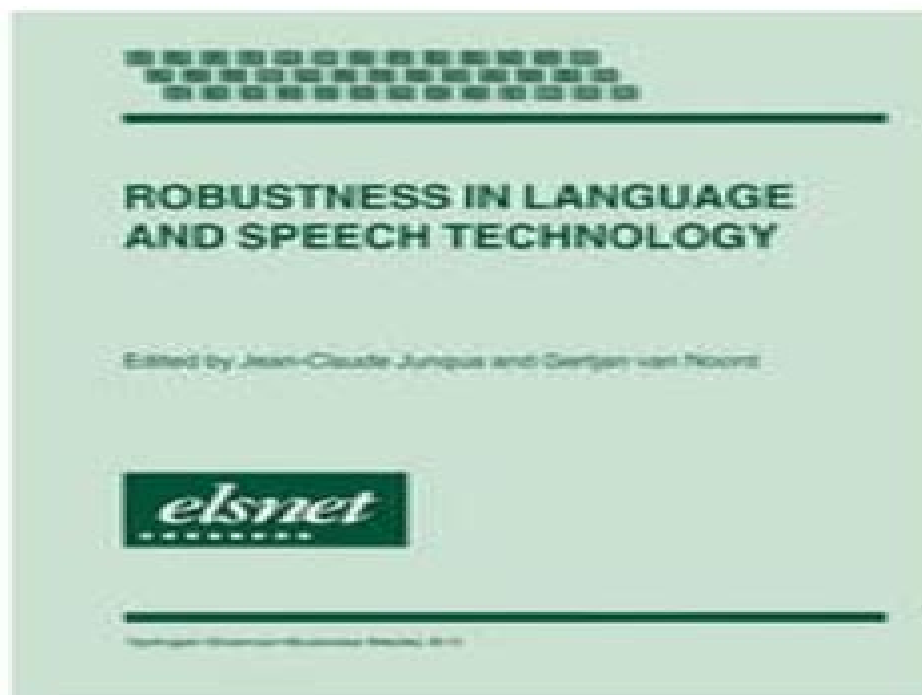


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Robustness In Languages And Speech Technology



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Robustness In Languages And Speech Technology:

Robustness in Language and Speech Technology Jean-Claude Junqua, Gertjan van Noord, 2013-03-09 In this book we address robustness issues at the speech recognition and natural language parsing levels with a focus on feature extraction and noise robust recognition adaptive systems language modeling parsing and natural language understanding This book attempts to give a clear overview of the main technologies used in language and speech processing along with an extensive bibliography to enable topics of interest to be pursued further It also brings together speech and language technologies often considered separately Robustness in Language and Speech Technology serves as a valuable reference and although not intended as a formal university textbook contains some material that can be used for a course at the graduate or undergraduate level

Techniques for Noise Robustness in Automatic Speech Recognition Tuomas Virtanen, Rita Singh, Bhiksha Raj, 2012-09-19 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

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 [DARPA Speech/Language Proceedings 1989](#), 1989-05 [Proceedings of the Spoken Language Systems Technology Workshop](#), 1995 [Contrastive Learning for Improving Speech Recognition Robustness in Spoken Language Understanding](#) [1], 2022 [Computational Linguistics](#), 2001 [Speech and Natural Language](#), 1989 **IEEE ... Workshop on Multimedia Signal Processing**, 2004 **Robustness-Related Issues in Speaker Recognition** Thomas Fang Zheng, Lantian Li, 2017-04-06 This book presents an overview of speaker recognition technologies with an emphasis on dealing with robustness issues Firstly the book gives an overview of speaker recognition such as the basic system framework categories under different criteria performance evaluation and its development history Secondly with regard to robustness issues the book presents three categories including environment related issues speaker related issues and application oriented issues For each category the book describes the current hot topics existing technologies and potential research focuses in the future The book is a useful reference book and self learning guide for early researchers working in the field of robust speech recognition [Human Language Technology](#), 1993 [2000 IEEE International Conference on Acoustics,](#)

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