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Manuscripts ID	Journal Title	Submission Date	Papers Status	Latest Reviewer Comments	Action
MS-134289 63-2022082 1-112878.doc	Mathematics and Statistics	2022-08-21 11:29:13	Final Publication	Your manuscript has been published and the electronic version is available online.	<a href="#">Edit</a> <a href="#">Review Report(s)</a>

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### Journal Title

Mathematics and Statistics

### Manuscript Title

Bootstrap-t Confidence Interval on Local Polynomial Regression Prediction

### Abstract

This study offers two new algorithms based on the nested bootstrap resampling method to determine the bootstrap-t confidence interval in predicting local polynomial regression. The first algorithm performs paired bootstrap samples and residuals, and the second performs based on residuals. The first algorithm provides a reasonable scatterplot and coverage probability on a relatively large piece of data. In contrast, the second algorithm is more robust for any data size, including for a relatively small sample data size. As the sample data size increases, the coverage probability of the two algorithms is closer to the nominal coverage probability.

### Keywords

Bootstrap, Confidence Interval, Coverage Probability, Algorithm, Simulation.

### Copyright

Yes

### History Records

Date	Latest Status	Editor Comment
2022-11-03	Final Publication	Your manuscript has been published and the electronic version is available online.
2022-10-25	Accepted for Publication	Your manuscript has been accepted for publication, Please complete the payment following the Payment Instructions sent by Anthony Robinson (revision.hrpub@gmail.com) within 2 weeks. If you have already submitted payment, then please disregard this reminder.
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2022-08-21	Initial Screening	Your manuscript has been assigned to editors for initial screening. The outcome of initial screening will be sent to you by Chloe Crawford (preview.hrpub@gmail.com) within 7 business days.

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**ELMANANI SIMAMORA** <elmanani\_simamora@unimed.ac.id>

28 Okt 2022 04.00 ☆ ↶ ⋮

kepada Anthony ▾

Dear Anthony Robinson

We sent the revised file considering the results of the proofreading. We try to make the mathematical notation as simple as possible. Sorry for this change, but it doesn't detract from the previous meaning. We've revised it careful enough. Hopefully, there won't be any more mistakes.

Best regards  
Elmanani Simamora



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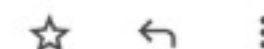
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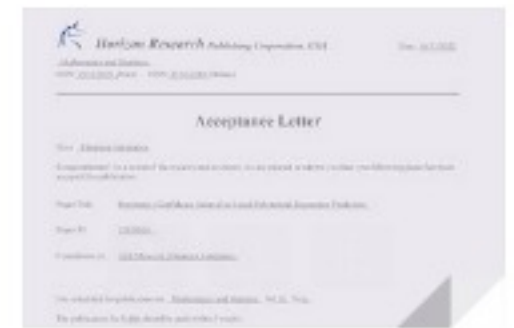
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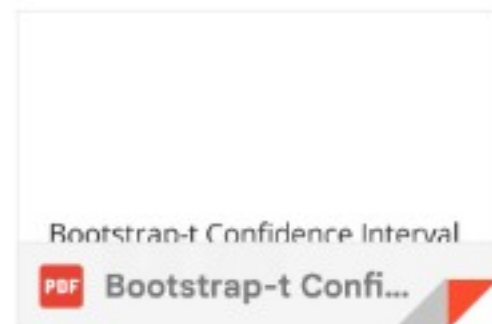
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# Revision after Peer Review (ID:13428963)-Bootstrap-t Confidence Interval on Local Polynomial Regression Prediction

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Main Content: Manuscript Status Update On (ID: 13428963): Current Status – Under Peer Review- Bootstrap-t Confidence Interval on Local Polynomial Regression Prediction

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Language: Inggris > Indonesia (Terjemahkan pesan) Nonaktifkan untuk: Inggris

Dear Elmanani Simamora,

Thank you very much for submitting your manuscript to HRPUB.  
In order to expedite the publication process, your manuscript entitled "Bootstrap-t Confidence Interval on Local Polynomial Regression Prediction" has been sent out to evaluate.  
But some problems need to be addressed.  
We would be grateful to you if you could revise your manuscript according to the following comments:

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2. Figure 8 is unclear. Please provide us the figures with high resolution to allow for reading the details of them. And make sure that all lines and