Gmail budi warsito <budiwrst2@gmail.com>

[TELKOMNIKA] Paper 1570670135 has been registered

1 pesan

telkomnika@uad.ac.id <telkomnika=uad.ac.id@edas.info> 15 Agustus 2020 pukul 15.10
Balas Ke: telkomnika@uad.ac.id
Kepada: Budi Warsito <budiwrst2@gmail.com>

Dear Dr. Budi Warsito:

Thank you for registering your paper 1570670135 ('Metaheuristic Optimization in Neural Network Model for Seasonal Data') to TELKOMNIKA Telecommunication Computing Electronics and Control. You still have to upload your manuscript at https://edas.info/uploadPaper.php?m=1570670135.

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.Regards,
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Editor-in-Chief,
TELKOMNIKA (Telecommunication, Computing, Electronics and Control)
website: http://journal.uad.ac.id/index.php/TELKOMNIKA
email: telkomnika@uad.ac.id

Submit paper: https://edas.info/N27504

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

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telkomnika@uad.ac.id <telkomnika=uad.ac.id@edas.info> 15 Agustus 2020 pukul 15.25
Balas Ke: telkomnika@uad.ac.id
Kepada: Budi Warsito <budiwrst2@gmail.com>, Rukun Santoso <rukunsantoso25@gmail.com>, Hasbi Yasin <hasbiyasin17@gmail.com>

Dear Dr. Budi Warsito:

Thank you for uploading your paper 1570670135 (*Metaheuristic Optimization in Neural Network Model for Seasonal Data*) to **TELKOMNIKA Telecommunication Computing Electronics and Control**. The paper is of type application/vnd.openxmlformats-officedocument.wordprocessingml.document and has a length of 417843 bytes.

You can modify your paper at https://edas.info/showPaper.php?m=1570670135 and see all your submissions at https://edas.info/index.php?c=27504 using the EDAS identifier budiwrst2@gmail.com

Regards,
Assoc. Prof. Dr. Tole Sutikno
Editor-in-Chief,
TELKOMNIKA (Telecommunication, Computing, Electronics and Control)
website: http://journal.uad.ac.id/index.php/TELKOMNIKA
email: telkomnika@uad.ac.id

Submit paper: https://edas.info/N27504

Gmail budi warsito <budiwrst2@gmail.com>

First screening #1570670135, entitled: Metaheuristic Optimization in Neural Network Model for Seasonal Data

1 pesan

telkomnika@uad.ac.id <telkomnika=uad.ac.id@edas.info> 19 Agustus 2020 pukul 17.44
Balas Ke: telkomnika@uad.ac.id
Kepada: Budi Warsito <budiwrst2@gmail.com>, Rukun Santoso <rukunsantoso25@gmail.com>, Hasbi Yasin <hasbiyasin17@gmail.com>

-- TELKOMNIKA Journal for writing format and style
-- https://iaescore.com/gfa/telkomnika.docx

Dear Dr. Budi Warsito,

We have reached an initial screening phase regarding your paper submission #1570670135 entitled Metaheuristic Optimization in Neural Network Model for Seasonal Data to TELKOMNIKA Telecommunication Computing Electronics and Control. The TELKOMNIKA has been indexed by SCOPUS/ScimagoJR, SJR Q2 (https://www.scopus.com/sourceid/21100256101) and accredited First Grade "SINTA 1" by Ministry of Research and Technology/National Agency for Research and Innovation, Republic of Indonesia (http://sinta.ristekbrin.go.id/journals/detail?id=664).

Our decision is: Revisions Required before review process
A high quality paper should has:
(1) a clear statement of the problem the paper is addressing;
(2) the proposed solution(s); and
(3) results achieved. It describes clearly what has been done before on the problem, and what is NEW.

The goal of your first revision is to describe NOVEL technical results.
Please note that there are four (4) types of technical results:
(1) An algorithm;
(2) A system construct: such as hardware design, software system, protocol, etc.;
(3) A performance evaluation: obtained through analyses, simulation or measurements;
(4) A theory: consisting of a collection of theorems.

Your revisions should focus on:
(1) Describing the results in sufficient details to establish their validity;
(2) Identifying the novel aspects of the results, i.e., what new knowledge is reported and what makes it non-obvious;
(3) Identifying the significance of the results: what improvements and impact do they suggest.

The main goal of this stage is to ensure that the next person who designs a system like yours doesn't make the same mistakes and takes advantage of some of your best solutions. So make sure that the hard problems (and their solutions) are discussed and the non-obvious mistakes (and how to avoid them) are discussed.

Original/Research paper should be presented with IMRaD style/model:
1. Introduction
2. The Proposed Method/Algorithm/Procedure specifically designed (optional).
Authors may present complex proofs of theorems or non-obvious proofs of correctness of algorithms after introduction section (obvious theorems & straightforward proofs of existing theorems are NOT needed).
3. Research Method
4. Results and Discussion
5. Conclusion.

We will usually expect a minimum of 25 to 30 references primarily to journal papers, depending on the length of the paper. You can found our published papers to enrich your references at:
- http://beei.org
- http://ijece.iaescore.com
- http://ijeecs.iaescore.com
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to improve your paper.

Please do serious work for updating your paper, and submit your updated paper within 14 days (upload as new "REVIEW MANUSCRIPT", in the same EDAS ID number, not as new submission) through EDAS online system. When your UPDATED paper reached us, it will be assigned for single blind peer review by at least three (3) reviewers who will either be members of the Editorial Board or others of similar standing in the field, for contribution, originality, relevance, and presentation. Then, your paper will be judged for final decision of acceptance or rejection.

We look forward to receiving the updated version of your manuscript and are delighted that you chose to send this important work to this journal.

Best Regards,
Assoc. Prof. Dr. Tole Sutikno, Ph.D.
Editor-in-Chief, TELKOMNIKA Telecommunication Computing Electronics and Control
ISSN: 1693-6930, e-ISSN: 2302-9293
email: telkomnika@uad.ac.id

Gmail budi warsito <budiwrst2@gmail.com>

[TELKOMNIKA] Decision for paper 'Metaheuristic Optimization in Neural Network Model for Seasonal Data'

1 pesan

telkomnika@uad.ac.id <telkomnika=uad.ac.id@edas.info> 30 Agustus 2020 pukul 01.22
Balas Ke: telkomnika@uad.ac.id
Kepada: Budi Warsito <budiwrst2@gmail.com>, Rukun Santoso <rukunsantoso25@gmail.com>, Hasbi Yasin <hasbiyasin17@gmail.com>

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-- Please upload the revised paper within 8 weeks
-- Similarity score of your final manuscript must be less than 25%
-- by iThenticate or Turnitin software
==========

Dear Dr. Budi Warsito,

After careful review, your paper #1570670135 "Metaheuristic Optimization in Neural Network Model for Seasonal Data" for TELKOMNIKA Telecommunication Computing Electronics and Control requires MAJOR REVISIONS. You are asked to submit a revised full manuscript, according to the comment from reviewers. The Technical Program Committee (TPC) will check whether the revision already address the reviewers' comments. Failing to do proper revision may lead to the rejection of your paper.

