Undip Mail on Google @live.undip.ac.id

Iwan Setiawan <iwansetiawan@live.undip.ac.id>

[IREE] Editor Decision

1 message

Editorial Staff <editorialstaff@praiseworthyprize.org> Wed, Apr 26, 2017 at 12:51 AM
To: iwansetiawan@live.undip.ac.id

Dear dr. Iwan Setiawan:

We have reached a decision regarding your paper ID 11387: "Analysis and Comparison of Control Strategies for a DFIG-Small Wind Turbine System with High Fluctuating Wind Speed Conditions", submitted to: International Review of Electrical Engineering (IREE). We apologize for the lengthy review period.

The paper has been accepted with minor revisions.

You should change the paper according to the remarks of the reviewers included at the foot of this email, then you should re-submit the revised paper by our on-line submission system, selecting the cited paper and uploading the Author Version in the section "Editor Decision".
The new text and the modifications introduced for answering the remarks of the reviewers should be indicated in red colour.

Sincerely,
Dr. Santolo Meo, Editor-in-Chief of International Review of Electrical Engineering (IREE)
santolo.meo@unina.it

Remarks of the Reviewers:

Reviewer: 1

Recommendation: Accepted with minor revisions.
Comments:
1
The paper doesn't have a nomenclature therefore it is difficult to follow the explanation of the contents.

2
The conclusion is extremely weak.

3
Once more, the English must be improved.

Reviewer: 2

Recommendation: Accepted with minor revisions.
Comments:
1
English grammar needs to be corrected from the abstract to the conclusion of the paper.

2
The control parameter sensitivity in the section IV.3 should be more explained.

Reviewer: 3

Recommendation: Accepted with minor revisions.
Comments:
1
The English needs editing for grammatical errors and style. We suggest to use our service “English Language Editing”. More information can be found to http://www.praiseworthyprize.com/english_service.htm

2
In order to make more comprehensible the presentation, at the beginning of the paper, before the Introduction section, a nomenclature section, not numbered, should be added with a list, in alphabetic order, of all the used symbols and their meaning.

For any questions don't hesitate to contact us.
Best regards,
Editorial Staff
Praise Worthy Prize
Publishing House
editorialstaff@praiseworthyprize.org

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PUBLISHING HOUSE
Editorial Staff
editorialstaff@praiseworthyprize.com

Manuscript ID 11387
Paper Title : Analysis and Comparison of Control Strategies for a DFIG-Small Wind Turbine System with High Fluctuating Wind Speed Conditions

Response to Reviewer #1

Dear Reviewer

We would like to thank you for your valuable comments that helped us to improve our paper. Please find below our detailed reply to your comments.

Sincerely yours,

Iwan Setiawan et al.

Comments of Reviewer #1

1. The paper doesn't have a nomenclature therefore it is difficult to follow the explanation of the contents.

Authors' Response:

Thank you for your reminder. In the revised manuscript, We have added a nomenclature that placed right before Introduction Section. Please see our revised manuscript

2. The conclusion is extremely weak.

Authors' Response:

Thank you for your suggestion. In the revised manuscript, the paper conclusion has been revised carefully. Below is the revised conclusion of our paper.

The analysis and comparison of the performance of DFIG-small scale wind turbines under the PCS and the RSCS have been investigated in this paper. By using simulation study, it is shown that the output variable dynamic of the DFIG-based wind turbine system under fluctuated wind speed condition strongly depend on the utilized DFIG-system control strategy. Based on simulation results, the power coeficient result from the RSCS compared to the PCS during wind tubine operation is almost settle in its optimum value independent to wind speed fluctuation. However from the the power quality point of view, it is shown that the PCS is more superior than the RSCS. In this case, the dynamic of the power resulted from the PCS is more dampen and smooth compared the power generated by the RSCS for the same wind fluctuation. From the simulation study, it is also shown that compared to the PCS, the RSCS is very sensitive to the change of the control parameters of the DFIG-wind turbine system.

3. Once more, the English must be improved.

Authors' Response:

Thank you for your useful suggestion on the English of our manuscript. We have rechecked the manuscript carefully and revised the typos and tried to avoid any grammar error or syntax error. However, in this case we suppose that our paper still need English improvement so that we have decided to purchase the english editing service offered by praiseworthyprize.com

Response to Reviewer #2

Dear Reviewer

We would like to thank you for your valuable comments that helped us to improve our paper. Please find below our detailed reply to your comments.

Sincerely yours,

Iwan Setiawan et al.

Comments of Reviewer #2

1. English grammar needs to be corrected from the abstract to the conclusion of the paper.

Authors' Response:

Thank you for your useful suggestion on the English Grammar of our manuscript. We have rechecked the manuscript carefully and tried to avoid any grammar error. However, in this case we suppose that our paper still need English improvement so that we have decided to purchase the english editing service offered by praiseworthyprize.com

2. The control parameter sensitivity in the section IV.3 should be more explained.

Authors' Response:

Thank you for your valuable suggestion. In the revised manuscript, we have revised and added more description for IV.3 as shown below.

IV.3. Control Loop Sensitivity

In this study, the sensitivity of the PSC and RSCS control loops are investigated simply by comparing the transient performance of the each control strategies by using two different PI parameters: the optimum PI parameters (Kp_{opt} and Ki_{opt}) and the non-optimum PI parameter (0.1 Kp_{opt} and 0.1 Ki_{opt}). The wind profile that used in this investigation is depicted at Fig. 13.

Fig.15(a) and Fig.15(b) respectively show the plots of the slip and stator power under the PCS with those different PI parameters. From the plots, it is shown that the slip and stator power response under the PCS are almost the same for the different PI control parameters. In other words, the performance of the PCS basically is relatively independent from the chosen PI control paramaters.

Whereas Fig.16(a) and Fig.16(b) respectively show the plots of the slip and power stator under the RSCS. From the plots, it is shown that the slip and stator power dynamic under the RSCS for the different PI parameters depict different

characteristic. In this case, for the non-optimal value of the PI parameters, the slip speed will have more overshoot and in the same time the stator power will be more damped for the change of the wind speed compared to the optimal ones.

So by using this facts, the control loop performance of the RSCS is more sensitive to the variation of control parameters compared to the PCS.

Response to Reviewer #3

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Sincerely yours,

Iwan Setiawan et al.

Comments of Reviewer #3

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Authors' Response:

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2. In order to make more comprehensible the presentation, at the beginning of the paper, before the Introduction section, a nomenclature section, not numbered, should be added with a list, in alphabetic order, of all the used symbols and their meaning.

Authors' Response:

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