Gmail **budi warsito <budiwrst2@gmail.com>**

Successful Manuscript Submission to JATIT

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JATIT <editor@jatit.org> 1 Mei 2018 02.11
Kepada: Budi-Warsito <budiwrst2@gmail.com>

We have received the manuscript for review and possible publication in Journal of Theoretical and Applied Information Technology.

ID of the manuscript is " 36632 " and Password is " Bklxt "

Please note the manuscript ID and use this as reference for correspondence regarding your submission. For updates on the status of your submission, please visit http://www.jatit.org/enter_manuscript.php.

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budi warsito <budiwrst2@gmail.com> 27 Januari 2021 13.54
Kepada: Hasbi Yasin <hasbiyasin17@gmail.com>

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[JATIT] Letter of Acceptance for Submitted Research Paper ID 36632-JATIT

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Journal of Theoretical and Applied Information Technology <editorjatit@gmail.com> 19 Mei 2018 13.14
Kepada: budiwrst2@gmail.com, rukunsantoso25@gmail.com, hasbiyasin17@gmail.com, gmsuhartono@gmail.com

Dear Corresponding Author **Budi Warsito**

We are pleased to inform you that your submission having title **"GRADIENT BASED OPTIMIZATION IN CASCADE FORWARD NEURAL NETWORK MODEL FOR SEASONAL DATA"** and ID: 36632-**JATIT** having author(s): **BUDI WARSITO, RUKUN SANTOSO, HASBI YASIN, SUHARTONO** has been accepted for publication in **JOURNAL OF THEORETICAL AND APPLIED INFORMATION TECHNOLOGY** (E-ISSN **1817-3195** / ISSN **1992-8645**). The acceptance decision was based on the reviewers' evaluation after double blind peer review and chief editor's approval.**[Attached with this acceptance intimation]**

You shall submit OA processing fee ($450) via credit card/paypal transaction through our online payment system (Use any valid credit card of Yourself / Friend / Family etc) . Please submit the dues via UK based secure payment system at

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so that your paper may get published in upcoming issues. (please forward us with the receipt / order number generated after the completed payment process so that we can easily track your payment). The billing info that appears on your cc statement shall have a reference of JATIT. (Any Authentic Credit Card of Yourself / Friend / Family etc can be legitimately used).

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We shall encourage more quality submissions from you and your colleagues in future.

Please do acknowledge receipt of this notification

Regards,

Shahbaz Ghayyur PhD
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Evaluation Form

Journal of Theoretical and Applied Information Technology
JATIT

Article ID:	**35250- JATIT**
Title:	GRADIENT BASED OPTIMIZATION IN CASCADE FORWARD NEURAL NETWORK MODEL FOR SEASONAL DATA
Reviewer's Name:	

The enclosed manuscript is under consideration for the above-mentioned journal. Please provide comment on the following criteria. Please be advised that you should provide comments within a month of receiving the manuscript. Reviews should be returned to editorJATIT@gmail.com / editor@JATIT.org as an attached file.

Mark (X) where appropriate	YES	NO
Does the title accurately reflect the content?	X	
Is the abstract sufficiently concise and informative?	X	
Do the keywords provide adequate index entries for this paper?	X	
Is the purpose of the paper clearly stated in the introduction?	X	
Does the paper achieve its declared purpose?	X	
Does the paper show clarity of presentation?	X	
Do the figures and tables aid the clarity of the paper?	X	
Are the English and syntax of the paper satisfactory?	X	
Is the paper concise? (If not, please indicate which parts might be cut?)	X	
Does the paper develop a logical argument or a theme?	X	
Do the conclusions sensibly follow from the work that is reported?	X	

Are the references authoritative and representative?	X	
Is the paper interesting or relevant for an international audience?	X	
Is there valuable connection to previously published research in this area?	X	
Is the overall quality suitable for inclusion in this journal?	X	

Recommendations: Mark where appropriate.

Publishable. Accept without correction or minor corrections	
Publishable, however accept subject to changes.	X
Reject due to changes but encourage resubmitting.	
Reject due to unpublished material.	

Additional Comments:

1. What is the motivation of this work and how it derives the research objectives?

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3. Compare your solution to literature for pros and cons. Focus on new knowledge creation and research contribution in results discussions. Author should add a section of difference from prior work after results discussion for justification of novelty and significance of this work.

Note From Handling Editor: Make corrections as per comments. You have a 32 page limit in journal format so space is no issue here. Minimum publication requirement is 11+ pages in journal format. Update with technical text where appropriate.