For your information, TELKOMNIKA ISSN: 1693-6930, e-ISSN: 2302-9293 (http://journal.uad.ac.id/index.php/TELKOMNIKA) is open to submission from scholars and experts in the wide areas of electrical, electronics, instrumentation, control, robotics, telecommunication, computer engineering, computer science, information system, information technology and informatics from the global world. The aim of this journal is to publish high-quality articles dedicated to all aspects of the latest outstanding developments in the field of electrical engineering. Its scope encompasses the applications of Telecommunication and Information Technology, Applied Computing and Computer, Instrumentation and Control, Electrical (Power), and Electronics Engineering. It was first published in 2003. Beginning with issue 1 of volume 16 (2018), TELKOMNIKA will be published as a bimonthly journal (6 issues/year). The journal registered in the CrossRef system with Digital Object Identifier (DOI) prefix 10.12928. The Journal has been indexed by SCOPUS, Google Scholar, Scholar Metrics etc; accredited 'A' Grade by DGHE (Ministry of Research, Technology and Higher Education, Republic of Indonesia); registered BASE - Bielefeld Academic Search Engine and CORE KMi, etc. The Journal also have a license agreement with ProQuest LLC and EBSCO Publishing.

The reviews are below or can be found at https://edas.info/showPaper.php?m=1570670135, using your EDAS login name budiwrst2@gmail.com.

Please upload the revised paper using EDAS on the "Revision" upload button within 8 weeks.

Thank you for your cooperation.

Best Regards,
Assoc. Prof. Dr. Tole Sutikno
Editor-in-Chief,
TELKOMNIKA (Telecommunication, Computing, Electronics and Control)
website: http://journal.uad.ac.id/index.php/TELKOMNIKA
email: telkomnika@uad.ac.id

Submit paper: https://edas.info/N27504

Below is the reviews on your papers:
======= Review 1 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?

Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

The paper covers a very important issue generally to focus on the metaheuristic optimization in neural network model for seasonal data.
Results have revealed that the genetics algorithm and particle swarm optimization were recommended as optiization methods at FFNN model.
However, in order to improve the quality of this article, Authors should present the convergence graph of the algorithms used in order to show their effectiveness of the performance due to increasing number of iteration.

> *** Recommendation: Your overall rating.
Accept (9)

======= Review 2 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

- The paper: ‘Metaheuristic Optimization in Neural Network Model for Seasonal Data’ presents a neural network modelling optimization for the rainfall data.
- All the abbreviations and mathematical parameters must be first defined.
- The phrase: ‘The formula is inspired by the search mechanism of the Particle Swarm Optimization (PSO) algorithm and is used to improve the level of convergence of the PSO algorithm. In addition, the solution probability formula was also changed to:’ must have the same
text characters.
- Probably, the problem of detecting data with extreme values may be solved in the future by using ‘data normalization’

> *** Recommendation: Your overall rating.
Accept (9)

======= Revision review 3 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

The Authors have shown a well presented work in abstract and introduction sections. The methodology of this paper need to be more clarified as they have used more than one technique. Moreover, the results section need to highlight the results of using hybrid combination of the three mentioned optimizations methods to show a better results outcome.
The conclusion is clear and showed an acceptable level of contribution.

> *** Recommendation: Your overall rating.
Accept (9)

======= Revision review 4 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Weak Accept (7)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Weak Accept (7)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

1. in the equation 1, the author(s) mention that fo is the activation function in output layer, and f is the activation function in output layer, what is the difference. really there is no f in all equations. also, you have either mention to the reference of equations or proof them.
2. what type of data used in experiment, what is your goal (predict what?).
3. it is recommend to add related works (algorithms of other papers).
4. it is recommend to compare the results with other works.
5. compare the modified and classical Bee colony and proof that the modified is efficient in your proposal.

> *** Recommendation: Your overall rating.
Weak Accept (7)

======= Revision review 5 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

This paper presented three optimization methods i.e Genetic Algorithm, Particle Swarm Optimization and Modified Bee Colony for the modeling of Feed Forward Neural Network (FFNN) and was applied to the rainfall data. The experimental study showed that Genetic Algorithm and Particle Swarm Optimization were recommended as optimization methods at FFNN model for the rainfall data.

The technical presentation of this paper is quite good, however it can be further improved as follow:

1) In the Abstract, please define FFNN first before used in the sentence.

2) Typo: The Rule of Thumb. Not thomb!

3) Please explain the parameter for each method in different section. Please revise the whole paragraph:

"We used the ten-daily of rainfall from ZOM 138 Bawak Klaten Central Java from January 2010 until July 2018 with the length of 309. This data was taken from Meteorology, Climatology and Geophysics Agency. The network input are three variables i.e. lags 1, 2 and 18. The one until six hidden units are built first, i.e. FFNN(1,2,18;1) - FFNN(1,2,18;6). Logistic sigmoid and linear are the activation functions used in hidden layer and output layer, respectively. The specification of genetic algorithm used to estimate weights are: population size = 20, probability of crossover pc = 0.7, probability of mutation pm = 0.1 and the number of generations = 10000. Selection of the parents couple is using roulette wheel selection method. In the PSOs, the maximum number of iterations was 500, and the population size (swarm size) was 10. The PSO parameters are determined as follows: Inertia Weight = 1, Inertia Weight Damping Ratio = 0.99, Personal Learning Coefficient c1 = 1.5, and Global Learning Coefficient c2 = 2.0. Whereas, in modified Bee Colony optimization the ρ is taken equal to 2.5. The brief description of each part is discussed in the next session."

4) Please explain how you divide the data into training and testing? Common practice use splitting data into 80:20 or cross validation method.

5) Conclusion can be further elaborated. Please discuss future work.

> *** Recommendation: Your overall rating.
Accept (9)

We would like your cooperation with the double check of your revised paper:
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(1) TEMPLATE, Please Strictly use and follow to the template Manuscripts (Word Format): http://iaescore.com/gfa/telkomnika.docx

(2) Authors are suggested to present their articles with IMRaD sections structure (outline): Introduction - The Proposed Method/Algorithm/Procedure specifically designed (optional) - Research Method - Results and Discussion – Conclusion. Authors may present complex proofs of theorems or non-obvious proofs of correctness of algorithms after introduction section (obvious theorems & straightforward proofs of existing theorems are NOT needed).

(3) Introduction section: explain the context of the study and state the precise objective. An Introduction should contain the following three parts:
- Background: Authors have to make clear what the context is. Ideally, authors should give an idea of the state-of-the art of the field the report is about.
- The Problem: If there was no problem, there would be no reason for writing a manuscript, and definitely no reason for reading it. So, please tell readers why they should proceed reading. Experience shows that for this part a few lines are often sufficient.
- The Proposed Solution: Now and only now! - authors may outline the contribution of the manuscript. Here authors have to make sure readers point out what are the novel aspects of authors work.
Authors should place the paper in proper context by citing relevant papers. At least, 15 references (recently journal articles) are referred in this section.

(4) Method section: the presentation of the experimental methods should be clear and complete in every detail facilitating reproducibility by other scientists.

(5) Results and discussion section: The presentation of results should be simple and straightforward in style. This section report the most important findings, including results of statistical analyses as appropriate and comparisons to other research results. Results given in figures should not be repeated in tables. This is where the author(s) should explain in words what he/she/they discovered in the research. It should be clearly laid out and in a logical sequence. This section should be supported suitable references.

(6) (URGENT)!!! About Figures & Tables in your manuscript:
- Because tables and figures supplement the text, all tables and figures should be REFERENCED in the text. Authors MUST EXPLAIN what the reader should look for when using the table or figure. Focus only on the important point the reader should draw from them, and leave the details for the reader to examine on her own.
- Tables are to be presented with single horizontal line under: the table caption, the column headings and at the end of the table. All tables are produced by creating tables in MS Word. Captured tables are NOT allowed.
- All figures MUST in high quality images

(7) Conclusion section: Summarize sentences the primary outcomes of the study in a paragraph. Are the claims in this section supported by the results, do they seem reasonable? Have the authors indicated how the results relate to expectations and to earlier research? Does the article support or contradict previous theories? Does the conclusion explain how the research has moved the body of scientific knowledge forward?

