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- | | |
|---|---------|
| Model Jaringan Distribusi Produk dengan Pendekatan Fuzzy Multi Objective Programming | 1-15 |
| Suci Oktri Viarani M., Henmaidi, Alexie Herryandie B.A. | |
| Optimasi AHP dalam mendukung UMKM di Bangka Belitung dalam Memanfaatkan E-Commerce | 16-25 |
| Hilyah Magdalena, Syafrul Irawadi | |
| An Application of Genetic Algorithm in Determining Salesmen's Routes: A Case Study | 26-34 |
| Noufal Zhafira, Feri Afrinaldi, Taufik | |
| Penentuan Rute Kendaraan Heterogen Menggunakan Algoritma Insertion Heuristic | 35-45 |
| Nanda Saputra, Prima Denny Sentia, Andriansyah | |
| Peningkatan Mutu Proses Pembuatan Cat Solvent dengan Metode Taguchi di PT JI | 46-54 |
| Hery Hamdi Azwir, Mahfud Mufadhol | |
| Leadership Support and Employee Creativity: A Meta-Analysis | 55-63 |
| Farid Wajdi | |
| Model Zero-One Linear Programming untuk Penjadwalan Raw Mill dan Cement Mill | 64-74 |
| Eri Wirdianto, Ericho Chandra Arnes | |
| Penerapan Ergonomi pada Perancangan Mesin Pewarna Batik untuk Memperbaiki Postur Kerja | 75-85 |
| Siswiyanti, Rusnoto | |
| Penerapan Quality Function Deployment (QFD) pada Pengembangan Produk Sabun di UKM Kota Batam | 86-100 |
| Welly Sugianto, Rony Prasetyo | |
| Pengembangan Algoritma Manajemen Risiko Proyek Konstruksi | 101-112 |
| Mutia Yetrina | |



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DAFTAR ISI

Daftar Isi

Editorial

Model Jaringan Distribusi Produk dengan Pendekatan Fuzzy Multi Objective Programming 1-15

Suci Oktri Viarani M., Henmaidi, Alexie Herryandie B.A.

Optimasi AHP dalam mendukung UMKM di Bangka Belitung dalam memanfaatkan E-Commerce 16-25

Hilyah Magdalena, Syafrul Irawadi

An Application of Genetic Algorithm in Determining Salesmen's Routes: A Case Study 26-34

Noufal Zhafira, Feri Afrinaldi, Taufik

Penentuan Rute Kendaraan Heterogen Menggunakan Algoritma Insertion Heuristic 35-45

Nanda Saputra, Prima Denny Sentia, Andriansyah

Peningkatan Mutu Proses Pembuatan Cat Solvent dengan Metode Taguchi di PT JI 46-54

Hery Hamdi Azwir, Mahfud Mufadhol

Leadership Support and Employee Creativity: A Meta-Analysis 55-63

Farid Wajdi

Model Zero-One Linear Programming untuk Penjadwalan Raw Mill dan Cement Mill 64-74

Eri Wirdianto, Ericho Chandra Arnes

Penerapan Ergonomi pada Perancangan Mesin Pewarna Batik untuk Memperbaiki Postur Kerja 75-85

Siswiyanti, Rusnoto

Penerapan Quality Function Deployment (QFD) pada Pengembangan Produk Sabun di UKM Kota Batam 86-100

Welly Sugianto, Rony Prasetyo

Pengembangan Algoritma Manajemen Risiko Proyek Konstruksi 101-112

Mutiara Yetrina

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EDITORIAL

JOSI Volume 17, Number 1, 2018 consists of ten articles that can be grouped into four fields: (1) Four articles in the field of Operations Research; (2) Three articles in Engineering Management; (3) Two articles in Manufacturing and Quality Assurance; (4) One article in the field of Ergonomics and Human Factors Engineering.

The first article in the field of Operations Research features a distribution network model that uses a cement plant as its case study object. The approach used is fuzzy multi-objective programming. The second article is a case study of the application of genetic algorithms to determine better salesman vehicles' routes. This article proves that the use of genetic algorithms in determining vehicles' routes can result in a reduction in distribution time by up to 30%. The third article also discusses the determination of the vehicle route but uses an insertion heuristic algorithm. The approach used in this article is able to generate cost savings of 6%. The fourth article in the field of Operations Research is a binary linear programming application in machine scheduling. This article takes the cement factory as a case study.

Three articles in Engineering Management consist of articles on decision theory, performance improvement, and project management. The article on decision theory discusses Analytical Hierarchy Process (AHP) applications in helping small and medium enterprises utilize e-commerce. The article on performance improvement examines the relationship between leadership supports for employee creativity. The final article, on project management, develops an algorithm for project construction risk management.

The first article in the field of Manufacturing and Quality Assurance discusses the application of Quality Function Deployment (QFD) in determining the characteristics of products that meet customer desires. Soap for hotel is the selected object to be discussed in this article. The next article discusses the efforts to improve the quality of solvent paint using Taguchi method. In this article, the use of the Taguchi method proved to improve the process capability index.

The article in the field of Ergonomics and Human Factors Engineering in this edition, discusses the application of ergonomic principles in designing batik dye machine. The goal is to improve work posture using Rapid Entire Body Assessment (REBA) method.

Feri Afrinaldi

Editor