



Andang Sunarto &lt;andang99@gmail.com&gt;

---

**Confirmation of your submission to Advances in Difference Equations - AIDE-D-20-01828**1 pesan

---

**Advances in Difference Equations Editorial Office** <em@editorialmanager.com> 30 November 2020 14.42  
Balas Ke: Advances in Difference Equations Editorial Office <vanessa.ledesma@springernature.com>  
Kepada: Andang Sunarto <andang99@gmail.com>

AIDE-D-20-01828

Iterative Method for Solving One-Dimensional Fractional Mathematical Physics Model via Quarter-Sweep and PAOR

Andang Sunarto, PhD; Praveen Agarwal; Jumat Sulaiman; Jackel Chew Vui Lung; Elayaraja Aruchunan  
Advances in Difference Equations

Dear Dr. Sunarto,

Thank you for submitting your manuscript, "Iterative Method for Solving One-Dimensional Fractional Mathematical Physics Model via Quarter-Sweep and PAOR", to Advances in Difference Equations.

The submission id is: AIDE-D-20-01828

Please refer to this number in any future correspondence.

During the review process, you can keep track of the status of your manuscript online.

Please find below your log-in details to access the system.

Your username is: A.Sunarto

If you forgot your password, you can click the 'Send Login Details' link on the EM Login page at <https://www.editorialmanager.com/aide/>.

Best wishes,

Editorial Office  
Advances in Difference Equations  
<https://advancesindifferenceequations.springeropen.com/>

**\*\*Our flexible approach during the COVID-19 pandemic\*\***

If you need more time at any stage of the peer-review process, please do let us know. While our systems will continue to remind you of the original timelines, we aim to be as flexible as possible during the current pandemic.

This letter contains confidential information, is for your own use, and should not be forwarded to third parties.

Recipients of this email are registered users within the Editorial Manager database for this journal. We will keep your information on file to use in the process of submitting, evaluating and publishing a manuscript. For more information on how we use your personal details please see our privacy policy at <https://www.springernature.com/production-privacy-policy>. If you no longer wish to receive messages from this journal or you have questions regarding database management, please contact the Publication Office at the link below.

---

In compliance with data protection regulations, you may request that we remove your personal registration details at any time. (Use the following URL: <https://www.editorialmanager.com/aide/login.asp?a=r>). Please contact the publication office if you have any questions.



Andang Sunarto &lt;andang99@gmail.com&gt;

---

**AIDE-D-20-01828 - Manuscript Sent Back OR AIDE-D-20-01828 - Journal requirements for your submission OR AIDE-D-20-01828 - Manuscript Sent Back**

1 pesan

**Advances in Difference Equations Editorial Office** <em@editorialmanager.com>

1 Desember 2020 11.39

Balas Ke: Advances in Difference Equations Editorial Office &lt;vanessa.ledesma@springernature.com&gt;

Kepada: Andang Sunarto &lt;andang99@gmail.com&gt;

AIDE-D-20-01828

Iterative Method for Solving One-Dimensional Fractional Mathematical Physics Model via Quarter-Sweep and PAOR  
Andang Sunarto, PhD; Praveen Agarwal; Jumat Sulaiman; Jackel Chew Vui Lung; Elayaraja Aruchunan  
Advances in Difference Equations

Dear Dr. Sunarto,

Your submission entitled "Iterative Method for Solving One-Dimensional Fractional Mathematical Physics Model via Quarter-Sweep and PAOR" has been received.

Before we can further process it you are kindly requested to make the following corrections to meet the journal's requirements (please also refer to the Submission Guidelines):

1. Declaration Statements: Please provide the following sections after the Conclusion section (in order):

- Availability of data and material
- Competing interests
- Funding
- Authors' contributions
- Acknowledgements
- Authors' information (Optional)

Please see link below for details on the information to be included in these sections.

<https://advancesindifferenceequations.springeropen.com/submission-guidelines/preparing-your-manuscript/research-article>

If any of the sections are not relevant to your manuscript, please include the heading and write 'Not applicable' for that section.

Please log onto Editorial Manager as an author.

Please find below your log-in details to access the system.

Your username is: A.Sunarto

If you forgot your password, you can click the 'Send Login Details' link on the EM Login page at

<https://www.editorialmanager.com/aide/>.

