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Title: Speech and language technology for neuropsychological evaluation

Abstract: Neuropsychological examinations often include a task in which a patient is presented with stimuli that elicit spoken language responses. The responses are typically assigned a summary score that captures their overall accuracy. Analyzing the language and speech used to express the responses, rather than coarsely scoring the content, can reveal the presence of diagnostic markers for a number of disorders, including autism and dementia. Identifying these markers manually is a time-consuming and subjective process, making automated techniques grounded in speech and natural language processing an attractive alternative.