ABSTRACT

Recently, Internet has significantly influenced the tourism sector providing a great variety of services and products online. However, the number of choices has increased so dramatically that it is very difficult for the consumers to find what they are looking for. Since tourists can plan their traveling schedules by themselves, the free and independent travel is increasing gradually. How to plan the best traveling schedule under considering various kinds of influencing factors (as tourist attractions) simultaneously is a challenge. In order to find out solutions, recommendation systems for tourism have attracted a lot of research energy and interest. However, the personalized concept is not completely in most of travel recommendation systems. They only recommended most popular travel route or project, and cannot plan the traveling schedule or transform the traveling schedule for themselves. Moreover, many recommendation systems are not considering the charging of tourists' requests and the results of recommendation are not satisfied for tourists. Therefore, the travel recommendation system plays an important role in both planning and recommending a personalized travel route. In this study, we proposed a personal travel project planning system with concept of adjustment. In the system, some methods and concepts are adopted including ontology, time framework, adjustable interface and schedule reasoning method. The dynamic drag techniques are used to reinforce the adjustable interface. An ontology is adopted to manage and represent the various travel information and tourists' requests. We also develop a schedule reasoning method for traveling schedules planning. The system consists of three modules. First, Interface Module provide both the user's travel requirement and build a time framework. The Travel Requirement Match Module is responsible for finding the concepts matched with the tourist's requirements. Then Schedule Planning Module planning a travel project based on user's travel requirement. Through adjustable interface and time framework, users can adjust their travel project. In order to provide a better accuracy rate for next traveling schedule to new users, the satisfied travel projects are feedback to the system. In this paper, we invite 32 users to use our travel project planning system and 20 users even use other travel recommendation systems. We collect the opinions of 52 users through questionnaires. After statistic analysis, the findings that travel project planning and adjustable interface functions are necessary. The user is satisfied to our provide system moreover is willing to use our system.

Keywords : personality, traveling schedule planning, adjustable, recommendation, ontology