

MODEL PREDICTIONS OF VOWEL DISSIMILARITY*

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Several models of the peripheral auditory system have been studied. As test material we have used perceptual data on psychoacoustic and phonetic dissimilarity (Carlson, Granström, & Klatt, 1979; Klatt, 1979). The predictive value of the models depends on type of stimuli and perceptual task. Type of metric used in the dissimilarity calculation is of small importance for the correlation between predicted and perceived dissimilarity. We find a strong support for the view that some kind of peak picking mechanism is involved in speech perception. A model is presented that includes such a feature.

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References

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