

عنوان مقاله:

An optimization model based decision support tools for inventory-routing rescheduling problem

محل انتشار:

فصلنامه بین المللی مهندسی صنایع و تحقیقات تولید، دوره 31، شماره 2 (سال: 1399)

تعداد صفحات اصل مقاله: 13

نویسندگان:

Parviz Fattahi - Alzahra University

Mehdi Tanhatalab - Bu-Ali Sina University

Joerin Motavallian - RMIT University

Mehdi Karimi - Islamic Azad University, Science and Research Branch

خلاصه مقاله:

The present work addresses inventory-routing rescheduling problem (IRRP) that is needed when some minor changes happen in the time of execution of pre-planned scheduling of an inventory-routing problem (IRP). Due to the complexity of the process of departing from one pre-planned scheduling IRP to a rescheduling IRP, here a decision-support tool is devised to help the decision-maker. This complexity comes from the issue that changes in an agreed schedule including the used capacity of the vehicle, total distance and other factors that need a re-agreements negotiation which directly relates to the agreed costs especially when a carrier contractor is responsible for the distribution of goods between customers. From one side he wants to stick to the pre-planned scheduling and from the other side, changes in predicted data of problem at the time of execution need a new optimized solution. The proposed approach applies mathematical modeling for optimizing the rescheduled problem and offers a sensitivity analysis to study the influence of the different adjustment of variables (carried load, distance, ...).

کلمات کلیدی:

inventory-routing rescheduling problem, decision support system, rescheduling

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1159209>

