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 Nama/Jumlah Penulis : Sutrisno, **Widowati**, R. Heru Tjahjana/ 3 orang  
 Status Pengusul : penulis ke- 2  
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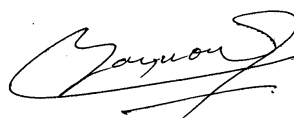
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Reviewer 2



Prof. Dr. St. Budi Waluya, M.Si  
 NIP. 196809071993031002  
 Unit kerja : Matematika FMIPA UNNES

Semarang, April 2020  
 Reviewer 1



Prof. Dr. Basuki Widodo, M.Sc  
 NIP. 19650506 1989031002  
 Unit kerja : Matematika FSAD ITS

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Penulisan artikel cukup bagus dan mengikuti standard penulisan artikel di jurnal, yaitu terdapat abstract, Introduction, Methodology (prosedur pemecahan masalah), Result and Discussion (IMRaD), Conclusion, dan didukung dengan referensi yang sesuai.

**2. Ruang lingkup dan kedalaman pembahasan:**

Lingkup bahasan dari artikel ini adalah bidang matematika terapan, khususnya pada bidang optimasi. Dalam artikel ini dibahas dengan baik tentang model optimisasi matematis dengan parameter fuzzy untuk menyelesaikan masalah pemilihan pemasok dan masalah pengendalian persediaan secara terintegrasi di lingkungan fuzzy, di mana variabel fuzzy digunakan untuk mendekati parameter yang tidak pasti. Cukup dalam bahasannya, menggunakan pemrograman kuadrat integer berbasis nilai fuzzy dimana variabel fuzzy didekati dengan nilai harapan fuzzy. Relevansi hasil terkait dengan strategi optimal dan tingkat persediaan aktual dengan total biaya minimal.

**3. Kecukupan dan kemutakhiran data/informasi dan metodologi :**

Informasi yang disajikan cukup baru dan hasil yang diperoleh memuat substansi orisinal dengan aspek aplikasi yang penting Sumber gagasan penulis untuk artikel ini cukup banyak, komprehensif dan update, yang lebih sepuluh tahun terakhir hanya 2 paper dari 13 sumber yang dirujuk. Prosedur pemecahan masalahnya cukup baik dan tertulis terstruktur.

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Artikel memenuhi standard penulisan dan isi untuk journal internasional. Makalah diterbitkan di journal internasional yang terindeks di Scopus (Q3).

Surabaya, 16 April 2020

Reviewer 1



Prof. Dr. Basuki Widodo, M.Sc

NIP. 19650506 1989031002

Unit kerja : Matematika FSAD ITS

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**1. Kesesuaian dan kelengkapan unsur isi jurnal:**

Kesesuaian dan kelengkapan unsur isi jurnal sudah baik terdiri atas 4 bagian: Introduction, Mathematical Model, Numerical Experiment, dan Conclusions. Didukung 13 referensi yang sebaian besar dai jurnal dan up to date.

**2. Ruang lingkup dan kedalaman pembahasan:**

Ruang lingkup dan kedalaman pembahasan cukup baik. Lingkup matematika Terapan. Pembahasan berkaitan dengan mathematical optimization with Fuzzy parameters. Interpretasi hasil kurang cukup ditonjolkan dalam pembahasan. Lingkup artikel Matematika Terapan sesuai dengan bidang ilmu pengusul.

**3. Kecukupan dan kemutakhiran data/informasi dan metodologi :**

Kecukupan dan kemutakhiran data/informasi dan metodologi cukup baik. Terdapat 13 referensi dengan 1 jurnal yang terlalu tua (1978).

4. **Kelengkapan unsur dan kualitas terbitan:**

Artikel memenuhi standard penulisan dan isi untuk journal internasional. Makalah diterbitkan dalam International Journal of Supply Chain Management (IJSCM) Vol 7, No 3 (2018). Penerbit ExcelingTech Publishers, terindek Scimagojr dan Scopus SJR (2018) 0.199 Q3. Hasil Turnitin similarity index 18%. Kualitas unsur dan terbitan baik.

Semarang,  
Reviewer 2



Prof. Dr. St. Budi Waluya, M.Si  
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International Journal of Supply Chain Management  
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## Fuzzy expected value based model to solve integrated supplier selection and inventory control problem in fuzzy environment (Article)

Sutrisno ✉️, **Widowati** ✉️, Heru Tjahjana, R. ✉️

Department of Mathematics, Diponegoro University Semarang, Indonesia

### Abstract

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In a production and inventory planning management, the future parameters like future demand, future product buying cost, future transport cost and future holding cost are obviously unknown/uncertain. To determine the optimal strategy in uncertain condition, a method that can handle the uncertainty of parameters is needed. If the historical data of the uncertain parameters are known then they can be approached by using probability distribution, but if there is no historical data then it cannot be used. In this paper, we propose a new mathematical optimization model with fuzzy parameters to solve an integrated supplier selection problem and inventory control problem in fuzzy environment where fuzzy variables are used to approach the uncertain parameters. To solve the corresponding optimization problem, we use fuzzy expected value based integer quadratic programming where the fuzzy variables are approximated by fuzzy expected value. From the numerical experiment results, the optimal strategy i.e. the optimal supplier and the optimal stored product volume were obtained and the actual inventory level followed the desired level with minimal total expected cost. © ExcelingTech Pub, UK.

