ABSTRACT

Money is a tool used in a process of products and services trading, which comes in two different kinds of form, that is paper and coin. Each money has its own characteristics, starting from its color, size, and the portrait of heroes. Money's preface commonly done through media only, in that case made the societies have less information about money's characteristics. Undeniably it will give them hard times to recognize and acknowledge the authenticity of a money.

Based on that crisis, will be made made a simulation application which could recognize and detect nominal also the autheticity of a money in paper form with the help of Artificial Neuron System Backpropagation method, within a purpose to abridge publics in recognizing and detect nominals also the money's autheticity they have. Application that will be made could give information to the user related to the money's nominal and also money's authenticity through voice (audio)

The result expected will be a simulation application which could recognize nominal also authenticity of a paper form indonesia's rupiah money accurately so that the publics could easily recognize and differentiate money from the authentic and the fake one. From the results of the tests that have been carried out, it can show the accuracy of the system in detecting the nominal and authenticity of a money reaching 53% with a computing time of about 2 seconds, using parameters at Epoch 3000 and Learning Rate 0.07

Keywords: currency, back propagation, artificial neouron system,