**fatkhurokhman fauzi <fatkhurokhmanf@unimus.ac.id>**

# [IAPGOS] Editor Decision
1 message

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**ph@pollub.pl** <ph@pollub.pl>        Wed, Aug 2, 2023 at 6:02 PM
Reply-To: Paweł Komada <p.komada@pollub.pl>
To: Fatkhurokhman Fauzi <fatkhurokhmanf@unimus.ac.id>

Fatkhurokhman Fauzi:

We have reached a decision regarding your submission to Informatyka, Automatyka, Pomiary w Gospodarce i Ochronie Środowiska, "UNBALANCED MULTICLASS CLASSIFICATION WITH ADAPTIVE SYNTHETIC MULTINOMIAL NAÏVE BAYES APPROACH".

Our decision is to: Resubmit for Review

Paweł Komada
Lublin University of Technology
p.komada@pollub.pl

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Reviewer A:
Recommendation: Accept Submission

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**REVIEW FORM**
**I . CRITERIA OF THE ASSESSMENT**

**Topicality of the taken subject**
Does the article present a current state of knowledge?

      Yes

**Cognitive value**
Does the manuscript contain innovative ideas?

      No

**Clarity of the content**
Were the theses pointed out clearly?

      Yes

**Methodological correctness**
Was the research method pointed out?

      Yes

**Are the interpretations and conclusions correct?**

      Yes

**Correctness of the scientific terminology**
Is the terminology correct?

Yes

**Selection and use of bibliography**
Are the references appropriate and up-to-date?

Yes

**Originality of the paper**
Was the article published in any other sources?

Not applicable

**II. FORM**
**Compatibility of the title and content**
Is the title formulated clearly? Does it reflect the paper's content?

Yes

**Abstract**
Is the abstract adequate to the paper's content?

Yes

**Keywords**

Are the keywords selected appropriately?

Yes

**Appropriate structure of the content**
Does the text have a logical structure?

Yes

**Illustration material**
Is the illustration material (pictures, schemes, tables) adequately selected and used?

Yes

**SI units**
Are SI units used consistently?

Yes

**Formal and language aspect**
Is the text correct in terms of language and stylistic form?

Yes

**Purpose of publishing:**

medium, needed publication

## III. Explanation of the evaluation and detailed comments

## For the author's information (compulsory)

## Specific comments/explanation:

No

## Suggested changes:

In paragraph 1.2. text from the template should be removed

## Reviewer's suggestions

Accept the submitted text

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Reviewer B:
Recommendation: Revisions Required

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## REVIEW FORM
## I . CRITERIA OF THE ASSESSMENT

## Topicality of the taken subject
Does the article present a current state of knowledge?

Yes

## Cognitive value
Does the manuscript contain innovative ideas?

Yes

## Clarity of the content
Were the theses pointed out clearly?

Yes

## Methodological correctness
Was the research method pointed out?

Yes

## Are the interpretations and conclusions correct?

Yes

## Correctness of the scientific terminology
Is the terminology correct?

Yes

**Selection and use of bibliography**
Are the references appropriate and up-to-date?

Yes

**Originality of the paper**
Was the article published in any other sources?

No

**II. FORM**
**Compatibility of the title and content**
Is the title formulated clearly? Does it reflect the paper's content?

Yes

**Abstract**
Is the abstract adequate to the paper's content?

Yes

**Keywords**

Are the keywords selected appropriately?

Yes

**Appropriate structure of the content**
Does the text have a logical structure?

Yes

**Illustration material**
Is the illustration material (pictures, schemes, tables) adequately selected and used?

Yes

**SI units**
Are SI units used consistently?

Yes

**Formal and language aspect**
Is the text correct in terms of language and stylistic form?

Yes

**Purpose of publishing:**

very high, necessary publication

**III. Explanation of the evaluation and detailed comments**

**For the author's information (compulsory)**

**Specific comments/explanation:**

This study is aimed at classifying the sentiments of people in Indonesia about increasing fuel prices using the ADASYN Multinomial Nave Bayes algorithm. The data testing of 680 tweets related to the increase in fuel prices in Indonesia is conducted. The results show that province with a dense population, such as DKI Jakarta, Java Barat, and Bali, tends to resist the increase in fuel prices. Moreover, the province of Papua Barat has a higher level of education, internet facilities, and a Human Development Index. In addition, the model created has succeeded in predicting each tweet on data testing with an average accuracy of 0.882.

