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โดย... จิรวัดน์ พรหมพร

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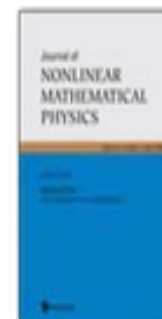
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TARJA SÖDERMAN and TUOMAS KALLIO

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Title: VEHICLE ROUTE OPTIMIZATION FOR RFID INTEGRATED WASTE COLLECTION SYSTEM

Author(s): [ALP USTUNDAG](#)

Corresponding author.

Department of Industrial Engineering, Istanbul Technical University, Macka 34367, Istanbul, Turkey

[EMRE CEVIKCAN](#)

Department of Industrial Engineering, Istanbul Technical University, Macka 34367, Istanbul, Turkey

Abstract: Radio Frequency IDentification (RFID) technology has been in use for several decades to track and identify goods, assets, and even living things. Recently, however, RFID has generated widespread corporate interest as a means to waste management performance. In this paper, a vehicle routing model for waste collection is developed. The model not only uses precise data with respect to both quantity and location via RFID technology, but also includes single vehicle with a pre-determined capacity, multiple tours, and locations with deterministic waste quantities. Then a numerical example is solved via Dash Optimization XPress Solver to find an optimal route considering the locations of waste bins and the waste quantities. The impact of changing waste quantity on the operation cost is investigated considering the distance of the waste bins using variance analysis (ANOVA). With this method, municipality authorities can better manage itineraries and manpower, and have a monitoring system for the volume of the waste produced in the region of their responsibility.

Keywords: RFID; waste management; vehicle routing

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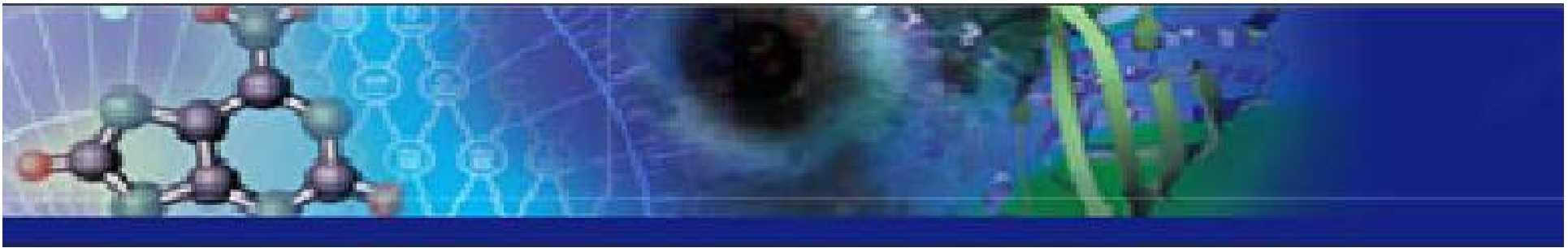
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VEHICLE ROUTE OPTIMIZATION FOR RFID INTEGRATED WASTE COLLECTION SYSTEM

ALP USTUNDAG* and EMRE CEVIKCAN

*Department of Industrial Engineering
Istanbul Technical University, Macka 34367, Istanbul, Turkey
ustundaga@itu.edu.tr

Radio Frequency Identification (RFID) technology has been in use for several decades to track and identify goods, assets, and even living things. Recently, however, RFID has generated widespread corporate interest as a means to waste management performance. In this paper, a vehicle routing model for waste collection is developed. The model not only uses precise data with respect to both quantity and location via RFID technology, but also includes single vehicle with a pre-determined capacity, multiple tours, and loca-



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