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Abstract
At present, the Pizza carrier is managed by the way of chain store, and the original supplies of each chain store come from headquarters. For this reason, the research will discuss about the vehicle routing problem that its distribution center is worthy of sending off various kinds of supplies to each chain store. In the case company, because the dough of making pizza has time-limit, and other kind of cost factors, they design the delivery period as two times for one week. By this way, we know this problem is similar to the periodic vehicle routing problem (PVRP) .
Generally speaking, if there has no especially limited, the answer of minimization vehicle routing problem will set up the stores that they are closer as the same delivery period. But because of some reason, the case company can’t just design one period. He must to design two kinds of different period for all stores.
Because of being above-mentioned, this problem is not traditional PVRP. It should belong to the change problem of PVRP. At present, we have not found relevant documents to this yet. The research will structure its mathematics way to this problem and will design some example to verify it. Because of the case company has more than 100 chain stores, we wish this research can help him to plan the vehicle routing more effective. And the result of study its can in accordance with following for follow-up study also.
Advisory Committee Chih-Hung Lin - advisor

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