# Jurnal Teknik Industri

## Jurnal Keilmuan dan Aplikasi Teknik Industri

Application of the Mahalanobis-Taguchi System in Renal Profile of the Methadone Flexi Dispensing Program

Siti Khadijah Mat Saad, Sri Nur Areena Mohd Zaini, Mohd Yazid Abu

The Influence of Perceived Ease of Use and Perceived Usefulness on E-Wallet Continuance Intention

Michelle Olivia, Nony Kezia Marchyta

A Modified Camel Algorithm for Optimizing Green Vehicle Routing Problem with Time Windows

Dana Marsetiya Utama, Wa Ode Nadhilah Safitri, Annisa Kesy Garside

Freight Forwarding Company Selection Using Hybrid IFAHP-IFTODIM Method Fara El Nandhita Pratiwi, Agus Widodo, Isnani Darti

A Goal Programming Model for Joint Decision Making of Order Allocation, Supplier Selection, and Carrier Selection Considering Corporate Social Responsibility Cucuk Nur Rosyidi, Alfia Makrifatul Khasanah, Pringgo Widyo Laksono

Green Supply Chain Performance Measurement using Green SCOR Model in Agriculture Industry: A Case Study

Arjuna, Santoso, Rainisa Maini Heryanto

Improving Online Learning through the Use of Learning Management System Platform: A Technology Acceptance Model-Technology Readiness Index Combination Model Approach Ilma Mufidah, Luthfi Romiz Husaini, Dino Caesaron

Capability Factor Identification and Influence Assesment on Supply Chain Resilience in Indonesian Automotive Industry

I Anna Tul Munikhah, Ade Yanyan Ramdhani

Accredited by: Director General of Intellectual Property Directorate General of Research and Development No. 32a/E/KPT/2017

UNIVERSITAS KRISTEN PETRA-SURABAYA						
Jurnal Teknik Industri	Vol. 24	No. 1	Hlm. 1-82	Surabaya June 2022	ISSN 1411-2485 (print) ISSN 2087-7439 (Online)	

### JURNAL TEKNIK INDUSTRI

(Jurnal Keilmuan dan Aplikasi Teknik Industri)

Volume 24, Number 1, June 2022

ISSN 1411-2485 (print) / ISSN 2087-7439 (online)

#### Editor-in-Chief:

#### Siana Halim

Department of Industrial Engineering, Petra Christian University, Surabaya, Indonesia, Subject area: Mathematical Modeling, Industrial Statistics (Scopus H-Index = 4).

#### **Editors:**

#### **Hui Ming Wee**

Department of Industrial and Systems Engineering, Chung Yuan Christian University, Chung-Li, Taiwan, Subject Area: Industrial Engineering (Scopus H-Index = 50).

#### Daniel Indarto Prajogo

Department of Management, Monash University, Melbourne, Australia, Subject Area: Business, Management and Accounting, Decision Sciences (Scopus H-Index = 42).

#### I Gede Agus Widyadana

Department of Industrial Engineering, Petra Christian University, Surabaya, Indonesia, Subject Area: Logistics, Optimization, Industrial Engineering (Scopus H-Index = 13).

#### Erwie Zahara

Department of Marketing and Logistics Management, St. John's University Taiwan, Taiwan, Taiwan, Subject Area: Logistics Management (Scopus H-Index = 10).

#### **Huynth Trung Luong**

Department of Industrial and Systems Engineering, Asian Institute of Technology Thailand, Bangkok, Thailand, Subject Area: Industrial Engineering (Scopus H-Index = 14).

#### **Reviewers:**

#### Danny Prabowo Soetanto

Department of Entrepreneurship, Lancaster University, Lancaster, United Kingdom, Subject Area: Business, Management and Accounting, Engineering, (Scopus H-Index = 13).

#### **Anthony Halog Basco**

School of Geography, University of Queensland, Brisbane, Australia, Subject Area: Environmental Science and Engineering (Scopus H-Index = 20).

#### Indra Gunawan

University of Adelaide, Adelaide, Australia, Subject Area: Reliability Engineering (Scopus H-Index = 17).

#### Budhi Arta Surva

Victoria University of Wellington, New Zealand, Subject Area: Portfolio Optimization, Econometrics, Statistics (Scopus H-Index = 6).

#### **Markus Hartono**

Department of Industrial Engineering, University of Surabaya, Indonesia, Subject Area: Ergonomics, (Scopus H-Index = 7).

#### Takashi, Irohara

Faculty of Science and Technology, Sophia University, Tokyo, Japan, Subject Area: Decision Science (Scopus H-Index = 9).

#### Andre' Lien

Department of Product Design, Norges Teknisk-Naturvitenskapelige Universitet, Trondheim, Norway, Subject Area: Product Design (Scopus H-Index = 6).

#### Hindriyanto Dwi Purnomo

Department of Information Technology, Satya Wacana Christian University, Salatiga, Indonesia, Subject Area: Optimization (Scopus H-Index = 8).

#### Bernardo Nugroho Yahya

Department of Industrial and Management Engineering, Hankuk University of Foreign Studies, Seoul, South Korea, Subject Area: Industrial Engineering (Scopus H-Index = 9).

#### Eka Budiarto

Swiss German University, Bumi Serpong Damai, Tangerang Selatan, Indonesia, Subject Area: Mathematical Modeling (Scopus H-Index = 3).

