



Bukti Korespondensi




Title : Milestone of the most used maximum power point tracking in solar harvesting system
Authors : Tole Sutikno, Arsyad Cahya Subrata, Mohd Hatta Jopri
Journal name : International Journal of Power Electronics and Drive Systems
Issue : Vol 13, No 3, September 2022, pages 1277-1284
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URL : <https://ijpeds.iaescore.com/index.php/IJPEDS/article/download/21676/13986>
SJR=0.346, Q3 --> <https://www.scimagojr.com/journalsearch.php?q=21100258382&tip=sid&clean=0>

Pengiriman paper: 2 Maret 2022

[IJPEDS] Submission Acknowledgement "Milestone of the most used maximum power point tracking in solar harvesting system" External 0 Archives x  



Sanjeevikumar Padmanaban ijpeds@iaesjournal.com via [smtpcorp.com](#)
to me ▾

Wed, Mar 2, 5:09 PM   

The following message is being delivered on behalf of International Journal of Power Electronics and Drive Systems (IJPEDS).

Dear Prof/Dr/Mr/Mrs: Assoc. Prof. Dr. Tole Sutikno,

Thank you for submitting the manuscript, "Milestone of the most used maximum power point tracking in solar harvesting system" to International Journal of Power Electronics and Drive Systems (IJPEDS), a Scopus/ScimagoJR indexed journal. 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:
<http://ijpeds.iaescore.com/index.php/IJPEDS/author/submission/21676>
Username: tole

Your paper ID is number the above URL
If you have any questions, please contact me. Thank you for considering this journal as a venue for your work.

Best Regards,
Sanjeevikumar Padmanaban
International Journal of Power Electronics and Drive Systems (IJPEDS)

Keputusan pertama (Accept with minor revisions): 8 April 2022

[IJPEDS] Editor Decision "Milestone of the most used maximum power point tracking in solar harvesting system" External Inbox x



Sanjeevikumar Padmanaban ijped@iaesjournal.com via smtpcorp.com
to me, Arsyad, Mohd ▾

Fri, Apr 8, 1:58 PM ★ ⏪ ⋮

The following message is being delivered on behalf of International Journal of Power Electronics and Drive Systems (IJPEDS).

-- Paper ID# 21676
-- IJPEDS GFA & Template (MS Word version):
<https://iaescore.com/gfa/ijped.docx>
-- IJPEDS GFA & Template (LaTeX version):
<https://iaescore.com/gfa/ijped.rar>
=====

Dear Prof/Dr/Mr/Mrs Assoc. Prof. Dr. Tole Sutikno,

We have reached a decision regarding your submission entitled "Milestone of the most used maximum power point tracking in solar harvesting system" to International Journal of Power Electronics and Drive Systems (IJPEDS), a SCOPUS indexed Journal, Scimago Journal Ranking (SJR) Q2 on Electrical and Electronics Engineering, CiteScore: 1.49, SJR: 0.304, and SNIP: 1.088.

Our decision is: Accept with minor revisions
The goal of your revised paper is to describe novel technical results.
Please prepare your revised paper within 6 weeks. Read the checklist for preparing your revised paper for publication at:
<http://www.iaescore.com/journals/index.php/IJPEDS/about/editorialPolicies#custom-4>.
Please try to follow the format as closely as possible.

Please submit your revised paper in MS Word file format (ZIP of your LATEX source files if you presented your paper in LATEX) and submit it through our online system at same ID number (NOT as new submission) or simple, by replying this email (ONLY if you reached problems).

I look forward for hearing from you

Thank you

Best Regards,
Prof. Dr. Sanjeevikumar Padmanaban
Aarhus University, Herning
ijped@iaesjournal.com

Reviewer A:

Does the title of the paper accurately reflect the major focus contribution of this paper?:

Yes

If No, Please suggest change of the title as appropriate:

Is the abstract an appropriate and adequate digest of the work?:

Yes

Is the paper clear, concise, and well organized?:

Yes

Rate of the contribution strength to the field is represented in this paper:

Good

Rate the scientific quality of the paper?:

Good

As far as your knowledge, have the authors already published a very similar paper?:

No

If yes, kindly please cite below:

Do authors place the paper in proper context by citing relevant papers?:

Yes

Is the paper free from obvious errors, misconceptions, or ambiguity?:

Yes

Is the paper written in correct English?:

Yes

If No, please note grammatical errors and suggest corrections:

