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An expert system is a knowledge based system in which one can capture the reasoning process of an expert and thus provide a methodology for making available to a wide audience this valuable expertise. In constructing expert systems it becomes necessary to be able to represent and manipulate the complex knowledge possessed by the expert. In many cases this knowledge is imprecise and vague. In this talk we shall discuss some methodologies for representing different kinds of uncertain knowledge. We shall also discuss some appropriate means for reasoning with these vague pieces of knowledge.

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