#### Gan Shu San

Department of Mechanical Engineering, Petra Christian University, Surabaya, Indonesia, Subject Area: Mathematical Modeling (Scopus H-Index =4).

#### Iwan Halim Sahputra

Birmingham University, Birmingham, United Kingdom, Subject Area: Material Technique, Engineering, (Scopus H-Index = 7).

#### Indriati N, Bisono

Department of Industrial Engineering, Petra Christian University, Surabaya, Indonesia, Subject Area: Experiment Design (Scopus H-index = 2).

#### Ronald Sukwadi

Department of Industrial Engineering, Universitas Katolik Indonesia Atma Jaya, Jakarta, Indonesia, Subject Area: Decision Science (Scopus H-Index = 7).

#### Yugowati, Praharsi

Politeknik Perkapalan Negeri Surabaya, Indonesia, Subject Area: Optimization (Scopus H-Index = 4).

#### Liem Fervanto

Applied Material, Sunnyvale, California, USA, Subject Area: Sig-Sigma (Scopus H-Index = 2).

#### The Jin Ai

Department of Industrial Engineering, Universitas Atma Jaya, Yogyakarta, Indonesia, Subject Area: Particle Swarm Optimization, Vehicle Routing Problem, Inventory Management, Industrial Engineering.

#### Hendy Rahardjo

Chalmers University of Technology, Chalmers, Sweden, Subject Area: Quality Management, Statistical Engineering, Healtcare, Improvement (Scopus H-Index = 15).

#### Henry Pribadi

Prasetiya Mulya Business School, Jakarta, Indonesia, Subject Area: Business Management.

#### Inggrid

Australian National University, Canberra, Australia, Subject Area: Econometrics, Economics.

#### Jani Rahardio

Department of Industrial Engineering, Petra Christian University, Surabaya, Indonesia, Subject Area: Total Quality Management, Six-Sigma, Decision Science (Scopus H-Index = 1).

#### I Nyoman Sutapa

Department of Industrial Engineering, Petra Christian University, Surabaya, Indonesia, Subject Area: Supply Chain Management, Reverse Engineering (Scopus H-Index = 2).

#### Tanti Octavia

Department of Industrial Engineering, Petra Christian University, Surabaya, Indonesia, Subject Area: Warehouse Management, Industrial Engineering (Scopus H-Index = 2).

#### Suprayogi

Department of Industrial Engineering, Bandung Institute of Technology, Indonesia, Subject Area: Transportation and Distribution, Maritime Logistic, Operation Research, Soft Computing and Algorithm Design (Scopus H-Index = 5).

#### Administrative Assistant: Sumarno

#### **Editor and Administration Address:**

## Institute of Research and Community Outreach

Petra Christian University

Jl. Siwalankerto 121-131, Surabaya, 60236

Phone. 031-2983147, 2983139

Email: jurnal\_ti@petra.ac.id; Home page: http://jurnalindustri.petra.ac.id

#### Published by:

#### Institute of Research and Community Outreach

Petra Christian University

**Jurnal Teknik Industri** is a refereed journal, published twice a year, in June and December. Subscription (Incl. postage) Rp. 150.000/year (for Indonesia), US \$75/year (for abroad), and should be transferred to Zeplin Jiwahusada Tarigan, acc no: 700-44-72058-00 Bank CIMB Niaga cab. Univ. Kristen Petra, Surabaya, INDONESIA.

The Editor accepts the scientific essay about the results of the research, surveys, and review the literature that is closely related to the field of industrial engineering.

## JURNAL TEKNIK INDUSTRI

(Jurnal Keilmuan dan Aplikasi Teknik Industri)

Volume 24, Number 1, June 2022

ISSN 1411-2485 (print) / ISSN 2087-7439 (online)

## **Contents**

Application of the Mahalanobis-Taguchi System in Renal Profile of the Methadone Flexi Dispensing Program	
Siti Khadijah Mat Saad, Sri Nur Areena Mohd Zaini, Mohd Yazid Abu	1-12
The Influence of Perceived Ease of Use and Perceived Usefulness on E-Wallet Continuance Intention	
Michelle Olivia, Nony Kezia Marchyta	13-22
A Modified Camel Algorithm for Optimizing Green Vehicle Routing Problem with Time Windows	
Dana Marsetiya Utama, Wa Ode Nadhilah Safitri, Annisa Kesy Garside	23-36
Freight Forwarding Company Selection Using Hybrid IFAHP-IFTODIM Method Fara El Nandhita Pratiwi, Agus Widodo, Isnani Darti	37-44
A Goal Programming Model for Joint Decision Making of Order Allocation, Supplier Selection, and Carrier Selection Considering Corporate Social Responsibility	
Cucuk Nur Rosyidi, Alfia Makrifatul Khasanah, Pringgo Widyo Laksono	45-52
Green Supply Chain Performance Measurement using Green SCOR Model in Agriculture Industry: A Case Study	
Arjuna, Santoso, Rainisa Maini Heryanto	53-60
Improving Online Learning through the Use of Learning Management System Platform: A Technology Acceptance Model-Technology Readiness Index Combination Model Approach	
Ilma Mufidah, Luthfi Romiz Husaini, Dino Caesaron	61-72
Capability Factor Identification and Influence Assesment on Supply Chain Resilience in Indonesian Automotive Industry	
I Anna Tul Munikhah. Ade Yanyan Ramdhani	73-82