Recommendation System Using Information Needs Radar Model

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Abstract—Recommendation systems attempt to recommend items that attract the attention of users, and information needs are the most important factors in recommendation systems, due to the means by which they influence information seeking behavior. To address the importance of information needs, this study proposes information needs radar model to quantify the degree of desirability expressed for items. Based on the information needs radar model, we developed a recommendation system to construct a net that filters items according to their degree of desirability and recommend items that meet the needs of users. Experimental results indicated that proposed recommendation system has good performance with regard to objective indicators and consistent performance regardless of data size, and could improve the applicability of the model.

Index Terms—Recommendation system, information needs, information needs radar model