

Use of Multi-Layered Networks for Coding Speech with Phonetic Features

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Abstract: Preliminary results on speaker-independent speech recognition are reported. A method that combines expertise on neural networks with expertise on speech recognition is used to build the recognition systems. For transient sounds, event-driven property extractors with variable resolution in the time and frequency domains are used. For sonorant speech, a model of the human auditory system is preferred to FFT as a front-end module.