(8) Most importantly, please ensure the similarity score is less than 25%. You can refer to EDAS to see the similarity score of your paper. Any paper with a similarity score of more than 25% will be dropped. Please make sure your revised paper follow this rule. If the similarity score of final version is more than 25%, the TPC has the right to cancel the paper to be presented at TELKOMNIKA.

(9) Please ensure the maximum page of your final paper is 8-page, but still allowed up to 12 pages (required to pay an extra fee).

Gmail budi warsito <budiwrst2@gmail.com>

[TELKOMNIKA] Decision for paper 'Metaheuristic Optimization in Neural Network Model for Seasonal Data'

1 pesan

telkomnika@uad.ac.id <telkomnika=uad.ac.id@edas.info> 15 September 2020 pukul 07.25
Balas Ke: telkomnika@uad.ac.id
Kepada: Budi Warsito <budiwrst2@gmail.com>, Rukun Santoso <rukunsantoso25@gmail.com>, Hasbi Yasin <hasbiyasin17@gmail.com>

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-- Please upload the revised paper within 8 weeks
-- Similarity score of your manuscript must be less than 25%
-- by iThenticate or Turnitin software
==========

Dear Dr. Budi Warsito,

After careful review, your paper #1570670135 "Metaheuristic Optimization in Neural Network Model for Seasonal Data" for TELKOMNIKA Telecommunication Computing Electronics and Control requires MAJOR REVISIONS. You are asked to submit a revised full manuscript, according to the comment from reviewers. The Technical Program Committee (TPC) will check whether the revision already address the reviewers' comments. Failing to do proper revision may lead to the rejection of your paper.

For your information, TELKOMNIKA ISSN: 1693-6930, e-ISSN: 2302-9293 (http://journal.uad.ac.id/index.php/TELKOMNIKA) is open to submission from scholars and experts in the wide areas of electrical, electronics, instrumentation, control, robotics, telecommunication, computer engineering, computer science, information system, information technology and informatics from the global world. The aim of this journal is to publish high-quality articles dedicated to all aspects of the latest outstanding developments in the field of electrical engineering. Its scope encompasses the applications of Telecommunication and Information Technology, Applied Computing and Computer, Instrumentation and Control, Electrical (Power), and Electronics Engineering. It was first published in 2003. Beginning with issue 1 of volume 16 (2018), TELKOMNIKA will be published as a bimonthly journal (6 issues/year). The journal registered in the CrossRef system with Digital Object Identifier (DOI) prefix 10.12928. The Journal has been indexed by SCOPUS, Google Scholar, Scholar Metrics etc; accredited 'A' Grade by DGHE (Ministry of Research, Technology and Higher Education, Republic of Indonesia); registered BASE - Bielefeld Academic Search Engine and CORE KMi, etc. The Journal also have a license agreement with ProQuest LLC and EBSCO Publishing.

The reviews are below or can be found at https://edas.info/showPaper.php?m=1570670135, using your EDAS login name budiwrst2@gmail.com.

Please upload the revised paper using EDAS on the "Revision" upload button within 8 weeks.

Thank you for your cooperation.

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Below is the reviews on your papers:
======= Review 1 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?

Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

The paper covers a very important issue generally to focus on the metaheuristic optimization in neural network model for seasonal data.
Results have revealed that the genetics algorithm and particle swarm optimization were recommended as optiization methods at FFNN model.
However, in order to improve the quality of this article, Authors should present the convergence graph of the algorithms used in order to show their effectiveness of the performance due to increasing number of iteration.

> *** Recommendation: Your overall rating.
Accept (9)

======= Review 2 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

- The paper: ‘Metaheuristic Optimization in Neural Network Model for Seasonal Data’ presents a neural network modelling optimization for the rainfall data.
- All the abbreviations and mathematical parameters must be first defined.
- The phrase: ‘The formula is inspired by the search mechanism of the Particle Swarm Optimization (PSO) algorithm and is used to improve the level of convergence of the PSO algorithm. In addition, the solution probability formula was also changed to:’ must have the same
text characters.
- Probably, the problem of detecting data with extreme values may be solved in the future by using ‘data normalization’

> *** Recommendation: Your overall rating.
Accept (9)

======= Revision review 3 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

The Authors have shown a well presented work in abstract and introduction sections. The methodology of this paper need to be more clarified as they have used more than one technique. Moreover, the results section need to highlight the results of using hybrid combination of the three mentioned optimizations methods to show a better results outcome.
The conclusion is clear and showed an acceptable level of contribution.

> *** Recommendation: Your overall rating.
Accept (9)

======= Revision review 4 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Weak Reject (3)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Reject (1)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

Paper is poorly analyse in terms of research paper.
Method use is standard, and there is no comparison or justification of the result obtain.

> *** Recommendation: Your overall rating.
Strong Reject (0)

======= Revision review 5 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Weak Accept (7)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Weak Accept (7)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

1. in the equation 1, the author(s) mention that fo is the activation function in output layer, and f is the activation function in output layer, what is the difference. really there is no f in all equations. also, you have either mention to the reference of equations or proof them.
2. what type of data used in experiment, what is your goal (predict what?).
3. it is recommend to add related works (algorithms of other papers).
4. it is recommend to compare the results with other works.
5. compare the modified and classical Bee colony and proof that the modified is efficient in your proposal.

> *** Recommendation: Your overall rating.
Weak Accept (7)

======= Revision review 6 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

This paper presented three optimization methods i.e Genetic Algorithm, Particle Swarm Optimization and Modified Bee Colony for the modeling of Feed Forward Neural Network (FFNN) and was applied to the rainfall data. The experimental study showed that Genetic Algorithm and Particle Swarm Optimization were recommended as optimization methods at FFNN model for the rainfall data.

The technical presentation of this paper is quite good, however it can be further improved as follow:

1) In the Abstract, please define FFNN first before used in the sentence.

2) Typo: The Rule of Thumb. Not thomb!

3) Please explain the parameter for each method in different section. Please revise the whole paragraph:

"We used the ten-daily of rainfall from ZOM 138 Bawak Klaten Central Java from January 2010 until July 2018 with the length of 309. This data was taken from Meteorology, Climatology and Geophysics Agency. The network input are three variables i.e. lags 1, 2 and 18. The one until six hidden units are built first, i.e. FFNN(1,2,18;1) - FFNN(1,2,18;6). Logistic sigmoid and linear are the activation functions used in hidden layer and output layer, respectively. The specification of genetic algorithm used to estimate weights are: population size = 20, probability of crossover pc = 0.7, probability of mutation pm = 0.1 and the number of generations = 10000. Selection of the parents couple is using

roulette wheel selection method. In the PSOs, the maximum number of iterations was 500, and the population size (swarm size) was 10. The PSO parameters are determined as follows: Inertia Weight = 1, Inertia Weight Damping Ratio = 0.99, Personal Learning Coefficient c1 = 1.5, and Global Learning Coefficient c2 = 2.0. Whereas, in modified Bee Colony optimization the ρ is taken equal to 2.5. The brief description of each part is discussed in the next session."

4) Please explain how you divide the data into training and testing? Common practice use splitting data into 80:20 or cross validation method.

5) Conclusion can be further elaborated. Please discuss future work.

