

## Abstract Details

**Title:** A Review of Research and Development Aspects of Expert System

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**Abstract:** Expert System is nothing but knowledge based system. It is Software package that encodes the knowledge and decision rules of human expertise. This helps us to make our own decisions in problem of particular domain. In simple terms; it is a computer program that uses a direct encoding of human expertise knowledge i.e. processed knowledge to solve any complicated problem .A number of methods can be used to simulate the performance of expert is actually called as knowledge based system. In expert system domain, particular knowledge is combined with inference engine, it processes knowledge encoded in the knowledge base to respond to users request for advice or decision making. To do so, it simulates the human reasoning process by applying specific knowledge and interfaces. Expert systems also use human knowledge to solve problems that normally would require human intelligence. So It is a program that emulates the interaction a user might have with a human expert to solve a problem. This research paper introduces introduction, structure, applications or review of expert system. This paper also discusses the advantages, new tools and various research aspects in expert systems. This paper intends to outline current research trends which are found in expert system in judiciary with special reference to crimes against women in Indian penal code.

**Keywords:** Expert System, IE, WM.