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The Prediction of Logistic Needs of Emergency **Response for Victims of Merapi Volcano** Eruption in Regency Sleman, Yogyakarta

Handayani N.U. 🖾 ; Rinawati D.I.; Sari D.P.; Rifa'l P.M.

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This research aims to predict the logistic needs for natural disaster victims of Merapi Volcano in Regency Sleman. Merapi volcano is chosen as the object of the research since it has been the most active volcano in Indonesia. The effort to maintain the logistic in times of emergency response by the authority has still been in responsive mode. It causes its ineffectiveness in maintaining the logistic for disaster. Frequently, there have been oversupply for a certain item, however, other items could not meet the demand. This research view in detail the needs of the victim based on the

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Foreword from Conference Chair



Welcome to Joint Conference 6th Annual Conference of Industrial and System Engineering 2019 (6th ACISE 2019) and 1st International Conference on Risk Management as an Interdisciplinary Approach 2019 (1st ICRMIA 2019), held 23-24 April 2019 at the Gumaya Hotel, Semarang, Central Java - Indonesia. The conference organized by the INDUSTRIAL ENGINEERING DEPARTMENT, is DIPONEGORO UNIVERSITY as a host, Sebelas Maret University, Centre for Risk Management Studies (CRMS), and National Agency for Standardization (BSN) as a co-host.

The conference is intended on providing a discussion, for exchanging of knowledge, researches and of recent solutions for many researchers and experts in the field of risk, industry 4.0, and industrial and system engineering. The theme of the conference is "Risk Engineering in Industry 4.0: Protecting and Creating Value in Industrial and System Engineering". This event will strengthen the collaboration and provide a forum for industry professionals, academicians, researchers, and scientists to discuss and exchange their research results, innovative ideas, and experiences in all aspects of intelligent and technologies, as well as to identify emerging research topics and define the future directions to achieve sustainable development in the era of industry 4.0.

The papers accepted and presented in this conference will be forwarded for consideration to be published in the IOP conference series: Materials Science and Engineering (proceedings indexed by SCOPUS). The selected papers will be published on International Journal of Applied Science and Engineering - IJASE and (indexed by SCOPUS), Operations and Supply Chain Management: An International Journal -OSCM, Journal TEKNIK UNDIP (accredited national journal), and Jurnal Ilmiah Teknik Industri (accredited national journal).

Thanks to the Ministry of Research, Technology, and Higher Education, Prof. H. Mohammad Nasir Ph.D., Ak for coming and supporting this conference. Thanks are due to Speakers, Sha'ri M. Yusof (Professor, Razak Faculty of Technology and Informatics (FTIR), Universiti Teknologi. Malaysia), Hui-Ming Wee (Distinguished Professor, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taiwan), Chaung-Chun Chiou (Professor, Department of Industrial Engineering and Enterprise Information, Tunghai University, Taiwan), Benny Tjahjono (Professor, Sustainable Production and Consumption Centre, Coventry University, United Kingdom), Dr. I-Jan Wang (Assoc. Professor, Department of Industrial Engineering and Enterprise Information, Tunghai University, Taiwan), Prof. Dr. Ir. Bambang Prasetyo, MSc. (Head of The National Standardization Agency of Indonesia, Indonesia), and Dr.Antonius Alijoyo, SE., MM., ERMCP., CERG.(Head of Indonesia Risk Management Professional Association (IRMAPA))

This year, the 6th ACISE 2019 and 1st ICRMIA received 180 papers submissions from six countries such as Indonesia, Malaysia, Taiwan, Inggris, Swedia, and Jepang. But only 147 papers were accepted for presentations for oral sessions (the acceptance ratio is 80%). We are very grateful for the extensive efforts of many individuals who worked diligently to ensure a successful and high-quality conference.

We would like to say thank you to RistekDikti, DIPONEGORO University, CRMS, and BSN for supporting this event. Once again we would like to say Welcome to Semarang for all. Congratulations for your papers have been accepted. We invite all participants to actively participate in the conference activities and the city tours and to enjoy the opportunity to learn from one another. Thank you for choosing 6th ACISE and 1st ICRMIA as your conference references. We hope to have your pleasant supports and participation in the next year 2020, the 7th ACISE.

