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Abstract:

Inefficiency airport ground handing operations is one of the main reasons for flight delays, as it comprises a series of processes and collaborations between various airport's services. Using multi-agent planning (MAP) method, this paper proposes a framework as a management system to improve the airport ground handling management (GHM). With the identification of the services and resources related to GHM, the forward MAP approach is applied to coordinates the tasks and planning in order to reduce both the delays and the operating cost. In this case, the key contribution includes MAP model for airport ground handling operations under a unified framework compatible with the airport collaborative decision making (ACDM) strategy.

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Contents

I. Introduction

Air traffic flow management (ATFM) is a challenging area for the application of artificial intelligence, operation research and other techniques due to the continuous increase of air traffic flows and the amount of the involved data [1]–[3]. Today, delays and congestion have beingmin accommittens Readitinges ulting in high financial and social cost for airlines and passengers [4], [5]. For example, in 2014, approximately 23% of the flights in the United States were delayed by more than 15 minutes, while another 3% were canceled [6].

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