

# Abstract

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### **GIS and Logistics Tool for Milk Transportation in Dairy Industries**

**Track:** Transportation

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Milk collection from dairy farms challenges quality delivery to plants, fleet cost optimization and adaptive planning for a dynamic production scheme. Current advances in the integration of GIS, optimization techniques, and the Internet have contributed to the development of software tools for strategic management in logistics for milk transportation. This paper presents a tool and a case study. For these, MapObjects and ArcInfo software and GPS technology were used to collect and process data. The integrated software application includes automated route planning adjusting to strong logistic restrictions. Potential applications include other transportation scenarios with complex restrictions.

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