ABSTRACT

Detection of hearth sound is one of many ways to know what happen to someone. The informations that we get from heart sound detection are very important, so there's no tolerance for any misunderstanding. Heart sounds analysis by *auscultation* is the primary way conducted by doctors to assess the condition of heart. *Auscultation* with percuation, has some disadvantages. Besides the frequency and amplitude of heart sound are low, noise and subjektif opinion are really annoying. Need another way, as a second opinion for doctors, that can classified heart sounds easily, fast, and accurate. One of that another way is using computation. The recorded heart sounds, *phonocardiogram,* using *Peak Detection Algorithm*, will be calculated the *Shanon Energy*. The *Shanon Energy*, by using Neural Network, will be proccessed to create sound diagnosis on the heart sound

Keywords: *Auscultation, Phonocardiogram, Peak Detection Algorithm, Shanon Energy, Neural Network.*