> *** Recommendation: Your overall rating.
Accept (9)

EDITOR COMMENTS
We would like your cooperation with the double check of your paper and make sure that :
---
(1) TEMPLATE, Please Strictly use and follow to the template Manuscripts (Word Format): http://iaescore.com/gfa/telkomnika.docx

(2) Authors are suggested to present their articles with IMRaD sections structure (outline): Introduction - The Proposed Method/Algorithm/Procedure specifically designed (optional) - Research Method - Results and Discussion – Conclusion. Authors may present complex proofs of theorems or non-obvious proofs of correctness of algorithms after introduction section (obvious theorems & straightforward proofs of existing theorems are NOT needed).

(3) Introduction section: explain the context of the study and state the precise objective. An Introduction should presented within 3-6 paragraphs and contain/cover the following three (3) parts:
- Background: Authors have to make clear what the context is. Ideally, authors should give an idea of the state-of-the art of the field the report is about.
- The Problem: If there was no problem, there would be no reason for writing a manuscript, and definitely no reason for reading it. So, please tell readers why they should proceed reading. Experience shows that for this part a few lines are often sufficient.
- The Proposed Solution: Now and only now! - authors may outline the contribution of the manuscript. Here authors have to make sure readers point out what are the novel aspects of authors work.
Authors should place the paper in proper context by citing relevant papers. At least, 15 references (recently journal articles) are referred in this section.

(4) Method section: the presentation of the experimental methods should be clear and complete in every detail facilitating reproducibility by other scientists.

(5) Results and discussion section: The presentation of results should be simple and straightforward in style. This section report the most important findings, including results of statistical analyses as appropriate and comparisons to other research results. Results given in figures should not be repeated in tables. This is where the author(s) should explain in words what he/she/they discovered in the research. It should be clearly laid out and in a logical sequence. This section should be supported suitable references.

(6) (URGENT)!!! About Figures & Tables in your manuscript:
- Because tables and figures supplement the text, all tables and figures should be REFERENCED in the text. Authors MUST EXPLAIN what the reader should look for when using the table or figure. Focus only on the important point the reader should draw from them, and leave the details for the reader to examine on her own.
- Tables are to be presented with single horizontal line under: the table caption, the column headings and at the end of the table. All tables are produced by creating tables in MS Word. Captured tables are NOT allowed.
- All figures MUST in high quality images

(7) Conclusion section: Summarize sentences the primary outcomes of the study in a paragraph. Are the claims in this section supported by the results, do they seem reasonable? Have the authors indicated how the results relate to expectations and to earlier research? Does the article support or contradict previous theories? Does the conclusion explain how the research has moved the body of scientific knowledge forward?

(8) Most importantly, please ensure the similarity score is less than 25%. You can refer to EDAS to see the similarity score of your paper. Any paper with a similarity score of more than 25% will be dropped. Please make sure your revised paper follow this rule. If the similarity score of final version is more than 25%, the TPC has the right to cancel the paper to be published at TELKOMNIKA Telecommunication Computing Electronics and Control, a Scopus indexed journal. Please attach also your similarity checking report by iThenticate or Tunitin software.

(9) There are no any grammar and spelling mistakes in your work. There are no texts in not-English (ex: Indonesian/Melayu, Arabic, ...etc) without English description.

(10) Drop all local/inappropriate references and unnecessary Figures and Tables. Tables and figures are an integral part of your paper.

(11) Please ensure the maximum page of your final paper is 8-page, but still allowed up to 12 pages (required to pay an extra fee).

Gmail budi warsito <budiwrst2@gmail.com>

[TELKOMNIKA] Decision for paper 'Metaheuristic Optimization in Neural Network Model for Seasonal Data'

1 pesan

telkomnika@uad.ac.id <telkomnika=uad.ac.id@edas.info> 8 November 2020 pukul 12.21
Balas Ke: telkomnika@uad.ac.id
Kepada: Budi Warsito <budiwrst2@gmail.com>, Rukun Santoso <rukunsantoso25@gmail.com>, Hasbi Yasin <hasbiyasin17@gmail.com>

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Dear Dr. Budi Warsito,

After careful review, your paper #1570670135 "Metaheuristic Optimization in Neural Network Model for Seasonal Data" for TELKOMNIKA Telecommunication Computing Electronics and Control requires MAJOR REVISIONS. You are asked to submit a revised full manuscript, according to the comment from reviewers. The Technical Program Committee (TPC) will check whether the revision already address the reviewers' comments. Failing to do proper revision may lead to the rejection of your paper.

For your information, TELKOMNIKA ISSN: 1693-6930, e-ISSN: 2302-9293 (http://journal.uad.ac.id/index.php/TELKOMNIKA) is open to submission from scholars and experts in the wide areas of electrical, electronics, instrumentation, control, robotics, telecommunication, computer engineering, computer science, information system, information technology and informatics from the global world. The aim of this journal is to publish high-quality articles dedicated to all aspects of the latest outstanding developments in the field of electrical engineering. Its scope encompasses the applications of Telecommunication and Information Technology, Applied Computing and Computer, Instrumentation and Control, Electrical (Power), and Electronics Engineering. It was first published in 2003. Beginning with issue 1 of volume 16 (2018), TELKOMNIKA will be published as a bimonthly journal (6 issues/year). The journal registered in the CrossRef system with Digital Object Identifier (DOI) prefix 10.12928. The Journal has been indexed by SCOPUS, Google Scholar, Scholar Metrics etc; accredited 'A' Grade by DGHE (Ministry of Research, Technology and Higher Education, Republic of Indonesia); registered BASE - Bielefeld Academic Search Engine and CORE KMi, etc. The Journal also have a license agreement with ProQuest LLC and EBSCO Publishing.

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Editor-in-Chief,
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Below is the reviews on your papers:
======= Review 1 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?

Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

The paper covers a very important issue generally to focus on the metaheuristic optimization in neural network model for seasonal data.
Results have revealed that the genetics algorithm and particle swarm optimization were recommended as optiization methods at FFNN model.
However, in order to improve the quality of this article, Authors should present the convergence graph of the algorithms used in order to show their effectiveness of the performance due to increasing number of iteration.

> *** Recommendation: Your overall rating.
Accept (9)

======= Review 2 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

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- The paper: ‘Metaheuristic Optimization in Neural Network Model for Seasonal Data’ presents a neural network modelling optimization for the rainfall data.
- All the abbreviations and mathematical parameters must be first defined.
- The phrase: ‘The formula is inspired by the search mechanism of the Particle Swarm Optimization (PSO) algorithm and is used to improve the level of convergence of the PSO algorithm. In addition, the solution probability formula was also changed to:’ must have the same
text characters.
- Probably, the problem of detecting data with extreme values may be solved in the future by using ‘data normalization’

> *** Recommendation: Your overall rating.
Accept (9)

======= Review 3 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Weak Accept (7)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Weak Accept (7)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

Congratulation on well prepared manuscript. However, the author should provide justification on the different between two set of data as shown in Figure 2 and Figure 3.

> *** Recommendation: Your overall rating.
Weak Accept (7)

======= Review 4 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

Authors have done well in using feed forward neural network. Some other optimization techniques could also be investigated to validate the results.

> *** Recommendation: Your overall rating.
Accept (9)

======= Review 5 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Weak Accept (7)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Weak Accept (7)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

1. Rewrite the Abstract. This section needs a thorough revision (from a linguistic point of view).
2. The conclusion also needs a revision.
3. Expand abbreviations when you are using it for the first time. Although FFNN is expanded in the abstract it is not listed in braces.
4. Mismatch in figure sizes. Figure 2 and 3 should be of the same size.

> *** Recommendation: Your overall rating.
Weak Accept (7)

======= Review 6 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

The paper is well written and it compares 3 methods that calculates the weight of a neural network for a rain fall application. The value of the paper is in the application side rather than advancing the theoretical state-of-the-art.