Are the references in IJPEDS style?:

Yes

Are the figures and tables in IJPEDS style, clear, relevant, and are the captions adequate?:

Yes

Is the length of the paper adequate?:

Yes

Please mark appropriate scale for the overall grade for this paper? (A score of 7 or above typically provides ground for IJPEDS acceptance):

9

Reviewer's comments and suggestions to improve the paper. (If it is not possible, kindly please use separate sheets or a copy of the paper for comments and suggestions for revision. Indicate whether revisions are mandatory or suggested. Please use word processing type format if possible, and then upload or submit via email to ljpeds@iaesjournal.com):

The paper is written well. The structure of the paper is good and quite acceptable for such a review paper. However, the explanation for Fig 2 is not quite clear and needs to be improved. At the end of the paper, it would be better to utilize a comparing table of the MPPT methods.

Reviewer B:

Does the title of the paper accurately reflect the major focus contribution of this paper?:

Yes

If No, Please suggest change of the title as appropriate:

Is the abstract an appropriate and adequate digest of the work?:

Yes

Is the paper clear, concise, and well organized?:

No

Rate of the contribution strength to the field is represented in this paper:

Rate of the contribution strength to the field is represented in this paper:

Average

Rate the scientific quality of the paper?:

Average

As far as your knowledge, have the authors already published a very similar paper?:

No

If yes, kindly please cite below:

Do authors place the paper in proper context by citing relevant papers?:

No

Is the paper free from obvious errors, misconceptions, or ambiguity?:

No

Is the paper written in correct English?:

Yes

If No, please note grammatical errors and suggest corrections:

Are the references in IJPEDS style?:

Yes

Are the figures and tables in IJPEDS style, clear, relevant, and are the captions adequate?:

Yes

Is the length of the paper adequate?:

Yes

Please mark appropriate scale for the overall grade for this paper? (A score of 7 or above typically provides ground for IJPEDS acceptance):

6

Reviewer's comments and suggestions to improve the paper. (If it is not possible, kindly please use separate sheets or a copy of the paper for comments and suggestions for revision. Indicate whether revisions are mandatory or suggested. Please use word processing type format if possible, and then upload or submit via email to ljpedes@iaesjournal.com):

1. Each subsection of section 3 needs further improvement. More details in each subsection should be included.

2. More related and relevant papers should be cited and more details must be included for partial shading conditions. For example, please go through the following papers :

- "Intelligent Approach-Based **Maximum Power Point Tracking** for Renewable Energy **System**: A Review." Intelligent Data Analytics for **Power** and Energy **Systems** (2022): 373-405.

- "Comparative assessment of **maximum power point tracking** procedures for photovoltaic **systems**." Green Energy & Environment 2.1 (2017): 5-17.

- "Assessment of meta-heuristic and classical methods for GMPPT of PV **system**." Transactions on Electrical and Electronic Materials 22.3 (2021): 217-234.

- "An Improved Partial Shading Detection Strategy Based on Chimp Optimization Algorithm to Find Global **Maximum Power Point** of **Solar Array System**." Energies 15.4 (2022): 1549.

- "A novel fast mutable duty (FMD) MPPT technique for **solar PV system** with reduced searching area." Journal of Renewable and Sustainable Energy 8.5 (2016): 054703.

- "Fast and precise global **maximum power point tracking** techniques for photovoltaic **system**." IET Renewable **Power** Generation 13.14 (2019): 2569-2579.

Reviewer C:

Does the title of the paper accurately reflect the major focus contribution of this paper?:

Yes

If No, Please suggest change of the title as appropriate:

Is the abstract an appropriate and adequate digest of the work?:

Yes

Is the paper clear, concise, and well organized?:

Yes

Rate of the contribution strength to the field is represented in this paper:

Good

Rate the scientific quality of the paper?:

Average

As far as your knowledge, have the authors already published a very similar paper?:

No

If yes, kindly please cite below:

Do authors place the paper in proper context by citing relevant papers?:

Yes

Is the paper free from obvious errors, misconceptions, or ambiguity?:

Yes

Is the paper written in correct English?:

Yes

If No, please note grammatical errors and suggest corrections:

Are the references in IJPEDS style?:

Yes

Are the figures and tables in IJPEDS style, clear, relevant, and are the captions adequate?:

Yes

Is the length of the paper adequate?:

Yes

Please mark appropriate scale for the overall grade for this paper? (A score of 7 or above typically provides ground for IJPEDS acceptance):

8

Reviewer's comments and suggestions to improve the paper. (If it is not possible, kindly please use separate sheets or a copy of the paper for comments and suggestions for revision. Indicate whether revisions are mandatory or suggested. Please use word processing type format if possible, and then upload or submit via email to ljped@iaesjournal.com):

The paper addresses a **milestone of the most used maximum power point tracking in solar harvesting system**. This paper has presented a development of the P&O method from the initial principle to the end as a reference source for readers. The method is clear. The paper's exposition is clear, but here some relevant concerns arisen that the authors need to address.

