National Physics Symposium XVI, December 12-14, 1996
and London International Youth Science Forum XXXIV, August 1996

HEART DISEASES DIAGNOSIS USING ARTIFICIAL NEURAL NETWORKS

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Abstract
This research proved that heart disease diagnosis could be done using Artificial Neural Networks for interpreting electrocardiograph signal. In early development, input parameters are extracted manually (off-line) from one of the electrocardiograph channels. The outputs from Artificial Neural Networks (Back Propagation model) are processed by fuzzy logic, yield diagnosis classification class with achieving 81.25 percent correct. Last result by author (August 1997), using Artificial Neural Networks RPPROP-Fuzzy, the result was 91 – 100 % percent correct. The author will combine these methods with others Artificial Neural Networks model, such as: Hidden Markov Neural Networks, Prediction Base Neural Networks and Fuzzy-ARTMAP.

Acknowledgment
Thank you for Prof.The Houw Liong as supervisor. Also for Dr. Ir. Soegijardjo Soegijoko, dr. Widhong, Robby Muhammad and Dr. Daniel Kurnia.

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