> *** Recommendation: Your overall rating.
Accept (9)

======= Review 7 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Reject (1)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Weak Reject (3)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

On page 2: "In this research, we tried to find the best optimization between three metaheuristic algorithms including Genetic Algorithm (GA), Particle Swarm Optimization (PSO), and Modified Artificial Bee Colony (MABC). "

The statement is unsuitable. According to No Free Lunch Theorem, no algorithm is better than other algorithms in all cases. The three methods can have different performance only in a particular scenario.

On page 2: "FFNN is also often called Multilayer Perceptron (MLP) because its network architecture consists of several layers. "
The statment is incorrect. It is because each neuron is a perceptron.

On page 3, the last line: "set: k = 0 -> P(0)"
This is hard understood.

On page 4, many symbols are not defined, for example, x_ij.

On page 5, the representation "FFNN(1,2,18;1) - FFNN(1,2,18;6)" needs more explanation.

On page 7, what is AG?

> *** Recommendation: Your overall rating.
Reject (1)

======= Revision review 8 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

The paper is well-written, However, the comparison with the related works is missing. As such,I ask the authors to add a discussion for comparing with others work.

> *** Recommendation: Your overall rating.
Accept (9)

======= Revision review 9 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

The Authors have shown a well presented work in abstract and introduction sections. The methodology of this paper need to be more clarified as they have used more than one technique. Moreover, the results section need to highlight the results of using hybrid combination of the three mentioned optimizations methods to show a better results outcome.
The conclusion is clear and showed an acceptable level of contribution.

> *** Recommendation: Your overall rating.
Accept (9)

======= Revision review 10 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Weak Reject (3)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Reject (1)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper.

Also provide feedback to the authors.

Paper is poorly analyse in terms of research paper.
Method use is standard, and there is no comparison or justification of the result obtain.

> *** Recommendation: Your overall rating.
Strong Reject (0)

======= Revision review 11 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Weak Accept (7)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Weak Accept (7)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

1. in the equation 1, the author(s) mention that fo is the activation function in output layer, and f is the activation function in output layer, what is the difference. really there is no f in all equations. also, you have either mention to the reference of equations or proof them.
2. what type of data used in experiment, what is your goal (predict what?).
3. it is recommend to add related works (algorithms of other papers).
4. it is recommend to compare the results with other works.
5. compare the modified and classical Bee colony and proof that the modified is efficient in your proposal.

> *** Recommendation: Your overall rating.
Weak Accept (7)

======= Revision review 12 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

This paper presented three optimization methods i.e Genetic Algorithm, Particle Swarm Optimization and Modified Bee Colony for the modeling of Feed Forward Neural Network (FFNN) and was applied to the rainfall data. The experimental study showed that Genetic Algorithm and Particle Swarm Optimization were recommended as optimization methods at FFNN model for the rainfall data.

The technical presentation of this paper is quite good, however it can be further improved as follow:

1) In the Abstract, please define FFNN first before used in the sentence.

2) Typo: The Rule of Thumb. Not thomb!

3) Please explain the parameter for each method in different section. Please revise the whole paragraph:

"We used the ten-daily of rainfall from ZOM 138 Bawak Klaten Central Java from January 2010 until July 2018 with the length of 309. This data was taken from Meteorology, Climatology and Geophysics Agency. The network input are three variables i.e. lags 1, 2 and 18. The one until six hidden units are built first, i.e. FFNN(1,2,18;1) - FFNN(1,2,18;6). Logistic sigmoid and linear are the activation functions used in hidden layer and output layer, respectively. The specification of genetic algorithm used to estimate weights are: population size = 20, probability of crossover pc = 0.7, probability of mutation pm = 0.1 and the number of generations = 10000. Selection of the parents couple is using roulette wheel selection method. In the PSOs, the maximum number of iterations was 500, and the population size (swarm size) was 10. The PSO parameters are determined as follows: Inertia Weight = 1, Inertia Weight Damping Ratio = 0.99, Personal Learning Coefficient c1 = 1.5, and Global Learning Coefficient c2 = 2.0. Whereas, in modified Bee Colony optimization the ρ is taken equal to 2.5. The brief description of each part is discussed in the next session."

4) Please explain how you divide the data into training and testing? Common practice use splitting data into 80:20 or cross validation method.

5) Conclusion can be further elaborated. Please discuss future work.

> *** Recommendation: Your overall rating.
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EDITOR COMMENTS
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(3) Introduction section: explain the context of the study and state the precise objective. An Introduction should presented within 3-6 paragraphs and contain/cover the following three (3) parts:
- Background: Authors have to make clear what the context is. Ideally, authors should give an idea of the state-of-the art of the field the report is about.
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- The Proposed Solution: Now and only now! - authors may outline the contribution of the manuscript. Here authors have to make sure readers point out what are the novel aspects of authors work.
Authors should place the paper in proper context by citing relevant papers. At least, 15 references (recently journal articles) are referred in this section.

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(5) Results and discussion section: The presentation of results should be simple and straightforward in style. This section report the most important findings, including results of statistical analyses as appropriate and comparisons to other research results. Results given in figures should not be repeated in tables. This is where the author(s) should explain in words what he/she/they discovered in the research. It should be clearly laid out and in a logical sequence. This section should be supported suitable references.

(6) (URGENT)!!! About Figures & Tables in your manuscript:
- Because tables and figures supplement the text, all tables and figures should be REFERENCED in the text. Authors MUST EXPLAIN what the reader should look for when using the table or figure. Focus only on the important point the reader should draw from them, and leave the details for the reader to examine on her own.
- Tables are to be presented with single horizontal line under: the table caption, the column headings and at the end of the table. All tables are produced by creating tables in MS Word. Captured tables are NOT allowed.
- All figures MUST in high quality images

(7) Number of minimum references for original research paper is 25 references (and minimum 20 recent journal articles). Number of minimum references for review paper is 50 references (and minimum 40 recent journal articles). Each citation should be written in the order of appearance in the text in square brackets. For example, the first citation [1], the second citation [2], and the third and fourth citations [3,4]. When citing multiple sources at once, the preferred method is to list each number separately, in its own brackets, using a comma or dash between numbers, as such: [1], [3], [5] or [4-8]. It is not necessary to mention an author's name, pages used, or date of publication in the in-text citation. Instead, refer to the source with a number in a square bracket, e.g. [9], that will then correspond to the full citation in your reference list. Examples of in-text citations:
This theory was first put forward in 1970 [9]."
Sutikno [10] has argued that...
Several recent studies [7], [9], [11-15] have suggested that....
...end of the line for my research [16].

(8) Conclusion section: Summarize sentences the primary outcomes of the study in a paragraph. Are the claims in this section supported by the results, do they seem reasonable? Have the authors indicated how the results relate to expectations and to earlier research? Does the article support or contradict previous theories? Does the conclusion

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(12) Please ensure the maximum page of your final paper is 8-page, but still allowed up to 12 pages (required to pay an extra fee).

