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Particle Swarm Optimization Algorithm to Solve Vehicle Routing Problem with Fuel Consumption Minimization 1-10

Baiq Nurul Izzah Farida Ramadhani, Annisa Kesy Garside

Lean Analysis Framework for Waste Management: A Case of Indonesian Textile Company 11-21

Widyatmoko Reza Prambudi, Ida Giyanti

Designing Persuasive Application to Promote Public Transportation Use 22-32

Thedy Yogasara, Vania Edra Christabel Naomi

Supporting Factors for Community Participation in The Waste Bank Program: A Study in Sleman Regency of Indonesia 33-41

Reni Dwi Astuti, Dicky Matura Saban, Utaminingsih Linarti

Risk Assessment During Covid-19 and Learning from Home: Evidence from University Students in Indonesia 42-51

Herman Rahadian Soetisna, Ari Widyanti, Airin Syafira, Dwita Astari Pujiartati

Ergonomic Evaluation on Chicken Feeder Tool at Egg-Laying Chicken Farm SME 52-60

Nilda Tri Putri, Elita Amrina, Dicky Fatrias, Insannul Kamil, Nabila Humaida

Analysis of Environmental Impact and Municipal Waste Management Strategy: A Case of The Piyungan Landfill, Yogyakarta, Indonesia 61-71

Ahmad Fakhurozi, Tatbita Titin Suhariyanto, Muhammad Faishal



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DAFTAR ISI

Daftar Isi

Editorial

Particle Swarm Optimization Algorithm to Solve Vehicle Routing Problem with Fuel Consumption Minimization	1-10
<i>Baiq Nurul Izzah Farida Ramadhani, Annisa Kesya Garside</i>	
Lean Analysis Framework for Waste Management: A Case of Indonesian Textile Company	11-21
<i>Widyatmoko Reza Prambudi, Ida Giyanti</i>	
Designing Persuasive Application to Promote Public Transportation Use	22-32
<i>Thedy Yogasara, Vania Edra Christabel Naomi</i>	
Supporting Factors for Community Participation in The Waste Bank Program: A Study in Sleman Regency of Indonesia	33-41
<i>Reni Dwi Astuti, Dicky Matura Saban, Utaminingsih Linarti</i>	
Risk Assessment During Covid-19 and Learning from Home: Evidence from University Students in Indonesia	42-51
<i>Herman Rahadian Soetisna, Ari Widyanti, Airin Syafira, Dwita Astari Pujiartati</i>	
Ergonomic Evaluation on Chicken Feeder Tool at Egg-Laying Chicken Farm SME	52-60
<i>Nilda Tri Putri, Elita Amrina, Dicky Fatrias, Insannul Kamil, Nabila Humaida</i>	
Analysis of Environmental Impact and Municipal Waste Management Strategy: A Case of The Piyungan Landfill, Yogyakarta, Indonesia	61-71
<i>Ahmad Fakhurozi, Tatbita Titin Suhariyanto, Muhammad Faishal</i>	

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EDITORIAL

Journal on Optimization of Systems at Industries (JOSI) Volume 20 Number 1 2021 consists of seven articles. In general, the articles in this edition cover several interesting topics in the domain of system modeling, optimization and analysis.

The first article proposes optimization model of an extended VRP problem with fuel consumption minimization considering the restricted loading weight and traveling time. The proposed model is then validated by solving such problem faced by a bottled drinking water distribution company. The second article develops a comprehensive lean analysis framework combining various lean techniques, and explores its application for the specific case of Indonesian textile company. The product design domain is studied in the third article. Motivated by the goal to reduce carbon emissions resulting from transportation activities, this article discusses a design of persuasive application in order to encourage people to use public transportation more frequently, and then evaluates the application prototype based on two main category of product performance and persuasive qualities.

Another article proposes to examine supporting factors that affect community Participation in The Waste Bank Program based on the theory of planned behavior coupled with the factor of “knowledge of how and what” and “knowledge of consequences”. The one that is no less fascinating, COVID-19 related-topic, is also discussed in the next article. A descriptive research is conducted to examines the risk assessment in relation to physical, mental, and psychosocial condition of Indonesian students toward COVID-19 and activity of learning from home. Other article studies the design of an egg-laying chicken feeder for small and medium enterprise (SME) of egg-laying chicken farmin in order to reduce the worker’s pain, of which Nordic Body Map questionnaire, physiological workload, and NIOSH lifting equation are used to evaluate the proposed design. Lastly, this edition is sealed with article analyzing the impact of pollution in the Landfill located in Yogyakarta, Indonesia, from an economic, environmental, and social perspective utilizing fishbone diagram and stakeholder analysis, and then formulates a waste management strategy using SWOT analysis.

JOSI editorial team would like to thank all the authors who have contributed to this edition. Thank you also goes to the reviewers who have worked hard to improve the quality of all articles in this edition. All of these articles will contribute to the transition of ideas and knowledge in the field of Industrial Engineering.

Dicky Fatrias

Managing Editor