- 1) There are assumptions that need justification
- 2) The reference section as well as the literature review have to be enhanced, as there are some missing papers.
- 3) A critical review of the state-of-the-art showing the current gap in the literature has to be presented.
- 4) Give a explanation about low efficiency caused by fluctuating output **power**, on the other hand, is a serious issue for PV **systems**.

Reviewer D:

Does the title of the paper accurately reflect the major focus contribution of this paper?:

Yes

If No, Please suggest change of the title as appropriate:

Is the abstract an appropriate and adequate digest of the work?:

Yes

Is the paper clear, concise, and well organized?:

Yes

Rate of the contribution strength to the field is represented in this paper:

Good

Rate the scientific quality of the paper?:

Good

As far as your knowledge, have the authors already published a very similar paper?:

Yes

If yes, kindly please cite below:

Do authors place the paper in proper context by citing relevant papers?:

Yes

Is the paper free from obvious errors, misconceptions, or ambiguity?:

Yes

Is the paper written in correct English?:

Yes

If No, please note grammatical errors and suggest corrections:

Are the references in IJPEDES style?:

Yes

Are the figures and tables in IJPEDES style, clear, relevant, and are the captions adequate?:

Yes

Is the length of the paper adequate?:

Yes

Please mark appropriate scale for the overall grade for this paper? (A score of 7 or above typically provides ground for IJPEDES acceptance):

8

Reviewer's comments and suggestions to improve the paper. (If it is not possible, kindly please use separate sheets or a copy of the paper for comments and suggestions for revision. Indicate whether revisions are mandatory or suggested. Please use word processing type format if possible, and then upload or submit via email to ijpeds@iaesjournal.com):

Overall paper novelty is good and all the images and references are cited well. I would recommend that, it is acceptable for publication in the journal.

International Journal of Power Electronics and Drive Systems (IJPEDS)
<http://ijpeds.iaescore.com>

Pengiriman Revisi: 23 Mei 2022

Milestone of the most used maximum power point tracking in solar harvesting system External Inbox x



Sanjeevikumar Padmanaban ijpeds@iaesjournal.com via smtpcorp.com
to Yasser, Jiucal, Tole, Arsyad, Mohd ▾

Mon, May 23, 10:51 AM ☆ ↶ ⋮

The following message is being delivered on behalf of International Journal of Power Electronics and Drive Systems (IJPEDS).

Paper ID# 21676

Title: "Milestone of the most used maximum power point tracking in solar harvesting system"

Dear Prof. Dr. Sanjeevikumar Padmanaban,
Editor-in-Chief, International Journal of Power Electronics and Drive Systems (IJPEDS)

Thank you for allowing a re-submission of our manuscript, with an opportunity to address the reviewers' comments. Thank for comments and suggestions for improving our paper.

We are uploading:

- (a) our point-by-point response to the comments (below) (response to reviewers),
- (b) an updated manuscript with yellow highlighting indicating changes, and
- (c) a clean updated manuscript without highlights.

Best regards,
Tole Sutikno

Reviewer#1, Concern # 1:

Author response: The paper is written well. The structure of the paper is good and quite acceptable for such a review paper. However, the explanation for Fig 2 is not quite clear and needs to be improved. At the end of the paper, it would be better to utilize a comparing table of the MPPT methods.

Author action: Thank for Reviewer#1's comments. We have added further explanation for Figure 2: "The P&O method developed rapidly, starting from the fixed step size introduced by Atlas Atlas et. al. [36]. Since then, various method developments have shown variations, such as adjustable step size. Then followed the need to handle partial shading and different other requirements. The developmental methods include fixed step-size; step-size variables; partial shading; threshold module current; three-point-comparison; maximization of dynamic performance; minimization of dynamic performance; bandwidth of P-V curve; decoupling; observation of dV, dI, and dP; datasheet parameters; curve fitting; voltage hold P&O; and observation of dV and dP will be explained in more detail."

