From: **DSL** <dsl@growingscience.com>
Date: Tue, Jan 19, 2021 at 3:38 PM
Subject: [DSL] Submission ID 1027
To: <warsono.1963@fmipa.unila.ac.id>, <info@growingscience.com>

Thank you for your submission to DSL. Below is a copy of the information submitted for your records.

Submission ID: 1027

Title: Modeling Generalized Statistical Distributions of PM2.5 Concentrations During the COVID-19 Pandemic in Jakarta, Indonesia

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Topic(s): Multiple Objective Decision Making

Keywords: COVID-19; generalized log-logistic; goodness-of-fit; lognormal; PM2.5

Abstract: Understanding the probabilistic or statistical behavior of air concentrations is necessary for the effective management of air pollution, such as PM2.5. Failure to consider the appropriateness of the model can lead to making inferences that are not supported by scientific evidence. The main focus of this article is to find the best statistical distribution in fitting PM2.5 concentrations in the periods of February–June 2018 and February–June 2019 (the periods without COVID-19) and in the period of February–June 2020 (the period with COVID-19) in Jakarta, Indonesia. This article considers making an assessment of the performance of both generalized distributions (e.g., generalized gamma, generalized extreme value, and generalized log-logistic [GLL]) and classical distributions (such as lognormal [LN], gamma, Weibull, log-logistic, and Gumbel) in modeling daily concentrations of PM2.5 in the period of February–June 2020, or the period during which the COVID-19 pandemic is present, in Jakarta. For comparisons purposes, this study also analyzed PM2.5 concentrations in the periods of February–June 2018 and February–June 2019. The comparative evaluation of the models of each period of data uses graphical analyses and goodness-of-fit statistics. The results of applications indicate that the generalized distributions fit the data better than do the classical distributions. Particularly, compared with the classical distributions, including the LN model, the GLL distribution is the most appropriate model in fitting PM2.5 concentrations in the periods without and during the period with COVID-19 in Jakarta, Indonesia.

Comments: Dear Prof. Makui,

Please find our newest result on the modelling of Generalized Statistical Distributions of PM2.5 Concentrations During the COVID-19 Pandemic in Jakarta, Indonesia

Dear Author

I have received the comments from one of the reviewers and it appears that the paper could be considered for publication should it go under careful editing. We have a group of people who could do this and in case they do the editing your paper will be accepted. The cost of our service is $700USD. However, it is not obligatory and you may use your own service. If you wish to use our service please let me know, otherwise, feel free to upload a high quality paper using UPLOAD option. In case you wish to use our service, please let me know so that I could send you details of the payment.

Sincerely
Makui

Reviewer #1

This paper can be published after the paper is proof-read, for instance in the abstract

For comparisons purposes, this study also analyzed $PM_{2.5}$ concentrations in the periods of February–June 2018 and February–June 2019.

should be

For comparisons purposes, this study also analyzed $PM_{2.5}$ concentrations in the periods of February–June 2018 and February–June 2019.

---------- Forwarded message ---------
From: **Decision Science Letters** <decisionletters@gmail.com>
Date: Wed, Jan 27, 2021 at 12:37 AM
Subject: Re: Your paper in DSL #1029
To: WARSONO 1963 <warsono.1963@fmipa.unila.ac.id>

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Sincerely
Makui

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Thank you.

KInd regards,

Warsono, Ph.D.

On Thu, Jan 28, 2021 at 3:22 PM Decision Science Letters <decisionletters@gmail.com> wrote:
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>
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> Sincerely
> Makui

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