

Review Form 3

Journal Name:	Asian Journal of Probability and Statistics
Manuscript Number:	Ms_AJPAS_128619
Title of the Manuscript:	“Comparison of Some Optimizers in Long Short-Term Memory Networks with an Application to Tigris River Water Imports”
Type of the Article	

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This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	It is known that the effectiveness of LSTM can be enhance with the deep learning optimizer. However, there is limited research which discuss the best deep learning optimizer. This manuscript aims to contribute basis and reference for deep learning optimizer selection for improve the performance of LSTM.	
Is the title of the article suitable? (If not please suggest an alternative title)	The author can delete the word 'comparison', because many research which do not attach the word 'comparison' but the manuscript more talk about the comparison of method. For the suggestion The author can directly write that Deep Learning Optimizer in Long Short...	
Is the abstract of the article comprehensive? Do The author suggest the addition (or deletion) of some points in this section? Please write The author suggestions here.	The author already states the optimizer is really needed, but The author have not explained the urgency of the optimizer. The author can make correlation between gradient's objective function information and optimizer.	
Is the manuscript scientifically, correct? Please write here.	<ol style="list-style-type: none"> 1. The author can make figure 1, 2 and 3 by themselves. 2. The author should state the importance of optimizer for the problem in introduction. 3. The Gap research should be attached in introduction. 4. The author can put LSTM explanation as the sub-section of literature review 5. For all section, the author can give the information for all notations. 6. In LSTM section, the author should put the <i>block</i> equation. 7. Please pay attention to the all equation, for example you should write t-1 in the same size and give bracket sign. For example: $(t-1)$ 8. Please describe more about the data. 9. The author should provide the reference or the explanation of parameter selection, such as why 70% of the data was used for training, the batch size, learning rate, epoch, node count, etc. 10. Why did the author compare several epochs if the author only discusses one epoch? Please discuss other epochs. 11. In figure 4 and figure 5, please write the optimizer that the author used. 12. Please give the explanation of figure 4 and figure 5. 13. Why do the best optimizers found in the discussion differ from those in the abstract? Please make it same. 	
Are the references sufficient and recent? If The author have suggestions of additional references, please mention them in the review form.	You can add the reference as the basis for parameter selection.	
Is the language/English quality of the article suitable for scholarly communications?	Yes, it is.	
<u>Optional/General</u> comments	Overall the manuscript is quite good.	

PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<u>Are there ethical issues in this manuscript?</u>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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