

## Abstract

*Expert System can be defined as a system which use knowledge and data tracking to solve problem that normally do needs human skills. In this context, Expert System is expected to help humans to substitute human knowledge properly, not to take place of humans.*

*As technology improve quickly, so there's various change on the way of people's life, from agricultural to industry. This improvement noticeable on big cities where there's some pressure and unhealthy way of life that became reasons of heart diseases. Heart diseases are the main factors of deaths. Because of that, we required a system which is able to diagnose disease immediately to avoid unnecessary delay.*

*Decision Support System (DSS) which diagnose heart disease, is operate with CERTAINTY FACTORS Method. CERTAINTY FACTORS Method is usable to value of every patient's medical problem. DSS is able to provide the output of specified heart disease that belongs to patient. In this situation, patient will has three possibilities. First possibility is patient suffer from heart disease with value near +1, then next possibility is patient isn't suffer from heart disease with value near -1 and finally netral with value 0.*

**Keywords:** *Decision Support System (DSS), Expert System, CERTAINTY FACTORS.*