

**LEMBAR  
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW  
KARYA ILMIAH : JURNAL ILMIAH**

Judul Jurnal Ilmiah (Artikel)	:	Time – Dependent Learning Effect and Deterioration on Single Machine's Scheduling Penulis : Dian Ayu Nurul Ihsani, <b>Sunarsih</b> , Robertus Heri		
Jumlah Penulis	:	3 orang		
Status Pengusul :	:	<del>Penulis pertama</del> /penulis kedua/ <del>penulis korespondensi</del>		
Identitas Jurnal Ilmiah	:	a.	Nama Jurnal	: Global Journal of Researches in Engineering : Industrial Engineering.. Penerbit :
	:	b.	Nomor ISSN	: Online ISSN: 2249-4596 & Print ISSN: 0975-5861
	:	c.	Volume, nomor, bulan tahun	: Volume 14 Issue 4, 2014, pp : 25-29.
	:	d.	Penerbit	: Publisher: Global Journals Inc, USA
	:	e.	DOI artikel (jika ada)	: -
	:	f.	Alamat web jurnal	:
URL JURNAL : <a href="https://engineeringresearch.org/index.php/GJRE/article/view/1226">https://engineeringresearch.org/index.php/GJRE/article/view/1226</a>				
URL ARTIKEL : <a href="https://eprints2.undip.ac.id/1252/1/Artikel%20C8.pdf">https://eprints2.undip.ac.id/1252/1/Artikel%20C8.pdf</a>				
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Kategori Publikasi Jurnal Ilmiah : Jurnal Ilmiah Internasional

(beri ✓ pada kategori yang tepat)

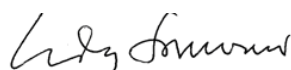
Jurnal Ilmiah Nasional Terakreditasi

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Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi jurnal (10%)	1,75	2	1,87
b. Ruang lingkup dan kedalaman pembahasan (30%)	5,5	6	5,75
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	5,75	6	5,88
d. Kelengkapan unsur dan kualitas penerbit (30%)	5,8	6	5,9
<b>Total = (100%)</b>	18,8	20	19,4

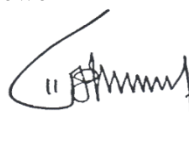
Reviewer 2



Prof. Dr. Edy Soewono  
NIP. 195206261980031003  
Unit kerja : Departemen Matematika FMIPA ITB

Semarang, 24-9- 2018

Reviewer 1



Prof. Dr. Widowati, MSi  
NIP. 196902141994032002  
Unit kerja : Departemen Matematika, FSM UNDIP

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a. Kelengkapan unsur isi jurnal (10%)	2,00			1,75
b. Ruang lingkup dan kedalaman pembahasan (30%)	6,00			5,5
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	6,00			5,75
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	6,00			5,8
<b>Total = (100%)</b>	20,00			18,8
<b>Nilai Pengusul = 60% * ..... =</b>				

**Catatan Penilaian artikel oleh Reviewer :**

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

Unsur isi jurnal baik.

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

Hasil dan diskusi tentang actual processing time model baik.

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

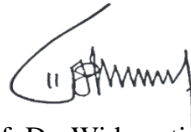
Data dan informasi cukup mutakhir,

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

Kualitas penerbit baik. Terdapat 5 referensi kedaluwarsa (lebih dari 10 tahun) dari 12 referensi yang digunakan.

Semarang, 18-8- 2018

Reviewer 1



Prof. Dr. Widowati, MSi

NIP. 196902141994032002

Unit kerja : Dept. Matematika FSM Undip

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a) Kelengkapan unsur isi jurnal (10%)	2,00			2
b) Ruang lingkup dan kedalaman pembahasan (30%)	6,00			6
c) Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	6,00			6
d) Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	6,00			6
<b>Total = (100%)</b>	20,00			20
<b>Nilai Pengusul = 60% * ..... =</b>				

**Catatan Penilaian artikel oleh Reviewer :**

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

Materi kajian sesuai dengan judul artikel. Referensi cukup banyak, dengan beberapa yang up to date.

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

Kajian meliputi aplikasi matematika pada sistem manufacturing dengan batasan single machine dengan EOQ.

Kajian dilakukan dengan cukup detail.

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

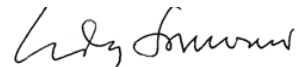
Substansi memuat kebaruan yang cukup untuk standart publikasi international.

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

Artikel terbit di journal international yang sudah terbit sampai dengan volume 14.