In my opinion, the ADASYN Multinomial Naive Bayes algorithm has several drawbacks when dealing with imbalanced data. The main ones are:

This method is highly sensitive to outliers because it assumes that each class follows a multinomial distribution. It constructs a model based on this assumption, so if there are outliers or anomalies in the data that do not align with this assumption, the model can be improperly trained and produce incorrect predictions.

The method does not consider correlations between features and assumes that the features are independent. This assumption can be violated in real-world data, where there may be correlations between features. As a result, in such cases, this method may provide less accurate predictions due to the neglect of these correlations.

Several methods address these limitations. Some of them include:

- Support Vector Machines (SVM), which can be effective when working with imbalanced data.
- Random Forest, which combines multiple decision trees and can be effective for dealing with imbalanced data. The built-in mechanism of bagging and randomness in random forests helps address class imbalances.
- Gradient Boosting, which is based on weak models such as decision trees. It efficiently works with imbalanced data by allowing the model to focus on low-represented classes through weighting or parameter tuning.
- k-Nearest Neighbors (k-NN), which is a non-parametric classification method for dealing with imbalanced data. The advantage of this algorithm is that it determines the optimal number of neighbors and, with the use of weighting, achieves more accurate classification for rare classes.

**Suggested changes:**

It is well known that the choice of an optimal method always depends on the specific task and statistical characteristics of the data, which are absent in this study. It is recommended to include statistical characteristics of the analyzed data and conduct additional experiments using two methods chosen by the authors. The performance of these methods should be evaluated to select the most suitable one for the specific case.

**Reviewer's suggestions**

Corrections are required

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Informatyka, Automatyka, Pomiary w Gospodarce i Ochronie Środowiska

**fatkhurokhman fauzi <fatkhurokhmanf@unimus.ac.id>**

# [IAPGOS] Nowe powiadomienie ze strony czasopisma Informatyka, Automatyka, Pomiary w Gospodarce i Ochronie Środowiska

2 messages

**ph@pollub.pl** <ph@pollub.pl>                                                                Sun, Oct 1, 2023 at 1:20 AM
Reply-To: Paweł Komada <p.komada@pollub.pl>, "D.Sc. Eng. Paweł Komada" <iapgos@pollub.pl>
To: Fatkhurokhman Fauzi Fauzi <fatkhurokhmanf@unimus.ac.id>

Szanowna Pani/ Szanowny Panie,

na stronie czasopisma "Informatyka, Automatyka, Pomiary w Gospodarce i Ochronie Środowiska" oczekuje nowe powiadomienie:

Nowy numer został opublikowany.

WWW: https://ph.pollub.pl/index.php/iapgos/issue/current

Z wyrazami szacunku,
D.Sc. Eng. Paweł Komada

_____

Informatyka, Automatyka, Pomiary w Gospodarce i Ochronie Środowiska

**fatkhurokhman fauzi** <fatkhurokhmanf@unimus.ac.id>                                      Sun, Oct 1, 2023 at 6:02 AM
To: Paweł Komada <p.komada@pollub.pl>, "D.Sc. Eng. Paweł Komada" <iapgos@pollub.pl>

Thank you for your information

Best Regards

Fatkhurokhman Fauzi
[Quoted text hidden]
--

Fatkhurokhman Fauzi,S.Si., M.Stat.

Department of Statistics

Universitas Muhammadiyah Semarang

Jl. Kedungmundu No.18, Kedungmundu, Kec.

Tembalang, Kota Semarang, Jawa Tengah

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**fatkhurokhman fauzi <fatkhurokhmanf@unimus.ac.id>**

# 3740 - v2
2 messages

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**IAPGOS** <iapgos@pollub.pl>
To: fatkhurokhman fauzi <fatkhurokhmanf@unimus.ac.id>

Wed, Sep 27, 2023 at 1:41 AM

Good afternoon
Please review the article again and approve it.
There is one passage that we propose to remove.
I look forward to hearing from you by tomorrow.
Best regards
Paweł Komada


--
D.Sc. Ph.D. Eng. Paweł Komada
Editor-in-Chief

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📄 **3740_pop.docx**
1708K

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**fatkhurokhman fauzi** <fatkhurokhmanf@unimus.ac.id>
To: IAPGOS <iapgos@pollub.pl>

Wed, Sep 27, 2023 at 5:53 AM

Dear Editor

I agree with your suggestion. I replaced it with one sentence. I have attached the updated file.


Best Regards

Fatkhurokhman Fauzi
[Quoted text hidden]
--


Fatkhurokhman Fauzi,S.Si., M.Stat.


