Fuzzy Logic based Assessment Model Proposal for Online Problem-based Learning

Abstract

In this research, problem based learning over web is suggested. This model includes fuzzy logic and MYCIN trust factor. Through the model, MYCIN trust factor and the number of attempts to solve the problem are used in order to identify students’ learning levels. MYCIN confidence factor value and number of attempts to solve the problem are to be entered to fuzzy logic decision system. The output of the fuzzy logic decision system becomes the new level of learning. This level of learning is calculated through fuzzy logic in linguistic term as well as numeric expression. In every try, a hint given to student. Each used hint lowers the score of the student. Thus the students who solved the problem in one try will score more than the ones who solved the problem in more than one try.

References

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Index Terms

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Keywords

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