Semarang, 24/9/ 2018

Reviewer 2



Prof. Dr. Edy Soewono  
NIP. 195206261980031003

Unit kerja : Dept. Matematika FMIPA ITB

## Time-Dependent Learning Effect and Deterioration on Single Machine's Scheduling

I Dian Ayu Nurul, S Sunarsih... - Global Journal of ... - eprints.undip.ac.id

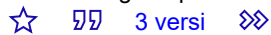
**Time-Dependent Learning Effect and Deterioration on Single Machine's Scheduling.** Dian Ayu Nurul , Ihsani and Sunarsih, Sunarsih and Robertus Heri , Soelistyo **Time-Dependent Learning Effect and Deterioration on Single Machine's Scheduling.** Global Journal of Researches in Engineering: G Industrial Engineering Volume 14 Issue 4 Version 1.0 Year 2014 . [img], PDF - Published Version 742Kb. Item Type: Article. Subjects: Q Science > QA Mathematics. Divisions: Faculty of Science and Mathematics > Department of Mathematics. ID Code: 65322. Deposited ...



## Time-Dependent Learning Effect and Deterioration on Single Machine's Scheduling

DAN Ihsani, RH Sunarsih - Global Journal of Research In ..., 2014 - engineeringresearch.org

Learning effect and deterioration do not always occur separately. If both of them are founded simultaneously, the actual processing time of the jobs will both increase and decrease at the same time. The actual processing time is defined by a function of the starting time and position of jobs in the sequence. In this paper, the effect of learning and deterioration is applied to single machine's scheduling problem in a paper-mill. Learning effect as a result of regular performance-evaluation reduce the effect of deterioration up to 206, 5509 ...



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## Vol 14, No 4-G (2014): The Global Journal of Researches in Engineering

### Articles

A Measuring of a Mass Flow with Geometrically Deformed Orifice Plates  
(<https://engineeringresearch.org/index.php/GJRE/article/view/1224>)

Vol 14 Issue 4

Kis R., Malcho, M., Janovcova M.

 [PDF \(https://engineeringresearch.org/index.php/GJRE/article/view/1224/1156\)](https://engineeringresearch.org/index.php/GJRE/article/view/1224/1156)

Optimization of Supply Chain Network Perspective Environmental Impact Based on Fuzzy Mathematical Programming  
(<https://engineeringresearch.org/index.php/GJRE/article/view/1225>)

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Time-Dependent Learning Effect and Deterioration on Single Machine<sup>TM</sup>s Scheduling  
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Dian Ayu Nurul Ihsani, Sunarsih, Robertus Heri

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Productivity Improvement by Lean Manufacturing an Automobile Industry with the Help of Method Study  
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Vol 14 Issue 4

Jitendra Mandloi, Mr. Abhishek Yadav



## A Measuring of a Mass Flow with Geometrically Deformed Orifice Plates

By Kiš R., Malcho & M., Janovcová M.

*University of Zilina, Slovakia*

*Abstract-* This work aims to present an impact of an orifice plate's deformation to an accuracy of measured mass flow of an air. Measurements were analyzed at an experimental device, which was a miniature of measuring track for measuring mass flows of natural gas in high-pressure natural gas pipelines. Measurements were repeated at various mass flows and different values of deformations of orifice plates. There was prediction, that changing orifice plate's geometry could cause differences in measured pressure values, which could affect required mass flow value. This paper tries to focus on behavior of the air flowing through the pipeline's measuring track with installed differently deformed orifice plates. It compares values measured by undeformed orifice plate and differently deformed orifice plates.

*GJRE-G Classification : FOR Code: 290502*



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GLOBAL JOURNAL OF RESEARCHES IN ENGINEERING: G  
INDUSTRIAL ENGINEERING  
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# Optimization of Supply Chain Network Perspective Environmental Impact based on Fuzzy Mathematical Programming

By Subrata Talapatra & Md. Shakil

*Khulna University of Engineering and Technology (KUET), Bangladesh*

**Abstract-** Supply chain management (SCM) is concerned with a complex business relations network that contains interrelationships between various entities, such as suppliers, manufacturers, distribution centers and customers. SCM integrates these entities and manages their interrelationships through the use of information technology to meet customer expectation effectively along the entire value chain. Thus, one of the vital issues in supply chain management is the design of the value chain network. In this paper, a multi objective fuzzy mathematical programming model is developed to optimize the supply chain networking under inherent uncertainty of input data. The proposed model is able to optimize the environmental impacts beside the traditional cost minimization objective to make a fair balance between them. The model determines the fuzzy capacities of the facilities and the design of the network configuration with a minimum total cost. A real case is used to demonstrate the significance and applicability of the developed fuzzy optimization model as well as the usefulness of the proposed solution approach. The developed model is solved by a professional software package (LINDO), and the computational results are discussed.

**Keywords:** optimization, fuzzy, supply chain network design, environmental impact and model formulation.

**GJRE-G Classification :** FOR Code: 290502p



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