Speech Recognition In Adverse Conditions Explorations In

Behaviour And Neuroscience Author Sven Mattys Jun 2013

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One-against-All Weighted Dynamic Time Warping for Language ...

is associated with improved speech recognition in adverse conditions. This effect was salient in mid-range adverse listening

conditions, but was not apparent in highly favourable and extremely poor listening conditions. The results were interpreted to suggest that in moderately adverse listening conditions listeners with larger lexicons

Non-native speech perception in adverse conditions: A ...

It is essential that the individual and environmental factors that limit speech understanding are identified in order to maximize the benefit older adults with hearing loss may receive from amplified speech in adverse listening conditions.

An efficient speech recognition system in

adverse ...

Speech recognition in adverse conditions: A review \/ Sven L. Mattys, Ann R. Bradlow, Matthew H. Davis and Sophie K. Scott -- 2. Talker-specific perceptual adaptation during online speech perception \/ Alison M. Trude and Sarah Brown-Schmidt -- 3. Effects of dialect variation on the semantic predictability

benefit \/ Cynthia G. Clopper -- 4.

(PDF) Auditory Working Memory Explains Variance in Speech ...

4. The effect of adverse conditions on speech recognition. Adverse conditions experienced in everyday speech understanding result in added energy from other source sources,

reverberant energy from reflecting surfaces, and channel distortions.

Speech recognition in adverse conditions: A review ...

Speech recognition in adverse conditions: A review Sven L. Mattys1, Matthew H. Davis2, Ann R. Bradlow3, and Sophie K. Scott4 1Department of Psychology, University of

York, York, UK 2Medical Research Council, Cognition and Brain Sciences Unit, Cambridge, UK 3Department of Linguistics, Northwestern University, Evanston, IL, USA 4Institute of Cognitive Neuroscience, University College London ...

Amazon.com: Speech Recognition in Adverse

Conditions ...

Speech recognition in 'adverse conditions' has been a familiar area of research in computer science, engineering, and hearing sciences for several decades. In contrast, most psycholinguistic theories of speech recognition are built upon evidence gathered from tasks performed by healthy

listeners on carefully recorded speech, in a quiet environment, and under conditions of undivided attention.

Speech Recognition in Adverse Conditions eBook by ...

Adverse conditions – Environmental noise (e.g. Noise in a car or a factory). Acoustical distortions (e.g. echoes,

room acoustics) Speech recognition is a multi-levelled pattern recognition task. Acoustical signals are structured into a hierarchy of units, e.g. Phonemes, Words, Phrases, and Sentences; Each level provides additional constraints;

Speech Recognition in Adverse Conditions:

Explorations in ...

We conclude by advocating an approach to speech recognition that includes rather than neutralises complex listening environments and individual differences. AB - This article presents a review of the effects of adverse conditions (ACs) on the perceptual, linguistic, cognitive, and neurophysiological

mechanisms underlying speech recognition.

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recorded speech, in a quiet environment, and under conditions of undivided ...

Speech recognition - Wikipedia

speech recognition performance in adverse listening conditions for older listeners. A linear regression model showed speech recognition performance for older listeners could be

Auditory, Cognitive, and Linguistic Factors Predict Speech ...

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Speech Recognition in Adverse Conditions - Sven Mattys ...

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adverse conditions (ACs) on the perceptual, linguistic, cognitive, and neurophysiological mechanisms underlying speech recognition.

DOES VOCABULARY KNOWLEDGE INFLUENCE SPEECH RECOGNITION IN ...

Therefore, speech recognition systems usually fall to identify

them in adverse conditions. On the other hand, one of the most critical problems in speech recognition is the inter speakers variability, which made the digits pronounced in different manners, around the pattern roots according to the regional and ethnic origin.

Speech Recognition in

Adverse Conditions : Sven Mattys ...

T1 - Auditory, Cognitive, and Linguistic Factors Predict Speech Recognition in Adverse Listening Conditions for Children With Hearing Loss. AU - McCreery, Ryan W. AU - Walker, Elizabeth A. AU - Spratford, Meredith. AU - Lewis, Dawna. AU - Brennan, Marc. PY -

2019/10/15. Y1 - 2019/10/15

Maximizing speech recognition under adverse listening ...

Even though we have successfully developed two fast and accurate DTW variations for clean speech data, speech recognition for adverse conditions is still a big challenge. In order to

improve recognition accuracy in noisy environment and bad recording conditions such as too high or low volume, we introduce a novel one-against-all weighted DTW (OAWDTW).

Speech recognition in adverse conditions: A review

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conditions: A review | This article presents a review of the effects of adverse conditions (ACs) on the perceptual, linguistic, cognitive, and ...

Speech Recognition In Adverse Conditions

The protracted developmental time course for speech recognition in

adverse listening conditions in typically developing children has been attributed to the parallel maturation of cognitive and linguistic skills (Sullivan et al., 2015; McCreery et al., 2017; MacCutcheon et al., 2019).

Speech recognition in adverse conditions - Research ...

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Auditory, Cognitive, and Linguistic Factors Predict Speech ...

(2012). Speech recognition in adverse conditions: A review. Language and Cognitive Processes: Vol. 27, Speech Recognition in Adverse

Conditions, pp. 953-978.