

Modeling Jordan University of Science and Technology Parking Using Arena Program

Authors : T. Qasim, M. Alqawasmi, M. Hawash, M. Betar, W. Qasim

Abstract : Over the last decade, the over population that has happened in urban areas has been reflecting on the services that various local institutions provide to car users in the form of car parks, which is becoming a daily necessity in our lives. This study focuses on car parks at Jordan University of Science and Technology, in Irbid, Jordan, to understand the university parking needs. Data regarding arrival and departure times of cars and the parking utilization were collected, to find various options that the university can implement to solve and develop an efficient car parking system. Arena software was used to simulate a parking model. This model allows measuring the different solutions that solve the parking problem at Jordan University of Science and Technology.

Keywords : car park, simulation, modeling, service time

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