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1659K

**fatkhurokhman fauzi <fatkhurokhmanf@unimus.ac.id>**

# [IAPGOS]
3 messages

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**ph@pollub.pl** <ph@pollub.pl>　　　　　　　　　　　　　Mon, Sep 25, 2023 at 9:37 PM
Reply-To: Ławicki Tomasz <t.lawicki@pollub.pl>
To: Fatkhurokhman Fauzi Fauzi <fatkhurokhmanf@unimus.ac.id>

Please fill in the article metadata correctly, first of all the data of all authors:
- first and last name, in English and Polish the same
- orcid id in format http://orcid.org/0000-0000-0000-0000
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- author affiliations, in English and Polish the same

Please prepare the article according to the formatting template https://ph.pollub.pl//pliki/iapgos/Iapgos_form_EN.doc

Technical editor,
Tomasz Ławicki

_____
Informatyka, Automatyka, Pomiary w Gospodarce i Ochronie Środowiska

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**fatkhurokhman fauzi** <fatkhurokhmanf@unimus.ac.id>　　　　　Tue, Sep 26, 2023 at 6:26 AM
To: Ławicki Tomasz <t.lawicki@pollub.pl>

1. Fatkhurokhman Fauzi
http://orcid.org/0000-0002-8277-8638
Universitas Muhammadiyah Semarang, Department of Statistics, Semarang, Indonesia

2. Ismatullah Ismatullah
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3. Indah Manfaati Nur
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Universitas Muhammadiyah Semarang, Department of Statistics, Semarang, Indonesia
[Quoted text hidden]
--

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📄 **3740_poprawia_autor_rev_rev.docx**
1426K

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**fatkhurokhman fauzi** <fatkhurokhmanf@unimus.ac.id>                    Tue, Sep 26, 2023 at 8:26 AM
To: Ławicki Tomasz <t.lawicki@pollub.pl>

Dear Editor

I sent the latest file, there was a small error which I have updated in the new file.
[Quoted text hidden]

📄 **3740_poprawia_autor_rev_rev.docx**
1820K

fatkhurokhman fauzi <fatkhurokhmanf@unimus.ac.id>

# 3740

4 messages

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**IAPGOS** <iapgos@pollub.pl>
To: fatkhurokhmanf@unimus.ac.id

Fri, Sep 1, 2023 at 12:55 AM

Dear Author
We had a publishing system crash - we probably lost the last version of your article file. We need to verify this.
Please send the last version of the file by 3.09 in reply to this email (important to do this by replying to this email).
Best regards
Paweł Komada

--
D.Sc. Ph.D. Eng. Paweł Komada
Editor-in-Chief

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**fatkhurokhman fauzi** <fatkhurokhmanf@unimus.ac.id>
To: IAPGOS <iapgos@pollub.pl>

Fri, Sep 1, 2023 at 5:40 AM

Dear editors

Thank you for the information. Below I attach the latest revision file.

Best regards
Fatkhurokhman Fauzi
[Quoted text hidden]
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Fatkhurokhman Fauzi,S.Si., M.Stat.

Department of Statistics

Universitas Muhammadiyah Semarang

Jl. Kedungmundu No.18, Kedungmundu, Kec.

Tembalang, Kota Semarang, Jawa Tengah

50273

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**2 attachments**

📄 **Responses to Reviewers.docx**
17K

📄 **paper revision 2.docx**
1238K

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**IAPGOS** <iapgos@pollub.pl>                                    Sun, Sep 10, 2023 at 1:01 AM
To: fatkhurokhman fauzi <fatkhurokhmanf@unimus.ac.id>

Dear Author
Your article is being prepared for publication in issue 3/2023 (expected publication date: 30.09.2023).
Due to a system failure, the article file will be uploaded to the server by us when it is ready for publication. It will
definitely be renumbered.
You will receive an automatic message from the server when the number is published.
We apologise for the inconvenience and delay in information.

Best regards
Paweł Komada


W dniu 01.09.2023 o 00:40, fatkhurokhman fauzi pisze:
[Quoted text hidden]

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**fatkhurokhman fauzi** <fatkhurokhmanf@unimus.ac.id>              Sun, Sep 10, 2023 at 6:36 AM
To: IAPGOS <iapgos@pollub.pl>

Dear Editor

Thanks for the update. I'm glad to hear the information.


Best regards
Fatkhurokhman Fauzi
[Quoted text hidden]