

BUKTI KORESPONDENSI ARTIKEL JURNAL INTERNASIONAL BEREPUTASI

Judul Artikel : Improving Indonesian multietnics speaker recognition using pitch shifting data augmentation

Nama Jurnal : IAES International Journal of Artificial Intelligence (IJ-AI),

Publhiser : Institute of Advanced Engineering and Science (IAES).

Quarttile Scopus : Q2

SJR : 0.341

Penulis Korespondensi : Kristiawan Nugroho

No	Kegiatan	Tanggal	Halaman
1	Submission to International Journal of Artificial Intelligence (IJ-AI)	24 Januari 2023	2
2	Decision to Revised	11 Maret 2023	3
3	Revision & Modification	15 Maret 2023	8
4	Submit Final Paper and Decision of Submission (Accepted)	27 Maret 2023	9
5	Proofread and Checking Final Paper	7 Juli 2023	10
6	Full Published (Volume 12, Desember 2023)	Desember 2023	11

1. Submission to International Journal of Artificial Intelligence (IJ-AI),

[IJAI] Submission Acknowledgement <https://ijai.iaescore.com/index.php/IJAI/author/submission/22970>

Eksternal

Kotak Masuk x



Prof. Dr. Eugene Yu-Dong Zhang ijai@iaesjournal.com [lewat smtpcorp.com](mailto:ijai@iaesjournal.com)
kepada saya ▼

Sel, 24 Jan 2023, 18.00



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The following message is being delivered on behalf of IAES International Journal of Artificial Intelligence (IJ-AI).

Dear Prof/Dr/Mr/Mrs. Kristiawan Nugroho,

Thank you for submitting the manuscript, "Improving Indonesian Multitronics Speaker Recognition Using Pitch Shifting Data Augmentation" to IAES International Journal of Artificial Intelligence (IJ-AI). The IJ-AI, ISSN/e-ISSN 2089-4872/2252-8938, publishes articles in the field of artificial intelligence (AI) that cover all artificial intelligence (AI) and machine learning (ML) areas and their applications in the following topics: reasoning and evolution; intelligence applications; computer vision and speech understanding; multimedia and cognitive informatics; data mining and machine learning tools; heuristic and AI planning strategies and tools; multiagent systems; supervised learning; unsupervised learning; deep learning; big data and AI approaches; reinforcement learning; and learning with generativity. This journal is indexed in Scopus (<https://www.scopus.com/sourceid/21100901206>) and all published papers since the 2018 issues have been included in [scopus.com](https://www.scopus.com). This journal has been included in the SCImago Journal Rank (<https://www.scimagojr.com/journalsearch.php?q=21100901206&tip=sid&clean=0>) since 2020 (or since SJR 2019). The IAES International Journal of Artificial Intelligence has an SJR of 0.35, SNIP of 0.592, and a CiteScore of 2.3, which is reasonably meaningful.

With the online journal management system that we are using, you will be able to track its progress through the editorial process by logging in to the journal web site:

Manuscript URL:

<https://ijai.iaescore.com/index.php/IJAI/author/submission/22970>

2. Decision to Revised

[IJAI] Editor Decision: ACCEPT with minor revisions (Scopus indexed)

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Prof. Dr. Eugene Yu-Dong Zhang ijai@iaesjournal.com [lewat](#) kirimdata.id
kepada saya, Isworo, De, Omar ▾

Sab, 11 Mar 2023, 04.22 ☆ ↶ ⋮

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The following message is being delivered on behalf of IAES International Journal of Artificial Intelligence (IJ-AI).

-
- Paper ID# 22973
 - Please Strictly use the IJAI Template and Guide of Authors:
<http://iaescore.com/gfa/ijai.docx>
 - Research PAPER: minimum 25 references and Review PAPER: minimum 40 references
 - Please upload the revised paper within 6 weeks
 - Failing to do proper revision may lead to the rejection of your paper
- =====

Dear Prof/Dr/Mr/Mrs: Kristiawan Nugroho,

We have reached a decision regarding your submission entitled "Improving Indonesian Multitronics Speaker Recognition Using Pitch Shifting Data Augmentation" to IAES International Journal of Artificial Intelligence (IJ-AI), a Scopus indexed journal (<https://www.scopus.com/sourceid/21100901206>). This journal is indexed by Scopus/Scimagojr, with a SJR of 0.341 (2020), Q2 under Electrical and Electronic Engineering, and Information Systems and Management categories.

Our decision is revisions required.

Please revise your manuscript according to the reviewers' comments. In a response letter that should be sent with your re-submission, you should talk

The following template should be used for responses to reviewers:

I would like to thank the reviewers for their insightful feedback. All comments from Reviewer 1 are highlighted in yellow, those from Reviewer 2 are highlighted in red, and those from Reviewer 3 are highlighted in green.

