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[DSL] Submission ID 992

1 message

DSL <dsl@growingscience.com>

Tue, Dec 29, 2020 at 10:32 AM

Reply-To: dsl@growingscience.com

To: dian.kurniasari@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: 992

Title: Simulation of Generalized Gamma Distribution with Maximum Likelihood Estimation and Expectation-Maximization Algorithm on Right Censored Data Type 1

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Topic(s): Multiple Objective Decision Making

Keywords: Generalized Gamma Distribution; Right Censored Data type 1; Expectation Maximization (EM); Maximum Likelihood Estimation (MLE); MSE

Abstract: The Generalized Gamma distribution is very suitable for modeling data with various forms of hazard (risk) functions, this makes the Generalized Gamma distribution often used in survival analysis. Survival analysis aims are to predict chances of survival, disease recurrence, death, and other events over a period of time. One characteristic of survival data is the possibility of sensors. Let X be the life span of the person being studied and the right censorship time of C_r , X is assumed to be independent with the probability density function $f(x)$, the survival function $S(x)$, and the hazard function $h(x)$. A person's X life span will be known if X is less than or equal to C_r . If X is greater than C_r , the individual X survives or is censored right now. Statistical inference, especially parameter estimation is needed in analyzing empirical data. Obviously the estimation results obtained are expected to be a good estimator, namely to meet the nature of unbiased and minimum variance. This paper will discuss the results of the estimation of Generalized Gamma distribution parameters with type 1 right censored data through simulations using the Expectation Maximization method and the Maximum Likelihood Estimation method. The simulation is conducted by generating data with the sample size: 25, 50, 100, 200, 500, 1000, 1500 and 2000 as well as determining censored data of 10%, 20% and 30% by first setting the parameters used which are obtained from the data of patients with gastric cancer namely $\alpha = 1.0649$, $\beta = 1,072$, $\theta = 59.766$. Based on the results obtained from the simulations on the two estimation methods that the parameter estimation using the Maximum Likelihood Estimation method is better than the Expectation Maximization method because it provides a smaller bias and MSE value where the larger the sample size used, the estimated parameter value will get closer to the parameter in fact. In addition, the Expectation Maximization method can also be used as an alternative estimation of generalized gamma distribution parameters with type 1 right censored data because it has a bias value and MSE approaching the MLE method.

Comments:



DIAN KURNIASARI <dian.kurniasari@fmipa.unila.ac.id>

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5 messages

service@intl.paypal.com <service@intl.paypal.com>
To: Dian Kurniasari <dian.kurniasari@fmipa.unila.ac.id>

Mon, Jan 11, 2021 at 1:49 PM

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DIAN KURNIASARI <dian.kurniasari@fmipa.unila.ac.id>
To: growingscience@gmail.com, Decision Science Letters <decisionletters@gmail.com>

Mon, Jan 11, 2021 at 1:53 PM

Dear Prof. Makui,

Please find below the charge of editing for my paper submitted DSL #992.

I am sorry for being late in sending the charge, as I was away for sometimes.

Please confirm to me if you have received my transfer.

Kind regards,
Dian Kurnasari
[Quoted text hidden]

Decision Science Letters <decisionletters@gmail.com>
To: DIAN KURNIASARI <dian.kurniasari@fmipa.unila.ac.id>

Mon, Jan 11, 2021 at 3:05 PM

Dear DIAN

Thanks for the payment. We will keep you informed shortly

Best
Sadjadi
[Quoted text hidden]

Decision Science Letters <decisionletters@gmail.com>
To: DIAN KURNIASARI <dian.kurniasari@fmipa.unila.ac.id>

Mon, Jan 11, 2021 at 10:49 PM


Dear DIAN

Kindly, please visit our website at http://growingscience.com/dsl/online_issues_dsl.html download your paper, read it very carefully and let me know if there is any problem. Attached, please find the acceptance letter. Also, please sign the attached copyright form and email it back to me.

Sincerely
Makui

On Mon, Jan 11, 2021 at 10:24 AM DIAN KURNIASARI <dian.kurniasari@fmipa.unila.ac.id> wrote:
[Quoted text hidden]

2 attachments

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DIAN KURNIASARI <dian.kurniasari@fmipa.unila.ac.id>
To: Decision Science Letters <decisionletters@gmail.com>

Tue, Jan 12, 2021 at 12:58 PM

Dear Prof. Makui,

Please find attached the copyright for our paper DSL #992.

Thank you.

Kind regards,

Dian

[Quoted text hidden]



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DIAN KURNIASARI <dian.kurniasari@fmipa.unila.ac.id>

Your paper in DSL #992

5 messages

Decision Science Letters <decisionletters@gmail.com>
To: dian.kurniasari@fmipa.unila.ac.id

Fri, Jan 1, 2021 at 3:36 PM

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

DIAN KURNIASARI <dian.kurniasari@fmipa.unila.ac.id>
To: Decision Science Letters <decisionletters@gmail.com>

Mon, Jan 4, 2021 at 8:30 AM

Dear Prof. Makui,

Okay, I am ready to pay the editing charge as long as the paper is accepted for publication at Decision Science Letters.

How can we pay the editing charge?

Thank you.

Kind regards,

Dian

[Quoted text hidden]

Decision Science Letters <decisionletters@gmail.com>
To: DIAN KURNIASARI <dian.kurniasari@fmipa.unila.ac.id>

Mon, Jan 4, 2021 at 5:54 PM

Dear Dian

Yes it will. You may use the following two options to make the payment.

1. PayPal: In this case you could make $\$700\text{USD} + 4\% = \728USD to our account: growingsscience@gmail.com
2. Bank account: Please make $\$700 + 15\% = \715USD to the following bank account

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Account Holder Last Name: Sadjadi
Bank Name: CIBC
Bank Address: [27 King St N, Waterloo, ON N2J 3Z6, Canada](#)
Transit Number: 00452
Bank Account: 9088636
International Bank Swift Code: CIBCCATT
Tel.: Phone: +1 519-886-2960

The address of the bank account holder is also as follows,

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[V7R 1N9 Canada](#)

Once you make the payment, we will keep you informed shortly.

Sincerely
Makui

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DIAN KURNIASARI <dian.kurniasari@fmipa.unila.ac.id>
To: Decision Science Letters <decisionletters@gmail.com>

Mon, Jan 18, 2021 at 10:13 AM

Dear Prof. Makui,

There 3 small errors need to be fixed in my paper.
I have put sticky note on the manuscript attached in this email.

Could you please inform us, when will this manuscript be published and have volume?
Thank you.

Kind regards,
Dian Kurniasari
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 **dsl_2021_3_small correction needed with sticky note.pdf**
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Decision Science Letters <decisionletters@gmail.com>
To: DIAN KURNIASARI <dian.kurniasari@fmipa.unila.ac.id>

Tue, Jan 19, 2021 at 6:53 PM

Dear DIAN

Done
Best

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