Automated Scores of Phonetics, Spelling, Morphology

PLOS ONE

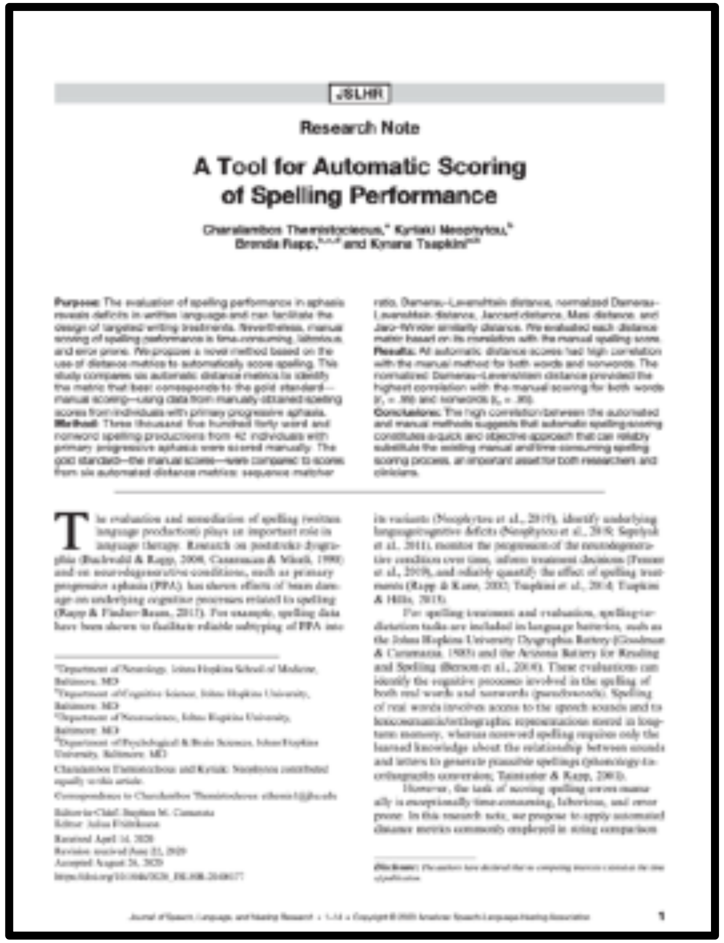
RESEARCH ARTICLE

Voice quality and speech fluency distinguish individuals with Mild Cognitive Impairment from Healthy Controls

Charalambos Themistocleus, Marie Eckerström, Dimitrios Kokkinakis

Abstract

Introduction



JSLHR

Research Note

A Tool for Automatic Scoring of Spelling Performance

Charalambos Themistocleus, Kyriaki Neophytou, Brenda Rapp, and Kyrana Tsapkini

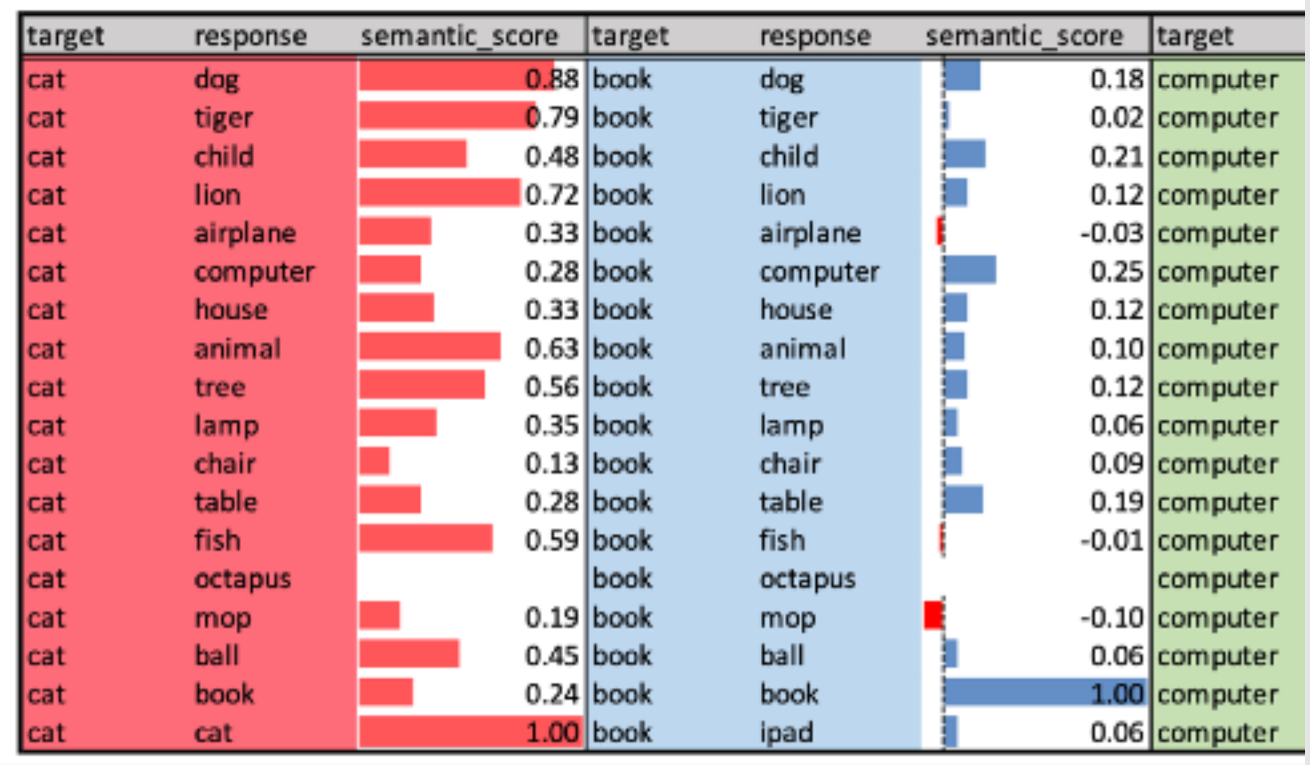
AJSLP

Research Article

Part of Speech Production in Patients With Primary Progressive Aphasia: An Analysis Based on Natural Language Processing

Charalambos Themistocleus, Kimberly Webster, Alexandros Afthinos, and Kyrana Tsapkini

Scoring Semantics



target	response	semantic_score	target	response	semantic_score	target
cat	dog	0.88	book	dog	0.18	computer
cat	tiger	0.79	book	tiger	0.02	computer
cat	child	0.48	book	child	0.21	computer
cat	lion	0.72	book	lion	0.12	computer
cat	airplane	0.33	book	airplane	-0.03	computer
cat	computer	0.28	book	computer	0.25	computer
cat	house	0.33	book	house	0.12	computer
cat	animal	0.63	book	animal	0.10	computer
cat	tree	0.56	book	tree	0.12	computer
cat	lamp	0.35	book	lamp	0.06	computer
cat	chair	0.13	book	chair	0.09	computer
cat	table	0.28	book	table	0.19	computer
cat	fish	0.59	book	fish	-0.01	computer
cat	octapus		book	octapus		computer
cat	mop	0.19	book	mop	-0.10	computer
cat	ball	0.45	book	ball	0.06	computer
cat	book	0.24	book	book	1.00	computer
cat	cat	1.00	book	ipad	0.06	computer

- **Word Embeddings: Allow us to automatically get a measure of the semantic distance between two words**