However, we did not add a comparison table because this paper does not discuss about comparisons between P&O methods.

Reviewer#2, Concern # 1:

Author response: Each subsection of section 3 needs further improvement. More details in each subsection should be included.

Author action: Thank for Reviewer#2's comment. We have added explanations to several subsections of section 3: 3.8. Bandwidth of P-V curve and 3.11. Datasheet parameters.

Reviewer#2, Concern # 2:

Author response: More related and relevant papers should be cited and more details must be included for partial shading conditions. For example, please go through the following papers:

- "Intelligent Approach-Based Maximum Power Point Tracking for Renewable Energy System: A Review." Intelligent Data Analytics for Power and Energy Systems (2022): 373-405.

- "Comparative assessment of maximum power point tracking procedures for photovoltaic systems." Green Energy & Environment 2.1 (2017): 5-17.

- "Assessment of meta-heuristic and classical methods for GMPPT of PV system." Transactions on Electrical and Electronic Materials 22.3 (2021): 217-234.

- "An Improved Partial Shading Detection Strategy Based on Chimp Optimization Algorithm to Find Global Maximum Power Point of Solar Array System." Energies 15.4 (2022): 1549.

- "A novel fast mutable duty (FMD) MPPT technique for solar PV system with reduced searching area." Journal of Renewable and Sustainable Energy 8.5 (2016): 054703.

- "Fast and precise global maximum power point tracking techniques for photovoltaic system." IET Renewable Power Generation 13.14 (2019): 2569-2579.

Author action: Thank for your suggestion. We have included several relevant papers that the reviewer proposed. We put the article in the Variable step size category.

Reviewer#3, Concern # 1:

Author response: There are assumptions that need justification.

Author action: Thank for Reviewer#3's comment. This paper describes P&O milestones as an MPP tracking algorithm in PV systems. The literature that is used as key step benchmarks is based on their influence on the development of the P&O algorithm. The literature is obtained from in-depth searches and recommendations from several review papers.

Reviewer#3, Concern # 2:

Author response: **The** reference section as well as **the** literature review have to be enhanced, as there are some missing papers.

Author action: Thank for your comment. We have checked **the** references and did not find any missing papers.

Reviewer#3, Concern # 3:

Author response: A critical review **of the** state-of-the-art showing **the** current gap **in the** literature has to be presented.

Author action: Thank for your suggestion. We have added some literature related to review papers to serve as state-of-the-art gaps **in** our article.

Reviewer#3, Concern # 4:

Author response: Give an explanation about low efficiency caused by fluctuating output **power**, on **the** other hand, is a serious issue for PV systems.

Author action: Thank for your comments. We have added an explanation about low efficiency **in** introduction: "Fluctuations **in** output **power** due to variations **in** irradiation obtained by PV might lead to **the** undesirable performance **of the** electric network. This variation can occur due to clouds covering **the solar** irradiation to **the** PV, which can cause **the output power of the PV system** to drop to zero. Therefore, **the** efficiency generated by **the system**."

Reviewer#4, Concern # 1:

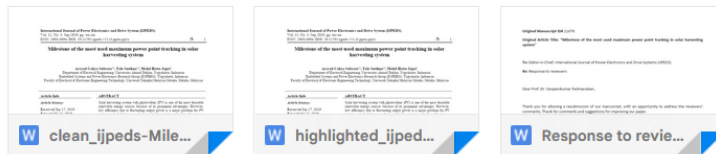
Author response: Overall paper novelty is good and all **the** images and references are cited well. I would recommend that, it is acceptable for publication **in the** journal.

Author action: Thank for Reviewer#4's comment.

International Journal **of Power** Electronics and Drive Systems (IJPEDS)

<http://ijpeds.iaescore.com>

3 Attachments • Scanned by Gmail ⓘ



Paper dinyatakan diterima: 7 Juni 2022

Sanjeevikumar Padmanaban ijpeds@iaesjournal.com via smtpcorp.com
to me, Arsyad, Mohd, Tole

Tue, Jun 7, 10:57 AM ☆ ↶ ⋮

The following message is being delivered on behalf of International Journal of Power Electronics and Drive Systems (IJPEDS).