Thank you Chair of the conference Dr. Aries Susanty, ST. MT Faculty of Engineering, Industrial Engineering DIPONEGORO University, Semarang, Central Java - Indonesia



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Abstract. This research aims to predict the logistic needs for natural disaster victims of Merapi Volcano in Regency Sleman. Merapi volcano is chosen as the object of the research since it has been the most active volcano in Indonesia. The effort to maintain the logistic in times of emergency response by the authority has still been in responsive mode. It causes its ineffectiveness in maintaining the logistic for disaster. Frequently, there have been oversupply for a certain item, however, other items could not meet the demand. This research view in detail the needs of the victim based on the category of age and gender where there are 6 categories namely age of 0-2 years old, male aged 3-5 years old, female aged 3-5 years old, male aged 6-59 years old, female aged 6-59 years old and elderly aged >60 years old. The prediction is done in each refugee camp established in Regency Sleman. The result of the prediction logistic support for victims of Merapi eruption could become a facility of information for the government as well as for the community within the affected area so that the handling of logistic support for disaster at the time of emergency response could be maintained effectively and efficiently.

1. Introduction

Yogyakarta is one of the provinces in Indonesia located in the area of prone to volcano eruptions. Merapi volcano is located in Regency Sleman in Yogyakarta which is one the most active volcanoes in Indonesia [1]. The frequency of Merapi Volcano eruption is 6-7 years within the las 100 years. The level of danger in the affected area is very high, since the population in the slope of Merapi Volcano. It is proven by the number of victims affected by the Merapi eruption in 2010 was 353 people. According the the chief of BPBD of Regency Sleman, Merapi eruption in 2010 caused an open lava dome headed to the East, so that the future case of Merapi's lava eruption was predicted to head Gendol River in Sleman.

The Preparedness is an important step that must be met to reduce the risk of disaster. Action of the preparedness may include the logistic availability in the storage for both primary and secondary needs, either in time of emergency response or in time of recovery. The existence of logistic storage enables the supply of support is based on what is needed and is distributed accurately and quickly. The location of logistic storage must be optimal in order to evaluate the decision on various aspects, such as the close distance to the disaster area, the value of area's vulnerability, and the change of vulnerability value from

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Revisiting Supply Chain System with Deteriorating Items and Transportation Cost

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Abstract. Supply chain system with deteriorating items and transportation cost with environmental consideration has recently become a popular research stream. This study revisits a supply chain system with deteriorating items and transportation cost. Processing the defective items, which increases cost, affects supply chain decisions. We present an integrated inventory model involving a three-stage supply chain and defective items with no shortage. We then derive the minimal total cost considering supply chain integration and deteriorating items. Numerical examples are provided to illustrate how these models can be applied in practice. Sensitivity analysis is performed to gain more insight on changing parameters in the numerical studies.

1. Introduction

Due to increasing globalization, firms face a highly rapidly changing industrial conditions. The objective of our study is to determine the optimal cycle time and the replenishment policy for the integrated system which minimizes the average total cost per unit time. The motivation for looking at such models comes from the competitive environment and greater information transparency between suppliers, manufacturers, and retailers in the supply chain. Some researches on three-stage supply chain model were done by the following researchers. Ben-Daya et al. [1] explored the joint economic lot sizing problem in the context of a three-stage supply chain. Sana et al. [2] investigated a three-stage supply chain consisting of multiple suppliers, multiple manufacturers, and multiple retailers. Neither of them considered deteriorating items and logistic cost. Chung et al. [3] developed an integrated two-stage production–inventory deteriorating product model, in which stock-dependent, imperfect items and just-in-time delivery were considered.

In this study, we developed a generalized mathematical model considering three-stage supply chain for deteriorating items considering transportation cost. Our objective is to minimize the total system cost per unit time. We illustrate the process with a numerical example and analyzed the sensitivity of crucial parameters to provide managerial insights.

