Abstract

Effective monitoring of student’s performance is an important task for successful higher learning. Performance appraisal enables institutions to foresee student progression as well as inform the students well in time, the areas they need to improve. Traditional evaluation methods do not fully justify these objectives whereas Fuzzy logic based appraisal approaches are like human inference and give better evaluation results. In this paper we describe the advantages of the fuzzy logic approach for performance evaluation over the traditional method as fuzzy expert system can be built not only with the given information in the dataset but can also include the vital knowledge of experts at various levels as and when required. Furthermore, various existing approaches using fuzzy logic approach in this field have been investigated and compared for their merits and demerits.

References

1. N. A. Kumari, D. N. Rao, “Indexing Student Performance with Fuzzy Logics Evaluation in
A Brief Survey on Fuzzy Logic Systems for Performance Appraisal


Index Terms

Computer Science  Fuzzy Systems
Keywords

Effective monitoring, Performance appraisal, Fuzzy logic, Human inference, Fuzzy expert system