Gmail budi warsito <budiwrst2@gmail.com>

[TELKOMNIKA] Your paper #1570670135 ('Metaheuristic Optimization in Neural Network Model for Seasonal Data')

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Kepada: Budi Warsito <budiwrst2@gmail.com>, Rukun Santoso <rukunsantoso25@gmail.com>, Hasbi Yasin <hasbiyasin17@gmail.com>

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-- Number of minimum references for review paper is 50 references (and minimum 40 recent journal articles).
-- Similarity score of your final manuscript must be less than 25%
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Dear Dr. Budi Warsito,

Congratulations - your paper #1570670135 ('Metaheuristic Optimization in Neural Network Model for Seasonal Data') for the TELKOMNIKA Telecommunication Computing Electronics and Control has been ACCEPTED with minor revisions. The TELKOMNIKA ISSN: 1693-6930, e-ISSN: 2302-9293 (http://journal.uad.ac.id/index.php/TELKOMNIKA) is open to submission from scholars and experts in the wide areas of electrical, electronics, instrumentation, control, robotics, telecommunication, computer engineering, computer science, information system, information technology and informatics from the global world. The aim of this journal is to publish high-quality articles dedicated to all aspects of the latest outstanding developments in the field of electrical engineering. Its scope encompasses the applications of Telecommunication and Information Technology, Applied Computing and Computer, Instrumentation and Control, Electrical (Power), and Electronics Engineering. It was first published in 2003. Beginning with issue 1 of volume 16 (2018), TELKOMNIKA will be published as a bimonthly journal (6 issues/year). The journal registered in the CrossRef system with Digital Object Identifier (DOI) prefix 10.12928. The Journal has been indexed by SCOPUS, Google Scholar, Scholar Metrics etc; accredited 'A' Grade by DGHE (Ministry of Research, Technology and Higher Education, Republic of Indonesia); registered BASE - Bielefeld Academic Search Engine and CORE KMi, etc. The Journal also have a license agreement with ProQuest LLC and EBSCO Publishing.

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For original research paper, there are four (4) types of novel technical results: 1) An algorithm; 2) A system construct: such as hardware design, software system, protocol, etc.; The main goal of your revised paper is to ensure that the next person who designs a system like yours doesn't make the same mistakes and takes advantage of some of your best solutions. So make sure that the hard problems (and their solutions) are discussed and the non-obvious mistakes (and how to avoid them) are discussed; 3) A performance evaluation: obtained through analyses, simulation or measurements; or 4) A theory: consisting of a collection of theorems. Your final camera ready paper should focus on: 1) Describing the results in sufficient details to establish their validity; 2) Identifying the novel aspects of the results, i.e., what new knowledge is reported and what makes it non-obvious; and 3) Identifying the significance of the results: what improvements and impact do they suggest. Number of minimum references for original research paper is 25 references (and minimum 20 recently journal articles).

For review paper, the paper should present a critical, constructive analysis of the literature in a specific field through summary, classification, analysis and comparison. The function and goal of the review paper is: 1) to organize literature; 2) to evaluate literature; 3) to identify patterns and trends in the literature; 4) to synthesize literature; or 5) to identify research gaps and recommend new research areas. The structure includes:
1. Title – in this case does not indicate that it is a review article.
2. Abstract – includes a description of subjects covered.
3. Introduction includes a description of context (paragraph 1 – 3), motivation for review (paragraph 4, sentence 1) and defines the focus (paragraph 4, sentences 2 – 3)
4. Body – structured by headings and subheadings
5. Conclusion – states the implications of the findings and an identifies possible new research fields
6. References ("Literature Review") – organised by number in the order they were cited in the text.
Number of minimum references for review paper is 50 references (and minimum 40 recently journal articles).

For your information, according to international regulations, similarity score of camera-ready paper should be less than 25%. Single author is NOT allowed. The Editor(s) will check whether the final version has been performed and already address the reviewers' comments or not. Failing to do proper revision may lead to the rejection of your paper.

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I look forward for your response

Sincerely yours,
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Below is the reviews on your papers:
======= Review 1 =======

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Accept (9)

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Accept (9)

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Accept (9)

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Accept (9)

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Weak Accept (7)

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Weak Accept (7)

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Weak Accept (7)

======= Review 4 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

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> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

Authors have done well in using feed forward neural network. Some other optimization techniques could also be investigated to validate the results.

> *** Recommendation: Your overall rating.
Accept (9)

======= Review 5 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Weak Accept (7)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Weak Accept (7)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

1. Rewrite the Abstract. This section needs a thorough revision (from a linguistic point of view).
2. The conclusion also needs a revision.
3. Expand abbreviations when you are using it for the first time. Although FFNN is expanded in the abstract it is not listed in braces.
4. Mismatch in figure sizes. Figure 2 and 3 should be of the same size.

> *** Recommendation: Your overall rating.
Weak Accept (7)

======= Review 6 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables,

formats, etc.)?
Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

The paper is well written and it compares 3 methods that calculates the weight of a neural network for a rain fall application. The value of the paper is in the application side rather than advancing the theoretical state-of-the-art.

> *** Recommendation: Your overall rating.
Accept (9)

======= Review 7 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Reject (1)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Weak Reject (3)

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On page 2: "In this research, we tried to find the best optimization between three metaheuristic algorithms including Genetic Algorithm (GA), Particle Swarm Optimization (PSO), and Modified Artificial Bee Colony (MABC). "

The statement is unsuitable. According to No Free Lunch Theorem, no algorithm is better than other algorithms in all cases. The three methods can have different performance only in a particular scenario.

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On page 7, what is AG?

> *** Recommendation: Your overall rating.
Reject (1)

======= Revision review 8 =======

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Accept (9)

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Accept (9)

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The paper is well-written, However, the comparison with the related works is missing. As such,I ask the authors to add a discussion for comparing with others work.

> *** Recommendation: Your overall rating.
Accept (9)

======= Revision review 9 =======

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Accept (9)

======= Revision review 10 =======

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Weak Reject (3)

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Reject (1)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

Paper is poorly analyse in terms of research paper.
Method use is standard, and there is no comparison or justification of the result obtain.

> *** Recommendation: Your overall rating.
Strong Reject (0)

======= Revision review 11 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Weak Accept (7)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Weak Accept (7)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

1. in the equation 1, the author(s) mention that fo is the activation function in output layer, and f is the activation function in output layer, what is the difference. really there is no f in all equations. also, you have either mention to the reference of equations or proof them.
2. what type of data used in experiment, what is your goal (predict what?).
3. it is recommend to add related works (algorithms of other papers).
4. it is recommend to compare the results with other works.
5. compare the modified and classical Bee colony and proof that the modified is efficient in your proposal.

> *** Recommendation: Your overall rating.
Weak Accept (7)

======= Revision review 12 =======

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Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables,

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Accept (9)

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This paper presented three optimization methods i.e Genetic Algorithm, Particle Swarm Optimization and Modified Bee Colony for the modeling of Feed Forward Neural Network (FFNN) and was applied to the rainfall data. The experimental study showed that Genetic Algorithm and Particle Swarm Optimization were recommended as optimization methods at FFNN model for the rainfall data.

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1) In the Abstract, please define FFNN first before used in the sentence.

2) Typo: The Rule of Thumb. Not thomb!

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"We used the ten-daily of rainfall from ZOM 138 Bawak Klaten Central Java from January 2010 until July 2018 with the length of 309. This data was taken from Meteorology, Climatology and Geophysics Agency. The network input are three variables i.e. lags 1, 2 and 18. The one until six hidden units are built first, i.e. FFNN(1,2,18;1) - FFNN(1,2,18;6). Logistic sigmoid and linear are the activation functions used in hidden layer and output layer, respectively. The specification of genetic algorithm used to estimate weights are: population size = 20, probability of crossover pc = 0.7, probability of mutation pm = 0.1 and the number of generations = 10000. Selection of the parents couple is using roulette wheel selection method. In the PSOs, the maximum number of iterations was 500, and the population size (swarm size) was 10. The PSO parameters are determined as follows: Inertia Weight = 1, Inertia Weight Damping Ratio = 0.99, Personal Learning Coefficient c1 = 1.5, and Global Learning Coefficient c2 = 2.0. Whereas, in modified Bee Colony optimization the ρ is taken equal to 2.5. The brief description of each part is discussed in the next session."