Reviewer 1

Comment 1: There are some references that are not required.

Response: We thoroughly updated our references; 5 references were eliminated, and two were replaced by more recent publications.

Comment 2: The presentation of Figures 2 and 3 should be improved.

Response: The necessary adjustments have been made.

Comment 3: Equation (2) seems to be incorrect.

Response: Equation (2) is correct. This can be proven as follows:...

In order to clarify equation 9 in the manuscript, the following remarks have been added... etc.

All changes for reviewer 1 are highlighted in yellow in the main text.

Reviewer 2

Comment 1:

Response:

Comment 2:

Response:

Comment 3:

Response:

All changes for reviewer 2 are highlighted in red in the main text.

Reviewer D:

Does the paper contain an original contribution to the field? Is the paper technically sound? Please give your suggestions/comments for improving this paper:

Paper is technically good.

Does the title of the paper accurately reflect the major focus contribution of this paper? Is the abstract a clear description of the paper? Please give your suggestions/comments for improving this paper:

The title matches with contents. The abstract is good and explains the goal of the paper.

Is the paper well written (clear, concise, and well organized)? Are the equations, figures and tables in this journal style, clear, relevant, and are the captions adequate? Please give your suggestions/comments for improving this paper:

Paper needs minor revisions.

1. No references are provided in any section except "INTRODUCTION". Please add references for the claims stated.
 2. Incorrect numbering: The sub-heading of section "2. METHOD" does not match its subsection, which has heading numbers like 3.1, 3.2. Please correct.
 3. Figures: Figures shown in section 3.2 is not readable. The labels are too small in size. Please correct the labels, resize the diagram suitably, or choose a different representation.
 4. Indentation: Section "RESULTS and DISCUSSION" Contents are not aligned with the previous section. Please correct the indentation for it.
 5. Space before and after tables/figures: Follow uniform line spacing (e.g., 1) before and after tables/figures.
 6. Formatting text in the table: Remove more than one white space between words in "Table 2".
 7. Formatting: Use a uniform style of placing figures/tables. E.g. use center alignment.
-

Such a document clarifies everything and will aid the reviewers in evaluating the work fast.

When providing your amended primary document files, you must also upload your corrections statement. Before your manuscript, the declaration of revisions should appear.

Reviewer A:

Does the paper contain an original contribution to the field? Is the paper technically sound? Please give your suggestions/comments for improving this paper:

Please use the IJAI journal template

Does the title of the paper accurately reflect the major focus contribution of this paper? Is the abstract a clear description of the paper? Please give your suggestions/comments for improving this paper:

Yes, the title of paper is a major focus contributed and description abstract is clear.

Is the paper well written (clear, concise, and well organized)? Are the equations, figures and tables in this journal style, clear, relevant, and are the captions adequate? Please give your suggestions/comments for improving this paper:

Yes, the equations, figures and tables in this journal style, clear, relevant, and are the captions is complete.

Please score the paper on a scale of 1-10 as per the directions below:

10 Excellent - Outstanding

8-9 Good

6-7 Average

4-5 Poor

0-3 Very Poor

:

Comments to the Author(s) for improving this paper:

The paper needs minor revision to improve formatting and grammar as follows:

1. No references are provided in any section except "INTRODUCTION." Please add references for the claims stated.
2. Incorrect numbering: The sub-heading of section "2. METHOD" does not match its subsection, which has heading numbers like 3.1, 3.2. Please correct.
3. Figures: Figures shown in section 3.2 is not readable. The labels are too small in size. Please correct the labels, resize the diagram suitably, or choose a different representation.
4. Indentation: Section "RESULTS and DISCUSSION" Contents are not aligned with the previous section. Please correct the indentation for it.
5. Space before and after tables/figures: Follow uniform line spacing (e.g., 1) before and after tables/figures.
6. Formatting text in the table: Remove more than one white space between words in "Table 2".
7. Formatting: Use a uniform style of placing figures/tables. E.g., use center alignment.
8. No abbreviation: Use complete form for figure/table. Change all instances of "Fig" to "Figure."
9. No unnecessary capitalization: Avoid using capitalization for frequent references. Few examples. **Speaker Recognition**, Surveillance Speaker **Recognition**, Forensic **Speaker Recognition**, Security, and Multi Speaker Tracking
10. Space: Check formatting for spacing between words. After period ".", use one space.

3. Revision & Modification

**Kristiawan Nugroho** <kristiawan@edu.unisbank.ac.id>
kepada Eugene ▾

Rab, 15 Mar 2023, 08.30 ☆ ↶ ⋮

Dear Prof. Dr. Eugene Yu-Dong Zhang

IAES International Journal of Artificial Intelligence (IJ-AI)

We thank you in advance for accepting our paper with the title **Improving Indonesian** Multiethnics Speaker Recognition Using Pitch Shifting Data Augmentation with minor revisions.

