Expert System Application Study in the Framework Of The Navy Fleet Distribution In Eastern Indonesia Region

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Abstract

Limitations of KRI and budget provided by the state as the needs of Homeland Security resulted in marine areas need additional demands on the optimization of a system of assigning patrol boats in the sector maritime security operations and the placement of the base supporters, taking into account the ship type, specification, speed, radar range, sailing skills that get the results in the optimization of the composition of 27 patrol boats assigned to 7 sectors sea Armatim security operations by maximizing the coverage area

Expert system is a computer program that contains knowledge of one or more human experts on a specific field. The first type of program developed by artificial intelligence researchers in the 1960s and 1970s and applied commercially during the 1980s. The general form of expert system is a program that is based on a set of rules that analyze information (usually provided by the users of a system) of a class of specific problems and mathematical analysis of the problem. Depending on the design, expert systems are also able to recommend a course of action the user to apply a correction. These systems use reasoning capabilities to reach a conclusion.

Key word : coverage area, Expert system