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Speech Recognition In Adverse Conditions
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 ...

Speech recognition in adverse conditions: A review
(2012). Speech recognition in adverse conditions: A review. Language and Cognitive Processes: Vol. 27, Speech Recognition in Adverse Conditions, pp. 953-978.

Speech recognition in adverse conditions: A review ...
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 ...

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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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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.

Speech recognition in adverse conditions: A review ...
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Speech Recognition in Adverse Conditions : Sven Mattys ...
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.

An efficient speech recognition system in adverse ...
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-leveled 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 - Wikipedia
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).

Auditory, Cognitive, and Linguistic Factors Predict Speech ...
Hanson B.A., Applebaum T.H., Junqua JC. (1996) Spectral Dynamics for Speech Recognition Under Adverse Conditions. In: Lee CH., Soong F.K., Paliwal K.K. (eds) Automatic Speech and Speaker Recognition. The Kluwer International Series in Engineering and Computer Science (VLSI, Computer Architecture and Digital Signal Processing), vol 355.

Spectral Dynamics for Speech Recognition Under Adverse ...
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.

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Auditory, Cognitive, and Linguistic Factors Predict Speech Recognition in Adverse Listening Conditions for Children With Hearing Loss. McCreery RW(1), Walker EA(2), Spratford M(1), Lewis D(1), Brennan M(3). Author information: (1)The Audibility Perception and Cognition Laboratory, Boys Town National Research Hospital, Omaha, NE, United States.

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

Maximizing speech recognition under adverse listening ...
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.

Speech recognition in adverse conditions : explorations in ...
Several studies were conducted aiming to improve the robustness of SND used for speech recognition in adverse conditions. The present paper proposes some solutions aiming to improve SND in wireless environment. Speech enhancement prior detection is considered.

Towards improving speech detection robustness for speech ...
Better aided speech audibility was associated with better recognition in noise and noise plus reverberation conditions for children with hearing loss. Speech audibility had direct effects on speech recognition in noise and reverberation and cumulative effects on speech recognition in noise through a positive association with language development over time.