ABSTRACT

The development of technology and communication help people in complete the problem . The problem is how people can leverage existing technology to facilitate the work . For example, expert systems that help people without having to meet the experts.

An expert system is a program that serves as an expert consultant for a particular field . Users of this program feel like face to face with the real experts . The application of expert systems in automotif is one application of computer science .

generally, expert system is a system which try to adopt human knowledge into computer, therefore the computer can solves the problem like when it's usually solved by the experts, or in other words expert system is designed system and implemented by specific programming language to solves problems like the expert does. method used in expert system development to diagnose epilepsy are : data collection method and system development method. data collection method are literature study and interview. system development method are needs analysis, system design, system implementation, and result analysis. In this final project the author tries to design experts system in automotive, particulay the Toyota Avanza . Expert system design is expected to be quite helpful to facilitate the user in solving the problems of vehicles. inference method put forward chaining as method that appropriate to the problem

Hope the author will result from the implementation of this thesis is the application of expert systems have been able to detect engine damage occurs at 80 % , and the system is able to recommend the best solution is carried out in the handling of disorders identified based on the Toyota Avanza, which had engine trouble

Keywords : Expert systems , Machinery Breakdown Toyota Avanza , Forward Chaining