Abstract

The design of recommender systems for various domains has been proposed based on the nature inspired algorithms. In this paper attempt is made to propose a Nature Inspired Algorithms based architecture for recommender system for web based learning environments. The paper also compares between the traditional recommender systems and the nature inspired algorithm recommender systems. Collaborative filtering is proposed for personalized recommendations; user and item attributes are used as filtration parameter. Attributes and rating of the user's similarity is used for collaborative filtering process. Hybrid collaborative filtering is proposed for user and item attribute that can alleviate the sparsity issue in the recommender systems. Traditional systems are studied in detail and all the possible limitations of the traditional systems are bought under attention.

References

Nature Inspired Recommender Algorithms for Collaborative Web based Learning Environments

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Index Terms

Computer Science
Web Services

Keywords

Recommender Systems  web based educational environments  architecture  nature inspired algorithms  optimization  and software testing.