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voice based-assistant or caller-agent conversation analysis. Speech Emotion Recognition (SER) through Machine Learning experiments in applying the weighted accelerated learning algorithm to the TIMIT database. The speech data was analyzed using a 25-ms Hamming window with a 10-ms fixed frame rate. We represented the speech using first- to 12th-order Mel frequency cepstral coefficients (MFCCs) and energy, along with their first and second temporal derivatives. Accelerated Parallelizable Neural Network Learning ... We validate these algorithms with experiments in handwriting recognition and speech recognition.

1 INTRODUCTION Weighted finite-state transducers (WFSTs) are a commonly used tool in speech and language processing (Knight & May, 2009; Mohri et al., 2002). They are most frequently used to combine predictions from multiple already trained models.

DIFFERENTIABLE WEIGHTED FINITE-S TRANSDUCERS In this method, an utterance is represented by some sequence of acoustic feature vector X , derived from the underlying sequence of words W , and the recognition system needs to find the most likely word sequence as given below [37]: $\hat{W} = \text{argmax}_W p(W | X)$

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Voice Recognition Algorithms using Mel Frequency Cepstral Coefficient (MFCC) and Dynamic Time Warping (DTW) Techniques Lindsalwa Muda, Mumtaj Begam and I. Elamvazuthi Abstract— Digital processing of speech signal and voice recognition algorithm is very important for fast and accurate automatic voice recognition technology.

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Speech Emotion Recognition (SER) through Machine Learning

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