Go to the menu item 'Submissions Sent Back to Author', and click on 'Edit Submission'. If no changes are to be made in

the metadata, please go to the submission step 'attach files', and upload your corrected submission. Build the PDF, view your submission, and approve the changes.

Thank you for submitting your work to this journal.

With kind regards,

Vanesa Mae Ledesma  
JEO Assistant

**\*\*Our flexible approach during the COVID-19 pandemic\*\***

If you need more time at any stage of the peer-review process, please do let us know. While our systems will continue to remind you of the original timelines, we aim to be as flexible as possible during the current pandemic.

This letter contains confidential information, is for your own use, and should not be forwarded to third parties.

Recipients of this email are registered users within the Editorial Manager database for this journal. We will keep your information on file to use in the process of submitting, evaluating and publishing a manuscript. For more information on how we use your personal details please see our privacy policy at <https://www.springernature.com/production-privacy-policy>. If you no longer wish to receive messages from this journal or you have questions regarding database management, please contact the Publication Office at the link below.

---

In compliance with data protection regulations, you may request that we remove your personal registration details at any time. (Use the following URL: <https://www.editorialmanager.com/aide/login.asp?a=r>). Please contact the publication office if you have any questions.



Andang Sunarto &lt;andang99@gmail.com&gt;

---

**Your submission to Advances in Difference Equations - AIDE-D-20-01828**

2 pesan

---

**Advances in Difference Equations Editorial Office** <em@editorialmanager.com>

13 Januari 2021 00.00

Balas Ke: Advances in Difference Equations Editorial Office &lt;vanessa.ledesma@springernature.com&gt;

Kepada: Andang Sunarto &lt;andang99@gmail.com&gt;

AIDE-D-20-01828

Iterative Method for Solving One-Dimensional Fractional Mathematical Physics Model via Quarter-Sweep and PAOR  
Andang Sunarto, PhD; Praveen Agarwal; Jumat Sulaiman; Jackel Chew Vui Lung; Elayaraja Aruchunan  
Advances in Difference Equations

Dear Dr. Sunarto,

Your manuscript "Iterative Method for Solving One-Dimensional Fractional Mathematical Physics Model via Quarter-Sweep and PAOR" (AIDE-D-20-01828) has been assessed by our reviewers. Based on these reports, and my own assessment as Editor, I am pleased to inform you that it is potentially acceptable for publication in Advances in Difference Equations, once you have carried out some essential revisions suggested by our reviewers.

Their reports, together with any other comments, are below. Please also take a moment to check our website at <https://www.editorialmanager.com/aide/> for any additional comments that were saved as attachments.

Once you have made the necessary corrections, please submit a revised manuscript online.

Please find below your log-in details to access the system.

Your username is: A.Sunarto

If you forgot your password, you can click the 'Send Login Details' link on the EM Login page at <https://www.editorialmanager.com/aide/>.

Please include a point-by-point response within the 'Response to Reviewers' box in the submission system and highlight (with 'tracked changes'/coloured/underlines/highlighted text) all changes made when revising the manuscript. Please ensure you describe additional experiments that were carried out and include a detailed rebuttal of any criticisms or requested revisions that you disagreed with. Please also ensure that your revised manuscript conforms to the journal style, which can be found in the Submission Guidelines on the journal homepage.

The due date for submitting the revised version of your article is 09 Feb 2021.

Please note, if your manuscript is accepted you will not be able to make any changes to the authors, or order of authors, of your manuscript once the editor has accepted your manuscript for publication. If you wish to make any changes to authorship before you resubmit your revisions, please reply to this email and ask for a 'Request for change in authorship' form which should be completed by all authors (including those to be removed) and returned to this email address. Please ensure that any changes in authorship fulfil the criteria for authorship as outlined in BioMed Central's editorial policies (<http://www.biomedcentral.com/about/editorialpolicies#authorship>).

Once you have completed and returned the form, your request will be considered and you will be advised whether the requested changes will be allowed.

By resubmitting your manuscript you confirm that all author details on the revised version are correct, that all authors have agreed to authorship and order of authorship for this manuscript and that all authors have the appropriate permissions and rights to the reported data.

Please be aware that we may investigate, or ask your institute to investigate, any unauthorised attempts to change authorship or discrepancies in authorship between the submitted and revised versions of your manuscript.

