

Robust Automatic Speech Recognition A Bridge To Practical Applications

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terms: Automatic Speech Recognition - an overview | ScienceDirect ... Electrical Engineering and Systems Science > Audio and Speech Processing Title: Imperceptible, Robust, and Targeted Adversarial Examples for Automatic Speech Recognition Authors: Yao Qin , Nicholas Carlini , Ian Goodfellow , Garrison Cottrell , Colin Raffel [1903.10346] Imperceptible, Robust, and Targeted ... An Overview of Noise-Robust Automatic Speech Recognition Abstract: 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 ... In this paper we investigate the use of noise-robust features characterizing the speech excitation signal as complementary features to the usually considered vocal tract based features for Automatic Speech Recognition (ASR). The proposed Excitation-based Features (EBF) are tested in a state-of-the-ROBUST EXCITATION-BASED FEATURES FOR AUTOMATIC SPEECH ... Due to its high speech enhancement performance, we investigate the use of Deep Xi as a front-end for robust ASR. Deep Xi is evaluated using real-world non-stationary and coloured noise sources, at multiple SNR levels. Deep Xi as a Front-End for Robust Automatic Speech Recognition Imperceptible Adversarial Examples To construct imperceptible adversarial examples for automatic

speech recognition system, we use frequency masking, which refers to the phenomenon that a louder signal can make other signals at nearby frequencies imperceptible. We display two sets of audio examples below. Imperceptible, Robust and Targeted Adversarial Examples ... Prior models of speech have been used in robust automatic speech recognition to enhance noisy speech. Typically, a single prior model is trained by pooling the entire training data. (PDF) Robust Automatic Speech Recognition Adaptation of Deep Neural Network Acoustic Models for Robust Automatic Speech Recognition Khe Chai Sim, Yanmin Qian, Gautam Mantena, Lahiru Samarakoon, Souvik Kundu, Tian Tan Pages 219-243 New Era for Robust Speech Recognition | SpringerLink Chapters in the first part of the book cover all the essential speech processing techniques for building robust, automatic speech recognition systems: the representation for speech signals and the methods for speech-features extraction, acoustic and language modeling, efficient algorithms for searching the hypothesis space, and multimodal approaches ... Speech Recognition | IntechOpen Imperceptible, Robust, and Targeted Adversarial Examples for Automatic Speech Recognition Y akura, H. and Sakuma, J. Robust audio adversarial example for a physical attack. arXiv preprint (PDF) Imperceptible, Robust, and Targeted Adversarial ... In robust ASR, corrupted speech is normally enhanced using speech separation or enhancement algorithms before recognition. This paper presents a novel joint training framework for speech separation and recognition. The key idea is to concatenate a deep neural network (DNN) based speech separation frontend and a DNN-A Joint Training Framework for Robust Automatic Speech ... Robust Automatic Speech Recognition In the 21st Century Richard Stern (with Alex Acero, Yu-Hsiang Chiu, Evandro Gouvêa, Chanwoo Kim, Kshitiz Kumar, Amir Moghimi, Pedro Moreno, Hyung-Min Robust Automatic Speech Recognition In the 21st Century Robust automatic speech recognition (ASR), that with background noise and channel distortion, is a fundamental problem as ASR increasingly moves to mobile devices. Existing state-of-the-art methods for robust ASR use specialized domain knowledge to denoise the speech signal [1] or train a word-segment discriminative model robust to noise [2]. Electrical Engineering and Systems Science > Audio and Speech Processing Title: Imperceptible, Robust, and Targeted Adversarial Examples for Automatic

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