# ABSTRACT

Recommender systems are efficient tools for filtering online information, which is widespread owing to the changing habits of computer users, personalization trends, and emerging access to the internet. Even though the recent recommender systems are eminent in giving precise recommendations, they suffer from various limitations and challenges like scalability, cold-start etc. Due to the existence of various techniques, the selection of techniques becomes a complex work while building application-focused recommender systems. In addition, each technique comes with its own set of features, advantages and disadvantages which raises even more questions, which should be addressed.

In the spread of information, how to quickly find one's favorite movie in a large number of movies become a very important issue. Personalized recommendation system can play an important role especially when the user has no clear target movie. we design and implement a movie recommendation system prototype combined with the actual needs of movie recommendation through researching of KNN algorithm and collaborative filtering algorithm. Finally, the test results showed that the system has a good recommendation effect.

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