We look forward to receiving your revised manuscript soon.

Best wishes,

Xiao-Jun Yang  
Advances in Difference Equations  
<https://advancesindifferenceequations.springeropen.com/>

#### Reviewer reports:

Reviewer #1: From the preconditioned system, the authors have formulated the Quarter-Sweep Preconditioned Accelerated Over-Relaxation iterative methods specifically to get the approximate solution to the time-fractional diffusion. The examples and the calculations are correct. Why the time-fractional diffusion is used? What are the benefits? The introduction conclusion should be extended. The original contributions need better explanations. Besides, the misprints should be corrected and the list of references needs enlargements. I suggest the following references to be added in the extended introduction part.

A Numerical Approach of a Time Fractional Reaction-Diffusion Model with a Non-Singular Kernel  
SYMMETRY-BASEL Volume: 12 Issue: 10 Article Number: 1653 Published: OCT 2020

Numerical schemes for studying biomathematics model inherited with memory-time and delay-time  
ALEXANDRIA ENGINEERING JOURNAL Volume: 59 Issue: 5 Pages: 2969-2974 Published: OCT 2020

Reviewer #2: Dear Respected Editor,

I have read this paper in detail. Authors, in this paper, have studied to utilize the second-order finite-difference scheme for an efficient solution of the time-fractional type diffusion problems. The finite-difference approximation has based on the Caputo's time-fractional derivative, and by using the Caputo's derivative, the formulated approximation equation generated a linear system in a large scale. For achieving the maximum speed of the convergence for the solutions of the linear system, they have also produced the preconditioned system of equation. From the preconditioned system, they have formulated the Quarter Sweep Preconditioned Accelerated Over-Relaxation iterative method specifically to obtain the approximate solution to the time-fractional diffusion. Two examples of the time-fractional diffusion problem have been presented to show the effectiveness of the proposed method. Based on the numerical results of the study, they have presented a brief explanation of the efficiency of the proposed method.

This paper needs to be revised a little more by considering the following suggestions

1. At the end of all equations must be putted "COMMA" or "POINT" according to the typing rules. Therefore, they need to pre-check all the paper.

2. Similarity index is a little high for this paper. Thus, they need to reduce its similarity.

3. Conclusion section is too short. It must be extended a little more by giving some important properties of new findings of this paper.

4. Fractional calculus attracted attentions of experts from all over the world. Therefore, various fractional operator have been introduced to the literature such as Aims Mathematics, 5(1), 507-521, 2020; A new technology for solving diffusion and heat equations, Thermal Science, 21(1 Part A), 133-140, 2017; Symmetry, 12(478), 1-16, 2020; A new general fractional order derivative with Rabotnov fractional -exponential kernel applied to model the anomalous heat, Therm.Sci. 23(3A), 1677-1681, 2019; Chaos, Solitons and Fractals, 133(109661), 1-7, 2020; DOI:10.1002/mma.7022, 2021, <https://doi.org/10.1002/num.22526>;

5. The Abstract should contain answers to the following questions: What problem was studied and why is it important? What methods were used? What are the important results? What conclusions can be drawn from the results? What is the novelty of the work and where does it go beyond previous efforts in the literature?

6. The authors are requested to add more details regarding their original contributions in this manuscript.

7. Papers cited in references section must be rewritten according to journal style before further process.

8.Eq.(6) must be rewritten properly.

9. The Introduction should make a compelling case for why the study is useful along with a clear statement of its novelty or originality by providing relevant information and providing answers to basic questions such as: What is already known in the open literature? What is missing (i.e., research gaps)? What needs to be done, why and how? Clear statements of the novelty of the work should also appear briefly in the Abstract and Conclusions sections.

10. An updated and complete literature review should be conducted and should appear as part of the Introduction, while bearing in mind the work's relevance to this Journal and taking into account the scope and readership of the journal. The results and findings should be compared to and discussed in the context of earlier work in the literature.

11. They needs to explain the meaning of tables.

Briefly, after these modifications, this paper may be accepted for publishing.