We have improved the paper according to your directions and from the reviewers. The paper that we have revised is attached with this email and we also submit it to the IJ-AI system. We hope that the paper can be fully accepted and we thank you for your attention.

Warm Regards

Kristiawan Nugroho

Satu lampiran • Dipindai dengan Gmail ⓘ



Paper-Kristiawan...

Paper Revised : ([Link](#))

4. Submit Final Paper and Decision of Submission (Accepted)

P

IJAI Editor <ijai@iaesjournal.com>
kepada saya, Isworo, De, Omar

Sen, 27 Mar 2023, 20.25

☆ ↶

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-- Paper ID# 22973
-- Please strictly adhere to the final checklist: <http://ijai.iaescore.com/index.php/IJAI/about/editorialPolicies#custom-5>
-- Authors should include the research grant or contract number.
-- Submit your final paper along with a similarity report to email: ijai@iaesjournal.com
=====

Dear Prof/Dr/Mr/Mrs. Kristiawan Nugroho,

It is my great pleasure to inform you that your paper entitled "**Improving Indonesian Multitronics Speaker Recognition** Using Pitch Shifting Data Augmentation" has been ACCEPTED and will be published in the forthcoming issue of the IAES International Journal of Artificial Intelligence (IJ-AI), a Scopus indexed journal (see: <https://www.scopus.com/sourceid/21100901206>). Congratulations!!

- (DNN, MFCC) Please expand the full term of an acronym when it is mentioned for the first time (abstract excluded).
- References. Please provide the complete information of this source. Learn more: <https://ieeauthorcenter.ieee.org/wp-content/uploads/IEEE-Reference-Guide.pdf>
- Please provide the links of the researchers' social media accounts of the authors as complete as possible: Scopus, ORCID (required), Google Scholar, and Web of Science (WoS).

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5. Proofread and Checking Final Paper

#PROOFREAD ID 22973, IAES International Journal of Artificial Intelligence (IJ-AI) Publish 2023

Eksternal Kotak Masuk x

 IAES IJ-AI <ijai.layoutdesk@gmail.com>
kepada saya, isworo, moses, omar.farooq ▾

Jum, 7 Jul 2023, 16.01 ☆ ↶ ⋮

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-- Paper ID : 22973
-- Title : **Improving Indonesian multiethnic speaker recognition** using pitch shifting data augmentation

Dear Authors,

I am Engeng Nuraeni writing on behalf of the layout and editing team, under the auspices of the IAES International Journal of Artificial Intelligence (IJ-AI) team. We are pleased to inform you that your paper is in the final stages before publication in a future issue of this journal. Your cooperation in correcting your paper is required. Please find the attached camera ready paper in PDF file format. Please read and check your paper carefully if there is a typo in the title, author name, email, affiliation, contract number in the acknowledgment, citation name and full name of the abbreviation, please mark and put your comments in the attached file below.

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Kind Regards,
Engeng Nuraeni
Layout and Editing Team
Editorial Staff on behalf of Editor-in-Chief

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Artificial Intelligence (IJ-AI) 

Revised Paper : ([Link](#))

6. Full Published (Volume 12 No 04, Desember 2023)



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3.2 
CiteScore

0.341 
SJR

0.811
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Improving Indonesian multiethnics speaker recognition using pitch shifting data augmentation

Kristiawan Nugroho, Isworo Nugroho, De Rosal Igniatius Moses Setiadi, Omar Farooq

Abstract

Speaker recognition to recognize multiethnic speakers is an interesting research topic. Various studies involving many ethnicities require the right approach to achieve optimal model performance. The deep learning approach has been used in speaker recognition research involving many classes to achieve high accuracy results with promising results. However, multi-class and imbalanced datasets are still obstacles encountered in various studies using the deep learning method which cause overfitting and decreased accuracy. Data augmentation is an approach model used in overcoming the problem of small amounts of data and multiclass problems. This approach can improve the quality of research data according to the method applied. This study proposes a data augmentation method using pitch shifting with a deep neural network called pitch shifting data augmentation deep neural network (PSDA-DNN) to identify multiethnic Indonesian speakers. The results of the research that has been done prove that the PSDA-DNN approach is the best method in multi-ethnic speaker recognition where the accuracy reaches 99.27% and the precision, recall, F1 score is 97.60%.

Keywords

Data augmentation; Deep learning; Pitch shifting; Speaker recognition

Full Text:

[PDF](#)

DOI: <http://doi.org/10.11591/ijai.v12.i4.pp1901-1908>

Link paper : <https://ijai.iaescore.com/index.php/IJAI/article/view/22973>