

SAP: A Smart Amusement Park System for Tourist Services

Authors : Pei-Chun Lee, Sheng-Shih Wang, Pei-Hsuan Ku

Abstract : Many existing amusement parks have been operated with assistance of a variety of information and communications technologies to design friendly and efficient service systems for tourists. However, these systems leave various levels of decisions to tourists to make by themselves. This incurs pressure on tourists and thereby bringing negative experience in their tour. This paper proposes a smart amusement park system to offer each tourist the GPS-based customized plan without tourists making decisions by themselves. The proposed system consists of the mobile app subsystem, the central subsystem, and the detecting/counting subsystem. The mobile app subsystem interacts with the central subsystem. The central subsystem performs the necessary computing and database management of the proposed system. The detecting/counting subsystem aims to detect and compute the number of visitors to an attraction. Experimental results show that the proposed system can not only work well, but also provide an innovative business operating model for owners of amusement parks.

Keywords : amusement park, location-based service, LBS, mobile app, tourist service

Conference Title : ICITE 2015 : International Conference on Information Technology and Engineering

Conference Location : Bali, Indonesia

Conference Dates : October 11-12, 2015