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5) Conclusion can be further elaborated. Please discuss future work.

> *** Recommendation: Your overall rating.
Accept (9)

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(3) Introduction section: explain the context of the study and state the precise objective. An Introduction should contain the following three (3) elements:
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- The Problem: If there was no problem, there would be no reason for writing a manuscript, and definitely no reason for reading it. So, please tell readers why they should proceed reading. Experience shows that for this part a few lines are often sufficient.
- The Proposed Solution: Now and only now! - authors may outline the contribution of the manuscript. Here authors have to make sure readers point out what are the novel aspects of authors work. Authors should place the paper in proper context by citing relevant papers. At least, 5 references (recently journal articles) are cited to support this section.

(4) Method section: the presentation of the experimental methods should be clear and complete in every detail facilitating reproducibility by other scientists.

(5) Results and discussion section: The presentation of results should be simple and straightforward in style. This section report the most important findings, including results of statistical analyses as appropriate and comparisons to

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- Tables are to be presented with single horizontal line under: the table caption, the column headings and at the end of the table. All tables are produced by creating tables in MS Word. Captured tables are NOT allowed.
- All figures MUST in high quality images

(7) Conclusion section: Summarize sentences the primary outcomes of the study in a paragraph. Are the claims in this section supported by the results, do they seem reasonable? Have the authors indicated how the results relate to expectations and to earlier research? Does the article support or contradict previous theories? Does the conclusion explain how the research has moved the body of scientific knowledge forward?

(8) Please ensure the maximum page of your final paper is 8-page, but still allowed up to 12 pages (required to pay an extra fee).

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[TELKOMNIKA] Your paper #1570670135 ('Metaheuristic Optimization in Neural Network Model for Seasonal Data')

1 pesan

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Dear Dr. Budi Warsito,

Congratulations - your paper #1570670135 ('Metaheuristic Optimization in Neural Network Model for Seasonal Data') for the TELKOMNIKA Telecommunication Computing Electronics and Control has been ACCEPTED with minor revisions. The TELKOMNIKA ISSN: 1693-6930, e-ISSN: 2302-9293 (http://journal.uad.ac.id/index.php/TELKOMNIKA) is open to submission from scholars and experts in the wide areas of electrical, electronics, instrumentation, control, robotics, telecommunication, computer engineering, computer science, information system, information technology and informatics from the global world. The aim of this journal is to publish high-quality articles dedicated to all aspects of the latest outstanding developments in the field of electrical engineering. Its scope encompasses the applications of Telecommunication and Information Technology, Applied Computing and Computer, Instrumentation and Control, Electrical (Power), and Electronics Engineering. It was first published in 2003. Beginning with issue 1 of volume 16 (2018), TELKOMNIKA will be published as a bimonthly journal (6 issues/year). The journal registered in the CrossRef system with Digital Object Identifier (DOI) prefix 10.12928. The Journal has been indexed by SCOPUS, Google Scholar, Scholar Metrics etc; accredited 'A' Grade by DGHE (Ministry of Research, Technology and Higher Education, Republic of Indonesia); registered BASE - Bielefeld Academic Search Engine and CORE KMi, etc. The Journal also have a license agreement with ProQuest LLC and EBSCO Publishing.

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2. Abstract – includes a description of subjects covered.
3. Introduction includes a description of context (paragraph 1 – 3), motivation for review (paragraph 4, sentence 1) and defines the focus (paragraph 4, sentences 2 – 3)
4. Body – structured by headings and subheadings
5. Conclusion – states the implications of the findings and an identifies possible new research fields
6. References ("Literature Review") – organised by number in the order they were cited in the text.
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======= Review 1 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

The paper covers a very important issue generally to focus on the metaheuristic optimization in neural network model for seasonal data.
Results have revealed that the genetics algorithm and particle swarm optimization were recommended as optiization methods at FFNN model.
However, in order to improve the quality of this article, Authors should present the convergence graph of the algorithms used in order to show their effectiveness of the performance due to increasing number of iteration.

> *** Recommendation: Your overall rating.
Accept (9)

======= Review 2 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

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Accept (9)

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- The paper: ‘Metaheuristic Optimization in Neural Network Model for Seasonal Data’ presents a neural network modelling optimization for the rainfall data.
- All the abbreviations and mathematical parameters must be first defined.
- The phrase: ‘The formula is inspired by the search mechanism of the Particle Swarm Optimization (PSO) algorithm and is used to improve the level of convergence of the PSO algorithm. In addition, the solution probability formula was also changed to:’ must have the same
text characters.
- Probably, the problem of detecting data with extreme values may be solved in the future by using ‘data normalization’

> *** Recommendation: Your overall rating.

Accept (9)

======= Review 3 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Weak Accept (7)

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Weak Accept (7)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

Congratulation on well prepared manuscript. However, the author should provide justification on the different between two set of data as shown in Figure 2 and Figure 3.

> *** Recommendation: Your overall rating.
Weak Accept (7)

======= Review 4 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

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Weak Accept (7)

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Accept (9)

======= Review 7 =======

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Reject (1)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Weak Reject (3)

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Reject (1)

======= Revision review 8 =======

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Accept (9)

======= Revision review 9 =======

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Accept (9)

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======= Revision review 10 =======

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Weak Reject (3)

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Strong Reject (0)

======= Revision review 11 =======

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Weak Accept (7)

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2. what type of data used in experiment, what is your goal (predict what?).
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4. it is recommend to compare the results with other works.
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Weak Accept (7)

======= Revision review 12 =======

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Accept (9)

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Accept (9)

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- The Problem: If there was no problem, there would be no reason for writing a manuscript, and definitely no reason for reading it. So, please tell readers why they should proceed reading. Experience shows that for this part a few lines are often sufficient.
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- All figures MUST in high quality images

(7) Conclusion section: Summarize sentences the primary outcomes of the study in a paragraph. Are the claims in this section supported by the results, do they seem reasonable? Have the authors indicated how the results relate to expectations and to earlier research? Does the article support or contradict previous theories? Does the conclusion explain how the research has moved the body of scientific knowledge forward?

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Dear Prof/Dr/Mr/Mrs: Budi Warsito, Rukun Santoso and Hasbi Yasin,

Congratulations!! Your paper entitled "Metaheuristic Optimization in Neural Network Model for Seasonal Data", ID# 1570670135, authors: Budi Warsito, Rukun Santoso and Hasbi Yasin for TELKOMNIKA Telecommunication Computing Electronics and Control has been ACCEPTED and will be published for forthcoming issue. The TELKOMNIKA ISSN: 1693-6930, e-ISSN: 2302-9293 (http://journal.uad.ac.id/index.php/TELKOMNIKA) is open to submission from scholars and experts in the wide areas of electrical, electronics, instrumentation, control, robotics, telecommunication, computer engineering, computer science, information system, information technology and informatics from the global world. The aim of this journal is to publish high-quality articles dedicated to all aspects of the latest outstanding developments in the field of electrical engineering. Its scope encompasses the applications of Telecommunication and Information Technology, Applied Computing and Computer, Instrumentation and Control, Electrical (Power), and Electronics Engineering. It was first published in 2003. Beginning with issue 1 of volume 16 (2018), TELKOMNIKA will be published as a bimonthly journal (6 issues/year). The journal registered in the CrossRef system with Digital Object Identifier (DOI) prefix 10.12928. The Journal has been indexed by SCOPUS, Google Scholar, Scholar Metrics etc; accredited 'A' Grade by DGHE (Ministry of Research, Technology and Higher Education, Republic of Indonesia); registered BASE - Bielefeld Academic Search Engine and CORE KMi, etc. The Journal also have a license agreement with ProQuest LLC and EBSCO Publishing.

