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recognition mainly focusing on the Weighted Finite-State Transducer (WFST) approach. The decoding process for speech recognition is viewed as a search problem whose goal is to find a sequence of words that best matches an input speech signal.

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Emotion Recognition system as a collection of methodologies that process and classify speech signals to detect emotions using machine learning. Such a system can find use in application areas like interactive 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-STATE 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]: $\hat{W} = \text{argmax}_W (P(W | X))$

Convolutional Neural Networks for Raw Speech Recognition ... A robust speech-recognition system combines accuracy of identification with the ability to filter out noise and adapt to other acoustic conditions, such as the speaker's speech rate and accent. Designing a robust speech-recognition algorithm is a complex task requiring detailed knowledge of signal processing and statistical modeling.

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Sensor fusion is combining of sensory data or data derived from disparate sources such that the resulting information has less uncertainty than would be possible when these sources were used individually. The term uncertainty reduction in this case can mean more accurate, more complete, or more dependable, or refer to the result of an emerging view, such as stereoscopic vision (calculation of ...

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ciently. Weighted determinization and minimization algorithms

optimize their time and space requirements, and a weight pushing algorithm distributes the weights along the paths of a weighted transducer optimally for speech recognition. As an example, we describe a North American Business News (NAB) recognition system built using these ...

Convolutional Neural Networks for Raw Speech Recognition ...

Voice Recognition Algorithms using Mel Frequency Cepstral Coefficient (MFCC) and Dynamic Time Warping (DTW) Techniques Lindasalwa 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.

Merge-Weighted Dynamic Time Warping for Speech Recognition This book introduces the theory, algorithms, and implementation techniques for efficient decoding in speech recognition mainly focusing on the Weighted Finite-State Transducer (WFST) approach. The decoding process for speech recognition is viewed as a search problem whose goal is to find a sequence of words that best matches an input speech signal.

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Speech Emotion Recognition (SER) through Machine Learning

Speech recognition is an interdisciplinary subfield of computer science and computational linguistics that develops methodologies and technologies that enable the recognition and translation of spoken language into text by computers. It is also

known as automatic speech recognition (ASR), computer speech recognition or speech to text (STT). It incorporates knowledge and research in the computer ...

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speech recognition. 2.1. Weighted Acceptors Weighted finite automata (or weighted acceptors) are used widely in automatic speech recognition (ASR). Figure 1 gives simple, familiar examples of weighted automata as used in ASR. The automaton in Figure 1(a) is a toy finite-state language model. The legal word strings are specified by the words along

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