techniques that have been developed over the past thirty years, with an emphasis on practical methods that have been proven to be successful and which are likely to be further developed for future applications.

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Robust Automatic Speech Recognition - 1st Edition

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Robust Automatic Speech Recognition | ScienceDirect

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[PDF] Robust Automatic Speech Recognition ebook ...

Authors:Keisuke Kinoshita, Tsubasa Ochiai, Marc Delcroix, Tomohiro Nakatani. With the advent of deep learning, research on noise-robust automatic speech recognition (ASR) has progressed rapidly. However, ASR performance in noisy conditions of single-channel systems remains unsatisfactory. Indeed, most single-channel speech enhancement (SE) methods (denoising) have brought only limited performance gains over state-of-the-art ASR back-end trained on multi-condition training data.

Improving noise robust automatic speech recognition with ...

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(PDF) Noise-Robust Automatic Speech Recognition

Traditionally, automatic speech recognition focuses on the recognition of the spoken word on the syntactical level [1]. Additionally, research addresses the recognition of the spoken language, the speaker, and the extraction of emotions. In the last decade music information retrieval became a popular domain [2]. It deals with retrieval of similar pieces of music, instruments, artists, musical genres, and the analysis of musical structures.

Automatic Speech Recognition - an overview | ScienceDirect ...

Automatic speech recognition can potentially benefit from the lip motion patterns, complementing acoustic speech to improve the overall recognition performance, particularly in noise. In this paper we propose an audio-visual fusion strategy that goes beyond simple feature concatenation and learns to automatically align the two

Attention-based Audio-Visual Fusion for Robust Automatic ...

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New waves of consumer-centric applications, such as voice search and voice interaction with mobile devices and home entertainment systems, increasingly require automatic speech recognition (ASR) to be robust to the full range of real-world noise and other acoustic distorting conditions.

An Overview of Noise-Robust Automatic Speech Recognition ...

Abstract: The performance of automatic speech recognition (ASR) systems can be significantly compromised by previously unseen conditions, which is typically due to a mismatch between training and testing distributions. In this paper, we address robustness by studying domain invariant features, such that domain information becomes transparent to ASR systems, resolving the mismatch problem.

Extracting Domain Invariant Features by Unsupervised ...

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Robust Automatic Speech Recognition eBook por Jinyu Li ...

Speech recognition is a highly complex field and it integrates signal processing, detection, linguistics, processing and many other elements. Simply stated, speech recognition takes a set of spoken words, converts them into "text" and then may allow the reconversion from text to speech. The latter step is relatively easy as compared to the first.

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