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> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Accept (9)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

The paper covers a very important issue generally to focus on the metaheuristic optimization in neural network model for seasonal data.
Results have revealed that the genetics algorithm and particle swarm optimization were recommended as optiization methods at FFNN model.
However, in order to improve the quality of this article, Authors should present the convergence graph of the algorithms used in order to show their effectiveness of the performance due to increasing number of iteration.

> *** Recommendation: Your overall rating.
Accept (9)

======= Review 2 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
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- The paper: ‘Metaheuristic Optimization in Neural Network Model for Seasonal Data’ presents a neural network modelling optimization for the rainfall data.
- All the abbreviations and mathematical parameters must be first defined.
- The phrase: ‘The formula is inspired by the search mechanism of the Particle Swarm Optimization (PSO) algorithm and is used to improve the level of convergence of the PSO algorithm. In addition, the solution probability formula was also changed to:’ must have the same
text characters.
- Probably, the problem of detecting data with extreme values may be solved in the future by using ‘data normalization’

> *** Recommendation: Your overall rating.
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======= Review 3 =======

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Weak Accept (7)

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Weak Accept (7)

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Congratulation on well prepared manuscript. However, the author should provide justification on the different between two set of data as shown in Figure 2 and Figure 3.

> *** Recommendation: Your overall rating.
Weak Accept (7)

======= Review 4 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
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Authors have done well in using feed forward neural network. Some other optimization techniques could also be investigated to validate the results.

> *** Recommendation: Your overall rating.
Accept (9)

======= Review 5 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Weak Accept (7)

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Weak Accept (7)

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1. Rewrite the Abstract. This section needs a thorough revision (from a linguistic point of view).
2. The conclusion also needs a revision.
3. Expand abbreviations when you are using it for the first time. Although FFNN is expanded in the abstract it is not listed in braces.
4. Mismatch in figure sizes. Figure 2 and 3 should be of the same size.

> *** Recommendation: Your overall rating.
Weak Accept (7)

======= Review 6 =======

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The paper is well written and it compares 3 methods that calculates the weight of a neural network for a rain fall application. The value of the paper is in the application side rather than advancing the theoretical state-of-the-art.

> *** Recommendation: Your overall rating.
Accept (9)

======= Review 7 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Reject (1)

> *** Paper Presentation: What is your evaluation on the quality of presentation from this paper (e.g. figures, tables, formats, etc.)?
Weak Reject (3)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

On page 2: "In this research, we tried to find the best optimization between three metaheuristic algorithms including Genetic Algorithm (GA), Particle Swarm Optimization (PSO), and Modified Artificial Bee Colony (MABC). "

The statement is unsuitable. According to No Free Lunch Theorem, no algorithm is better than other algorithms in all cases. The three methods can have different performance only in a particular scenario.

On page 2: "FFNN is also often called Multilayer Perceptron (MLP) because its network architecture consists of several layers. "
The statment is incorrect. It is because each neuron is a perceptron.

On page 3, the last line: "set: k = 0 -> P(0)"
This is hard understood.

On page 4, many symbols are not defined, for example, x_ij.

On page 5, the representation "FFNN(1,2,18;1) - FFNN(1,2,18;6)" needs more explanation.

On page 7, what is AG?

> *** Recommendation: Your overall rating.
Reject (1)

======= Revision review 8 =======

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The paper is well-written, However, the comparison with the related works is missing. As such,I ask the authors to add a discussion for comparing with others work.

> *** Recommendation: Your overall rating.
Accept (9)

======= Revision review 9 =======

> *** Novelty and Contribution: Rate the degree of scientific contribution provided by this paper. Do the authors offer new findings? Do they give proper explanation and detailed analysis?
Accept (9)

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The Authors have shown a well presented work in abstract and introduction sections. The methodology of this paper need to be more clarified as they have used more than one technique. Moreover, the results section need to highlight the results of using hybrid combination of the three mentioned optimizations methods to show a better results outcome.
The conclusion is clear and showed an acceptable level of contribution.

> *** Recommendation: Your overall rating.
Accept (9)

======= Revision review 10 =======

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Weak Reject (3)

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Reject (1)

> *** Detailed Comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper. Also provide feedback to the authors.

Paper is poorly analyse in terms of research paper.
Method use is standard, and there is no comparison or justification of the result obtain.

> *** Recommendation: Your overall rating.
Strong Reject (0)

======= Revision review 11 =======

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Weak Accept (7)

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Weak Accept (7)

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1. in the equation 1, the author(s) mention that fo is the activation function in output layer, and f is the activation function in output layer, what is the difference. really there is no f in all equations. also, you have either mention to the reference of equations or proof them.
2. what type of data used in experiment, what is your goal (predict what?).
3. it is recommend to add related works (algorithms of other papers).
4. it is recommend to compare the results with other works.
5. compare the modified and classical Bee colony and proof that the modified is efficient in your proposal.

> *** Recommendation: Your overall rating.
Weak Accept (7)

======= Revision review 12 =======

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Accept (9)

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This paper presented three optimization methods i.e Genetic Algorithm, Particle Swarm Optimization and Modified Bee Colony for the modeling of Feed Forward Neural Network (FFNN) and was applied to the rainfall data. The experimental study showed that Genetic Algorithm and Particle Swarm Optimization were recommended as optimization methods at FFNN model for the rainfall data.

The technical presentation of this paper is quite good, however it can be further improved as follow:

1) In the Abstract, please define FFNN first before used in the sentence.

2) Typo: The Rule of Thumb. Not thomb!

3) Please explain the parameter for each method in different section. Please revise the whole paragraph:

"We used the ten-daily of rainfall from ZOM 138 Bawak Klaten Central Java from January 2010 until July 2018 with the length of 309. This data was taken from Meteorology, Climatology and Geophysics Agency. The network input are three variables i.e. lags 1, 2 and 18. The one until six hidden units are built first, i.e. FFNN(1,2,18;1) - FFNN(1,2,18;6). Logistic sigmoid and linear are the activation functions used in hidden layer and output layer, respectively. The specification of genetic algorithm used to estimate weights are: population size = 20, probability of crossover pc = 0.7, probability of mutation pm = 0.1 and the number of generations = 10000. Selection of the parents couple is using roulette wheel selection method. In the PSOs, the maximum number of iterations was 500, and the population size (swarm size) was 10. The PSO parameters are determined as follows: Inertia Weight = 1, Inertia Weight Damping

Ratio = 0.99, Personal Learning Coefficient c1 = 1.5, and Global Learning Coefficient c2 = 2.0. Whereas, in modified Bee Colony optimization the ρ is taken equal to 2.5. The brief description of each part is discussed in the next session."

4) Please explain how you divide the data into training and testing? Common practice use splitting data into 80:20 or cross validation method.

5) Conclusion can be further elaborated. Please discuss future work.

> *** Recommendation: Your overall rating.
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(7) Conclusion section: Summarize sentences the primary outcomes of the study in a paragraph. Are the claims in this section supported by the results, do they seem reasonable? Have the authors indicated how the results relate to expectations and to earlier research? Does the article support or contradict previous theories? Does the conclusion explain how the research has moved the body of scientific knowledge forward?

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Department of Statistics Faculty of Science and Mathematics
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