With my best regards

If improvements to the English language within your manuscript have been requested, you should have your manuscript reviewed by someone who is fluent in English. If you would like professional help in revising this manuscript, you can use any reputable English language editing service. We can recommend our affiliates Nature Research Editing Service (<http://bit.ly/NRES-PS>) and American Journal Experts ([http://bit.ly/AJE\\_PS](http://bit.ly/AJE_PS)) for help with English usage. Please note that use of an editing service is neither a requirement nor a guarantee of publication. Free assistance is available from our English language tutorial (<https://www.springer.com/gb/authors-editors/authorandreviewertutorials/writinginenglish>) and our Writing resources (<http://www.biomedcentral.com/getpublished/writing-resources>). These cover common mistakes that occur when writing in English.

**\*\*Our flexible approach during the COVID-19 pandemic\*\***

If you need more time at any stage of the peer-review process, please do let us know. While our systems will continue to remind you of the original timelines, we aim to be as flexible as possible during the current pandemic.

This letter contains confidential information, is for your own use, and should not be forwarded to third parties.

Recipients of this email are registered users within the Editorial Manager database for this journal. We will keep your information on file to use in the process of submitting, evaluating and publishing a manuscript. For more information on how we use your personal details please see our privacy policy at <https://www.springernature.com/production-privacy-policy>. If you no longer wish to receive messages from this journal or you have questions regarding database management, please contact the Publication Office at the link below.

---

In compliance with data protection regulations, you may request that we remove your personal registration details at any time. (Use the following URL: <https://www.editorialmanager.com/aide/login.asp?a=r>). Please contact the publication office if you have any questions.



Andang Sunarto &lt;andang99@gmail.com&gt;

---

**Decision on your Submission to Advances in Difference Equations - AIDE-D-20-01828R1 - [EMID:aa02deb573087748]**

2 pesan

---

**Advances in Difference Equations Editorial Office** <em@editorialmanager.com> 18 Februari 2021 23.13  
Balas Ke: Advances in Difference Equations Editorial Office <vanessa.ledesma@springernature.com>  
Kepada: Andang Sunarto <andang99@gmail.com>

AIDE-D-20-01828R1

Iterative Method for Solving One-Dimensional Fractional Mathematical Physics Model via Quarter-Sweep and PAOR

Andang Sunarto, PhD; Praveen Agarwal; Jumat Sulaiman; Jackel Chew Vui Lung; Elayaraja Aruchunan  
Advances in Difference Equations

Dear Dr. Sunarto,

I am pleased to inform you that your manuscript "Iterative Method for Solving One-Dimensional Fractional Mathematical Physics Model via Quarter-Sweep and PAOR" (AIDE-D-20-01828R1) has been accepted for publication in Advances in Difference Equations.

Before publication, our production team will check the format of your manuscript to ensure that it conforms to the standards of the journal. They will be in touch shortly to request any necessary changes, or to confirm that none are needed. Articles in this journal may be held for a short period of time prior to publication. If you have any concerns please contact the journal.

Any final comments from our reviewers or editors can be found, below. Please quote your manuscript number, AIDE-D-20-01828R1, when inquiring about this submission.

We look forward to publishing your manuscript and I hope you will consider Advances in Difference Equations again in the future.

Best wishes,

Elena Braverman  
Advances in Difference Equations  
<https://advancesindifferenceequations.springeropen.com/>

Comments:

Reviewer #1: The revised version is suitable for publication.

Reviewer #2: Dear Respected Editor,  
This version of the paper is better than before.  
With my best regards,

---

**\*\*Our flexible approach during the COVID-19 pandemic\*\***



If you need more time at any stage of the peer-review process, please do let us know. While our systems will continue to remind you of the original timelines, we aim to be as flexible as possible during the current pandemic.

This letter contains confidential information, is for your own use, and should not be forwarded to third parties.

Recipients of this email are registered users within the Editorial Manager database for this journal. We will keep your information on file to use in the process of submitting, evaluating and publishing a manuscript. For more information on how we use your personal details please see our privacy policy at <https://www.springernature.com/production-privacy-policy>. If you no longer wish to receive messages from this journal or you have questions regarding database management, please contact the Publication Office at the link below.

---

In compliance with data protection regulations, you may request that we remove your personal registration details at any time. (Use the following URL: <https://www.editorialmanager.com/aide/login.asp?a=r>). Please contact the publication office if you have any questions.

---

**Andang Sunarto** <andang99@gmail.com>  
Kepada: Praveen Agarwal <goyal.praveen2011@gmail.com>

20 Februari 2021 21.56

[Kutipan teks disembunyikan]