

## ***Abstract***

*Expert system is a computerized device-based artificial intelligence (Artificial Intelligence) designed to adopt knowledge that owned by an expert. The main principle is to absorb all the knowledge possessed by the expert to keep it in the database. If a case can not be solved by an expert, then it can use knowledge from other experts to solve them, which further knowledge is also stored in the database, so the expert system is expected could be a combination of knowledge from several experts in their field. One form of the application of expert system is an expert system that is used to diagnose the type of injury.*

*This expert system diagnose the injury based on symptoms that entered into the system. These symptoms often contain uncertainties that can occur due to the facts or informations are incomplete. To address this uncertainty problem, this expert system using the Certainty Factor (CF) method to overcome this uncertainty. The symptoms's CF is an system's input of the patient during consultation with the system. The injury's CF is the level of the system's certainty in generating a diagnosis.*

*The expected outcome of this expert system is the ability of an expert system for diagnosing various types of injuries and provide treatment solutions based on the type of the injury. The diagnosis was accompanied by a CF value that indicates the level of truth of the diagnosis.*

*Keywords: Expert System, Certainty Factor, Injuries*