-- Paper ID# 21676

Dear Dr. Tole Sutikno,

It is my great pleasure to inform you that your paper entitled "**Milestone of the most used maximum power point tracking in solar harvesting system**" is accepted and will be published on the International Journal of Power Electronics and Drive Systems (IJPEDS), a Scopus/ScimagoJR indexed journal (CiteScore 2020: 3.1, SNIP 2020: 0.915, SJR 2020: 0.322, and ScimagoJR 2020: Q2 on Electrical and Electronic Engineering). Congratulations!

Your paper will be published for forthcoming issue.

Thank you

Best Regards,
Prof. Dr. Sanjeevikumar Padmanaban
Aarhus University, Herning
<http://ijpeds.iaescore.com>
email: ijpeds@iaesjournal.com

Please read the checklist for preparing your paper for publication:
<http://ijpeds.iaescore.com/index.php/IJPEDS/about/editorialPolicies#custom-4>

International Journal of Power Electronics and Drive Systems (IJPEDS)
<http://ijpeds.iaescore.com>

Proofreading #1: 9 Juni 2022

IJPEDS Revision Required 21676 External Inbox x

✕ 📎 📧



IJPEDS Staff <ijpeds.staff@gmail.com>
to me

Thu, Jun 9, 10:14 AM ☆ ↶ ⋮

-- Paper ID:21676
-- Title: **Milestone of the most used maximum power point tracking in solar harvesting system**

Dear Prof./Dr./Mr./Mrs.

I am Mita Dewi Suryani writing on behalf of the layout and editing team, under the auspices of the International Journal of Power Electronics and Drive Systems (IJPEDS) team. We are glad to inform you that your paper is in the layout stage for possible publication in the forthcoming issue of this journal. Your cooperation for final checking and/or updating your paper is required. Please find the attached file (including comments and/or marked parts) to take further actions. **Kindly submit your updated paper within 3 days (12 June 2022).**

Please note that this email is only assigned for layout and editing purposes. For other communication purposes, reach us through the principal contact of the journal.

Your cooperation is highly appreciated.

Thank you.
Best Regards,
Mita Dewi Suryani
Assistant Editor of International Journal of Power Electronics and Drive Systems (IJPEDS)
Institute of Advanced Engineering and Science (IAES)



Proofreading #2: 4 Juli 2022

[IJPEDS Proofreading] September 2022 Paper ID 21676

External

Inbox x



IJPEDS Staff <ijpeds.staff@gmail.com>
to me, arsyad.subrata, hatta

Mon, Jul 4, 2:06 PM



-- Paper ID:21676

-- Title: Milestone of the most used maximum power point tracking in solar harvesting system

Dear Prof./Dr./Mr./Mrs.

I am Mita Dewi Suryani writing on behalf of the layout and editing team, under the auspices of the International Journal of Power Electronics and Drive Systems (IJPEDS) team. We are glad to inform you that your paper is in the final stage before publication in the forthcoming issue of this journal. Your cooperation in proofreading your paper is required. Please find the attached final camera ready paper in PDF file format. If you would like to do any update, please mark and put your comments in the attached file below. Kindly send your confirmation within 2x24 hours (6 July 2022).

Please note that this email is only assigned for layout and editing purposes. For other communication purposes, reach us through the principal contact of the journal.

Your cooperation is highly appreciated.

Thank you.

Best Regards,

Mita Dewi Suryani

Assistant Editor of International Journal of Power Electronics and Drive Systems (IJPEDS)
Institute of Advanced Engineering and Science (IAES)



Sertifikat utk Penulis: 5 Agustus 2022

Authors' Certificate of Acknowledgment - Vol 13, No 3 September 2022: 21676

External

Inbox x



ijpeds.staff@gmail.com
to me, arsyad.subrata, hatta

Fri, Aug 5, 12:38 PM



Dear Authors,

Here with we send a certificate as an acknowledgment for your contribution as author in International Journal of Power Electronics and Drive Systems (IJPEDS) Journal for paper ID 21676 entitled Milestone of the most used maximum power point tracking in solar harvesting system. If there is any inquiry about the certificate do not hesitate to contact me through this email. We hope you will publish more in the future and spread the journal among your community.

We encourage authors to share their published articles on social network and repositories, such as SSRN, arXiv, [academia.edu](https://www.academia.edu/), ResearchGate, RePEc, Google Scholar, LinkedIn, Facebook, etc.

Thank you.

Best Regards,

Titin Nur'aida

Assistant Editor of International Journal of Power Electronics and Drive Systems (IJPEDS)