Evaluation Form

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Journal of Theoretical and Applied Information Technology

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Mark where appropriate	YES	NO
Is it a research or review paper?	X	
Is it within to the scope of the journal?	X	
Is it a full paper submission?	X	
Is the language of paper English? (up to 5% relaxation*)	X	
Will the paper be of interest to Journal readership?	X	
Has the paper or part of it already been published elsewhere? [Based on Google Search on Tile And Abstract]		X

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Rejected After Internal Review	
Accepted After Initial Review and Recommended for Detaied Technical Review	X

*Relaxation is only in special case where use of any other language is curtail to work presented (Either in tables/ figures or text)

Gmail **budi warsito <budiwrst2@gmail.com>**

REVISED 36632-JATIT

2 pesan

budi warsito <budiwrst2@gmail.com> 3 Agustus 2018 17.56
Kepada: editorjatit@gmail.com, mailjait@gmail.com
Cc: editor@jatit.org

Dear Editor of JATIT,

Please find my revised manuscript with the entitled "GRADIENT-BASED-OPTIMIZATION-IN-CASCADE-FORWARD-NEURAL-NETWORK-MODEL-FOR-SEASONAL"
and the ID 36632-JATIT attached in this email.

Best regards,

Budi Warsito

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Reply TO REVIEWER COMMENTS AND CHANGE LOG

Note: Indicate the updates of changes in the manuscript in red colour font so that changes/updates are easy to track.

S.No	Comment	Reply to Comment / Change Description	Page No.
1)	What is the motivation of this work and how it derives the research objectives?	Comparison of the effectiveness of each method was observed by repeating the same procedure in the same case. The statistics of mean and variance were used to made the conclusion about the most effective one. This is the main motivation of the research objectives undertaken. In many previous studies, the gradient-based optimization methods have been applied to neural networks with the type of FFNN. In this research, the Cascade Forward Neural Network (CFNN) architecture was chosen. The existence of a direct relationship between input and output, in addition to the indirect relationship through the hidden layer, becomes the basis for the selection of this architecture.	2
2)	Literature critique is not convincing for need of this work. Gaps or grey areas present in the articles from where the need of work arises are not critiqued	In this research, the number of hidden unit used is varies from 1 to 10 and each experiment resulting a vary optimal number. It appropriate with Zhang [31] that use the number of hidden nodes varies from 2 to 14 with an increment of 2. The simulation also given the erratic result. Therefore, Zhang [31] stated that the number of input nodes or the lagged observations used in the neural networks is often a more important factor than the number of hidden nodes. Related to the input, Zhang and Qi [6] stated that neural network has a limited capacity to deal with seasonality in time series, its clearly indicate that neural network are not	8-9
3)	Compare your solution to literature for pros and cons. Focus on new knowledge creation and research contribution in results discussions. Author should add a section of difference from prior work after results discussion for justification of novelty and significance of this work		

		able to model seasonality directly. Neural network with both detrending and deseasonalize are able to significantly outperform seasonal models in out-of-sample forecasting. Optimization method used in the experiment was Levenberg Marquardt. In this research, we have not done decomposition of data based on its components, either trend or seasonality, but the resulting prediction of CFNN, the other class of neural network, has been good enough. It is also interesting to do comparative studies with the separation of its components first. Correspondingly, Curry [12] as the advanced of Zhang and Qi [6], stated that the longer our time series becomes, the more we move to the limits of the 'universal approximation' property. Multiplicative models combining a time trend and a set of seasonal dummies can be regarded as linear combinations of sinusoidal functions with typical terms t cos(t) and t sin(t), but it still need some theoretical foundation to be established, with a view to supporting empirical studies. As in Zhang and Qi [6], the optimization method used in this research was Levenberg Marquardt, the default of the routine MATLAB toolbox. Curry [12] needs 120 hidden units of FFNN for getting better result, but in the case the network still struggles after a certain point. The interesting result of Curry [12] is that the errors enter towards the end of the series rather than at the beginning. It similar with the result of this research, although with smaller architecture. We can state that generally, there is no guarantee that the bigger architecture gives the better result. However, the comparison	

		between FFNN and CFNN still cannot be concluded and requires a more in-depth study. In Hedayat [17], the gradient descent method with momentum weight/bias learning rule has been used to train CFNN. The determination of minimum number of necessary hidden units is completely practical. Presently, the best method is making an educated guess. Main criteria selected to adjust the optimal architecture and the training set parameters are the necessary epochs which are needed to reach a desirable mean squared error for learning process, and also average and maximum relative errors for testing data gained after stopping criteria are reached. The simulation studied show that network training with a larger number of hidden units takes more time. Training and testing by a wide variety of learning rates of the gradient descent method to qualify the parameters of the considered CFNN is needed. In Narad [18], the Levenberg Marquardt has been used for optimizing CFNN but applied in other field and type of data. Similar with this research, fast convergence with a few epochs and time were needed for getting the optimal weights.	
4)			
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Best regards,

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Dear Author

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The paper shall appear in upcoming Vol 96 October 2018 Issues of JATIT as per current slot allocation.

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