

Abstract

Tourism is among those industries which are continuously expanding at fast rates. Such a huge sector will largely benefit if the amenities provided by the industry are accessible to all. Accessible tourism is an important stride towards building an egalitarian tourism industry. Complex interplays among various types of industries like transportation, hospitality, etc. can be witnessed in tourism. Thus, semantic domain knowledge organization systems can provide the means of structuring the tourism domain. Over the years, different domain models have been constructed for supporting different purposes related to tourism. Existing literature on the domain reveals that primarily there are two principal actors, namely, tourists and destination managers among the various stakeholders involved in tourism. The tourists require information about prospective destinations and related essentials for undertaking trips. On the other hand, destination managers are concerned about the opinions and requirements of the tourists. Considering these premises, two ontology based domain models have been demonstrated in this study. One is for facilitating information retrieval pertaining to accessible leisure tourism. The other demonstrates semantic organization of tourist reviews with the aim of catering to destination managers. These two models have provisions for mapping among themselves so that they can be used together in a tourism information retrieval system. A prototype model of a system for combined deployment of the domain models also has been discussed. It is envisioned that the demonstrated domain models will affect research on knowledge organization in the tourism domain.