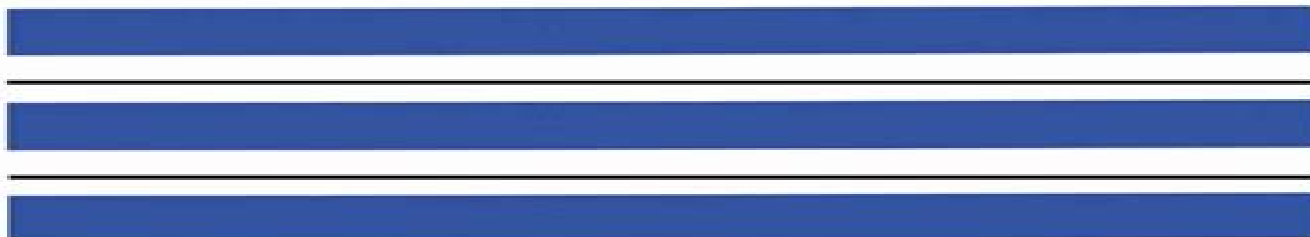

Acoustical and Environmental Robustness in Automatic Speech Recognition

Alejandro Acero

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Robustness In Automatic Speech Recogniti

**Tuomas Virtanen, Rita Singh, Bhiksha
Raj**



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Robust Automatic Speech Recognition Jinyu Li, Li Deng, Reinhold Haeb-Umbach, Yifan Gong, 2015-10-30 *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. The strengths and weaknesses of robustness enhancing speech recognition techniques are carefully analyzed. The book covers noise robust techniques designed for acoustic models which are based on both Gaussian mixture models and deep neural networks. In addition, a guide to selecting the best methods for practical applications is provided. The reader will gain a unified deep and systematic understanding of the state of the art technologies for robust speech recognition. Learn the links and relationship between alternative technologies for robust speech recognition. Be able to use the technology analysis and categorization detailed in the book to guide future technology development. Be able to develop new noise robust methods in the current era of deep learning for acoustic modeling in speech recognition. The first book that provides a comprehensive review on noise and reverberation robust speech recognition methods in the era of deep neural networks. Connects robust speech recognition techniques to machine learning paradigms with rigorous mathematical treatment. Provides elegant and structural ways to categorize and analyze noise robust speech recognition techniques. Written by leading researchers who have been actively working on the subject matter in both industrial and academic organizations for many years. [Robustness in Automatic Speech Recognition](#) Jean-Claude Junqua, Jean-Paul Haton, 2012-12-06 Foreword Looking back the past 30 years we have seen steady progress made in the area of speech science and technology. I still remember the excitement in the late seventies when Texas Instruments came up with a toy named Speak and Spell which was based on a VLSI chip containing the state of the art linear prediction synthesizer. This caused a speech technology fever among the electronics industry. Particularly applications of automatic speech recognition were rigorously attempted by many companies, some of which were start-ups founded just for this purpose. Unfortunately, it did not take long before they realized that automatic speech recognition technology was not mature enough to satisfy the need of customers. The fever gradually faded away. In the meantime, constant efforts have been made by many researchers and engineers to improve the automatic speech recognition technology. Hardware capabilities have advanced impressively since that time. In the past few years, we have been witnessing and experiencing the advent of the Information Revolution. What might be called the second surge of interest to commercialize speech technology as a natural interface for man-machine communication began in much better shape than the first one. With computers much more powerful and faster, many applications look realistic this time. However, there are still tremendous practical issues to be overcome in order for speech to be truly the most natural interface between humans and machines.

Techniques for Noise Robustness in Automatic Speech Recognition Tuomas Virtanen, Rita Singh, Bhiksha

Raj, 2012-11-28 Automatic speech recognition ASR systems are finding increasing use in everyday life. Many of the commonplace environments where the systems are used are noisy, for example, users calling up a voice search system from a busy cafeteria or a street. This can result in degraded speech recordings and adversely affect the performance of speech recognition systems. As the use of ASR systems increases, knowledge of the state of the art in techniques to deal with such problems becomes critical to system and application engineers and researchers who work with or on ASR technologies. This book presents a comprehensive survey of the state of the art in techniques used to improve the robustness of speech recognition systems to these degrading external influences. Key features: Reviews all the main noise robust ASR approaches including signal separation, voice activity detection, robust feature extraction, model compensation and adaptation, missing data techniques, and recognition of reverberant speech. Acts as a timely exposition of the topic in light of more widespread use in the future of ASR technology in challenging environments. Addresses robustness issues and signal degradation, which are both key requirements for practitioners of ASR. Includes contributions from top ASR researchers from leading research units in the field.

Speech Recognition Over Digital Channels Antonio Peinado, Jose Segura, 2006-08-04 Automatic speech recognition ASR is a very attractive means for human machine interaction. The degree of maturity reached by speech recognition technologies during recent years allows the development of applications that use them. In particular, ASR shows an enormous potential in mobile environments where devices such as mobile phones or PDAs are used and for Internet Protocol (IP) applications. *Speech Recognition Over Digital Channels* is the first book of its kind to offer a complete system comprehension addressing the topics of distributed and network based speech recognition issues and standards, the concepts of speech processing and transmission, and system architectures and robustness. Describes the different client server architectures for remote speech recognition systems by means of which the client transmits speech parameters through a digital channel to a remote recognition server. Focuses on robustness against both adverse acoustic environments in the front end and bit errors, packet loss. Discusses four ETSI standards for distributed speech recognition, the understanding of the standards and the technologies behind them. Provides the necessary background for the comprehension of remote speech recognition technologies. This book will appeal to a wide ranging audience: engineers using speech recognition systems, researchers involved in ASR systems and those interested in processing and transmitting speech such as signal processing and communications communities. It will also be of interest to technical experts requiring an understanding of recognition over mobile and IP networks and postgraduate students working on robust speech processing.

Acoustical and Environmental Robustness in Automatic Speech Recognition Alex Acero, 2013-07-13 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 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

Noise Robustness in Automatic Speech Recognition Chia-Ping Chen, 2004 Acoustical and Environmental Robustness in Automatic Speech Recognition A. Acero, 2012-12-06 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 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 Robustness in Automatic Speech Recognition Hang Shun Lee, 1997 **Robust Automatic Speech Recognition** Jinyu Li, Li Deng, Yifan Gong, Reinhold Haeb-Umbach, 2015-10-15 Robust Automatic Speech Recognition A Bridge to Practical Applications establishes a solid and consistent foundation for noise robust automatic speech recognition ASR and provides a thorough overview of modern noise robust techniques which have been developed over the past 30 years The book emphasizes practical methods

that are proven to be successful also discussing those that are likely to be developed further for future applications In addition the pros and cons of using noise robust ASR techniques for different applications are given providing users with a practical guide to selecting the best methods for future applications Connects noise robust speech recognition methods to machine learning technologiesContains a unified state of the art survey of successful noise robust speech recognition technologiesProvides several ways to classify noise robust speech recognition technologies into different categoriesAuthored by leading researchers at Microsoft *Toward Robustness in Isolated-word Automatic Speech Recognition* Jean-claude Junqua,1989

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