Abstract

Intelligent decision support system is the one that behaves like a human consultant; has the ability to learn, can support decision makers by gathering evidence, analyze it, identify and diagnose problems, propose possible courses of action and evaluate the proposed actions. The aim of the Artificially Intelligent Techniques embedded in a decision support system enables these tasks to be performed by a computer that can simulate the human capabilities as closely as possible. In our paper we are representing Intelligent Decision Support System (IDSS) that demonstrates the above mentioned tasks for implementing a flexible learning system in higher education. To give better understanding about our IDSS we model the structure and activities of IDSS by using UML which is de facto standard language for modeling. Our objective is to provide a learning structure where students can attain self-directed education. We are considering an environment which provides such flexibility in curriculum which gives student the
freedom to choose amongst wide variety of courses and create and academic curriculum of their own choice. To achieve this objective we have designed an IDSS based on fuzzy logic which behaves like a consultant for a student and guide them for selecting their courses for coming term in such a manner that their credit requirements are fulfilled.

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Index Terms

Computer Science Emerging Trends in Technology

Keywords

Decision Support System Flexible Learning Structure Higher Education Fuzzy Rule Based Systems(frbs)