### SciVal Topic Prominence ⓘ

Topic: Data envelopment analysis | Efficiency | Cross-efficiency evaluation

Prominence percentile: 99.102 ⓘ

### Author keywords

Fuzzy environment Fuzzy expected value Fuzzy programming Inventory control Supplier selection

ISSN: 20513771

Source Type: Journal

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Sutrisno , Widowati , Heru Tjahjana, R.  
(2017) *AIP Conference Proceedings*

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(2016) *Journal of Physics: Conference Series*



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## Vol 7, No 3 (2018)

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# Logistics Outsourcing: A Review of Basic Concepts

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**Abstract**— The proliferation of new information technologies, intense business competition, transactions acceleration, rapid product obsolescence, shorter product life cycle and changing customer needs and requirements, have pushed firms to reorganize, to revise their businesses strategies and to refocus on their core businesses. In response to these challenges, many firms start to outsource more of their business functions including the logistics ones.

Logistics outsourcing has become a common practice by many firms, whether they are local or multinational, small or large. And it has attracted attention of both researchers and practitioners.

The aim of this paper is to provide a general overview of logistics outsourcing through presenting the state of the art research in this field, exhibiting the different related concepts and based on that, suggesting future research directions.

**Keywords**— *Logistics outsourcing, Logistics Services, Logistics Services Provider.*

## 1. Introduction

In today's highly competitive, extremely variable and really dynamic environment, many firms are seeking solutions in all areas of their activities, also including, or perhaps above all, logistics. One of the business's keys performance, currently, is the major role of the supply chain management in guaranteeing fluid flows of materials and information throughout a firm's supply chain. And as supply chain management becomes more sophisticated and the difference between what firms want to achieve and what they can do in-house continues to grow, firms begin to realize that doing the right thing becomes more interesting than doing everything. Accordingly, they are becoming better focused and more specialized by outsourcing activities that are far from their core businesses.

In recent years there has been a surge of publications in the field of logistics outsourcing which becomes a common phenomenon nowadays. In other words, a firm is to delegate all or part of its logistics activities to a logistics services provider. It is considered as an important factor for competitiveness and flexibility to answer the requirements of new economic challenges. And it is argued that through outsourcing their logistics activities, firms can gain about 9% savings and 15% enhancement in capacity and quality [1].

Despite the growing body of the literature on this topic, efforts to synthesize the state of art of research on logistics outsourcing have been limited, and there is still a lot to be learned [2], because it is growing in importance worldwide [3].

This paper focuses on the main principles of logistics outsourcing, examines, in detail, the logistics services subject of outsourcing, provides a detailed categorization of logistics services providers and finally points out opportunities for future research.

## 2. Methodology

This paper review is focused on refereed journal papers published within the 1996-2017 period in international journals in logistics, supply chain, supply chain management, operations management, transport, distribution and marketing fields, collected principally from Emerald, ScienceDirect, Inderscience and Jstor. Eventually 41 articles were selected and grouped according to the relevance of the research view.

# Feasibility between Two Models for the Control of Fleet Idleness: RFID Antennas vs Electronic Fences (Telemetry)

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**Abstract** - Optimizing the use of resources within organizations without decreasing the level of quality of service is a constant and recurring challenge in the daily life of professionals. In Group X, an electricity distribution company located in the Brazilian Northeast, fleet management is one of the priorities. This study compares the use of two tools to measure fleet idleness, RFID Antennas and electronic fences created from the Telemetry system. The process and cost of installation, scope, maintenance costs and results obtained were compared between the two tools. This comparison was used to analyze the feasibility of expanding the tools in Group X for newly acquired companies. Based on the results, it was concluded that the Telemetry system was economically and operationally the best option for Group X.

**Keywords:** Fleet Monitoring, Vehicle Idling, RFID, Telemetry, Logistics, Transportation, Fleet.

## 1. Introduction

"Radio Frequency Identification" (RFID) means a term that describes any identification system in which an electronic device that uses variations of radio frequency or magnetic field to communicate is attached to an item. The two components of the RFID system are the label, which is the identification device attached to the item that will be tracked, and the reader, which is a device that can recognize the presence of RFID tags and read the information stored in them [1]. The beginning of RFID was during World War II, when the British used it to identify if the aircraft belonged to the "friend or enemy"

[2]. After it, RFID applications, for example, are used in cattle tracking, forgery prevention, supply chain management, security to differentiate copies of pirated videos, access control to buildings, and so many other applications [3].

Telemetry is a technological monitoring system, used to command, measure or track something at a distance, through wireless communication (radio or satellite signals). This technology is used at geographically remote or constantly moving points (such as automobiles), collecting its information and transmitting it to a control center, which has the function of monitoring and decoding this data. Currently, telemetry is applied in many branches, such as agriculture, meteorology, water and sewage treatment, energy monitoring and others. The advanced use of vehicle telemetry is a trend, a tool that aggregates much more information and allows better control of the fleet, with great opportunities to increase productivity, among other benefits. This tracking and monitoring system allows the creation of Electronic Fences that act as a traffic limiter on the map, allowing the establishment of an area that should not be exceeded by drivers.

These technological monitoring systems, RFID antennas and electronic fences have been used, for example, in the measurement of idleness of vehicles in any company.

This article brings to the knowledge of the academic society the experiments and tests developed by the Planning and Monitoring team (P&M) of an Electric Energy distributor, located in the Northeast of Brazil, which will be referred to in this work as Group X. This team is responsible for the logistic budget of the entire