

Speech Processing In The Auditory System Springer Handbook Of Auditory Research

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Speech Processing In The Auditory

Large-scale single-neuron recordings from hearing-impaired gerbils show that compression and amplification algorithms used in hearing aids restore the sensitivity of neural responses to speech, but ...

Compression and amplification algorithms in hearing aids impair the selectivity of neural responses to speech

They use acoustically modified speech to remediate the auditory processing deficit but also tap phonologic skills. FastForWord was developed based on scientific evidence of the relationship ...

Current Status of Treatments for Dyslexia: Critical Review

Human beings have the ability to recognize emotions in others, but the same cannot be said for robots. Although perfectly capable of communicating ...

Cognitive neuroscience could pave way for emotionally intelligent robots

The use of auditory feedback to tune motor programs for the speech articulators has long been recognized ... on feedback control mechanisms given the time lags inherent in neural processing of sensory ...

Neural Control of Speech

and hands-on MATLAB® examples on topics as diverse as psychoacoustics (including some auditory illusions), voice changers, speech compression, signal analysis and visualisation, stereo processing, low ...

Speech and Audio Processing

In order to limit the decrease in performance of these modules in the presence of noise, speech enhancement (SE) algorithms are used to reduce the noise without affecting the speech quality. Despite ...

(MScA - PhD) Design and implementation of spiking neural networks for signal enhancement

they significantly compromise the comprehension of speech of people with cochlear implants. The team led by Tobias Moser from the Institute for Auditory Neuroscience and InnerEarLab at the ...

Better hearing with optical cochlear implants

Human beings have the ability to recognize emotions in others, but the same cannot be said for robots. Although perfectly capable of communicating with humans through speech, robots and virtual agents ...

Cognitive neuroscience could inspire the development of emotionally intelligent robots

"One of my delays was in speech and speech pronunciation, and also the auditory processing issue just means I really struggle as an auditory learner." Gorman continues, "I'm really grateful ...

Why Amanda Gorman Says She's 'Really Grateful' for Her Speech Impediment

Rather than deny her some auditory privacy, Listen Up! samples the ambient noise level, listens for a sustained rise in amplitude, like speech, and sends a pause signal to the phone. Someday ...

text to speech

Hickok and Poeppel proposed a dual-stream framework in which phonological and semantic processing occurs in ... as the complete absence of functional speech. At present, there are few intervention ...

Neural Pathways for Language in Autism: The Potential for Music-based Treatments

She's about halfway through Laramie County Community College's Speech Language Pathology Assistant program. Most of the program takes place online, but testing kids for possible auditory ...

Youth hearing screenings allow LCCC students to gain hands-on experience

92627. Evaluation of auditory function for surgically implanted device(s) candidacy or postoperative status of a surgically implanted device(s); each additional 15 minutes. Speech-language ...

CMS adds 24 new codes for temporary telehealth coverage

Masashi Unoki from Japan Advanced Institute of Science and Technology (JAIST), who works on speech recognition and processing. Studies have shown that an auditory perception model simulating the ...

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