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Modelling and Analysis of Manufacturing Process Layout

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Abstract. Manufacturing layout is an arrangement of more than two elements in a manufacturing plant. Process layout shows the layout of elements which running certain process cycle at a certain sequence. Through simulation software, process layout can be simulated and predicted the outcome of the certain model layout before it is implemented. An activity that is conducted in this study such as time study, line balancing and production line re-layout. Furthermore, lean manufacturing tools such as takt time calculation and Yamazumi chart is utilized in order to improve the mechanism in this study. Commercial software is used in order to simulate a model of manufacturing layout and increase the efficiency in the model. These simulated results were compared with the current process layout. The proposed new production plant layout showed promise in its application. However, approaches and layout models need to be evaluated in application to ensure usability so that it is effective and efficient in its performance. The layout of the proposal has increased overall line efficiency which shows an increase of 19%.

1. Introduction

Model is a corporeal, scientific, or rational representation of a system, phenomenon, or process while replication is a model that is applied from time to time. Simulation makes the model and illustrates how certain objects or phenomena will occur. This is advantageous for testing, study and exercise where real-world systems or ideas can be expressed in the form of a model. Modelling and simulation provide virtual repetition of goods and procedures and represent the product or process in an operationally existing and legal environment [1]. Practise of models and use of recreations can reduce costs and risks of life cycle activities.

Modelling simulations are often used in various engineering fields. In various conditions that occur and various systems, various models are cast-off applied. In grouping simulations, there are some differences significance between the types of models that are being and will be simulated, and between the types of database structures used to run the software doing the simulation [2]. System simulation is the application of models and systems. Models can be re-designed and tested with; usually, not optimal, high costs or not having aesthetic value to do in the system that will be run. The application of the model can be identified, and therefore, the specification that are interrelated with the actual behavior of the system or subsystem can be concluded by an analysis. In its broadest understanding, simulation is a software to analyze the optimization of a system, which is currently and proposed for improvement, over a period of time. Simulations are carried out before the existing system is implemented or when a innovative system is built in order to improve the old system, this is done to

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Traffic Accident Severity Prediction Using Naive Bayes Algorithm- A Case Study of Semarang Toll Road

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Abstract. A traffic accident was one of the leading cause of death in Indonesia. Toll Road is one of the places where traffic accidents occur. In 2007-2017 there were 501 accidents at Semarang Toll Road. Accident in Semarang Toll Road has a variety of severity. The most severe case is death. A traffic accident can lead to death. One of the ways to decrease the number of the accident was decreased the severity of the accident. This achieved by making a prediction model. The prediction model can predict the severity of the accident based on the attribute affecting the severity of the accident. In this research, Days, Type of Road, Weather, Condition of Road, Time of the accident, Sex of Driver, and Type of Vehicle were chosen as attributes to make prediction model of accident severity. Naive Bayes algorithm was used to make the model which can predict accident severity. The result was an accident prediction model with an accuracy of 39.49% to predict accident severity and the probability of an accident.

1. Introduction

Accidents are defined as an unplanned and controlled event that can be caused by humans, situations, environmental factors, or combinations of these things [1]. The causes of traffic accidents were grouped into four elements, namely human, vehicle, road, and environment [2]. Environmental factors were weather conditions (foggy and rainy). Weather conditions had a significant impact on vehicle performance, driver's visibility, driver behavior, travel demand, traffic flow characteristics, and traffic safety [3]. A traffic accident is one of the leading cause of death in Indonesia. The amount of traffic accident in Semarang Toll Road were 501 from 2007 to 2017. A traffic accident has a level of severity in which the highest was death. Based on this, any attempt to increase safety in Toll Road need to be done, and one of the ways to do this is by decreasing the level of severity in an accident.

In their research, [4] said that many factors are leading to how an accident happens namely environmental factor like weather condition, type of vehicle, driver behavior and characteristic factor like an age of driver and sex type of driver. These factors have a role in determining the severity level of the accident. In other research, [5] said that by applying the data mining technique to make a prediction model in these traffic accident data, it could help decision maker to make a decision related to the safety of a driver. So in accordance with this, we can agree that safety in Toll Road can be increased by making a prediction model of accident severity.

According to [6], data mining was a process to gain pieces of information from a group of data which help in making a decision. Data mining consists of Classification, Clustering, Estimation, and

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This certificate is given to Dr. Naniek Utami Handayani, S.Si., MT for the contribution in presenting a submission entitle

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