



petrus sutyasadi &lt;peter@pmsd.ac.id&gt;

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**Fw: Submission Confirmation for Hydraulic Servo System Control Using Differential Evolution Based Robust Structure Specified  $H^\infty$  Controller**

1 message

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**Dr. Dechrit Maneetham** <dechrit\_m@hotmail.com>  
To: "Bp. Petrus" <peter@pmsd.ac.id>

24 January 2023 at 12:16

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**From:** em.ijsmdo.0.5c9de4.e346404c@editorialmanager.com <em.ijsmdo.0.5c9de4.e346404c@editorialmanager.com> on behalf of IJSMDO <em@editorialmanager.com>**Sent:** Tuesday, July 17, 2018 3:41 PM**To:** dechrit maneetham <dechrit\_m@hotmail.com>**Subject:** Submission Confirmation for Hydraulic Servo System Control Using Differential Evolution Based Robust Structure Specified  $H^\infty$  Controller

Dear Dr. maneetham,

Your submission entitled "Hydraulic Servo System Control Using Differential Evolution Based Robust Structure Specified  $H^\infty$  Controller" has been received by journal International Journal for Simulation and Multidisciplinary Design Optimization.You will be able to check on the progress of your paper by logging on to Editorial Manager as an author. The URL is <https://ijsmdo.editorialmanager.com/>.

Your manuscript will be given a reference number once an Editor has been assigned.

Thank you for submitting your work to this journal.

Kind regards,

International Journal for Simulation and Multidisciplinary Design Optimization

**Fw: APC for Open Access publication**

1 message

**Dr. Dechrit Maneetham** <dechrit\_m@hotmail.com>  
To: "Bp. Petrus" <peter@pmsd.ac.id>

24 January 2023 at 12:16

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**From:** em.ijsmdo.0.61248d.58bb7e26@editorialmanager.com <em.ijsmdo.0.61248d.58bb7e26@editorialmanager.com> on behalf of IJSMDO <em@editorialmanager.com>  
**Sent:** Friday, February 8, 2019 4:18 PM  
**To:** dechrit maneetham <dechrit\_m@hotmail.com>  
**Subject:** APC for Open Access publication

International Journal for Simulation and Multidisciplinary Design Optimization

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Ref.: Ms. No. smdo180008

Dear Dr. maneetham,

Congratulations for your article Hydraulic Servo System Control Using Differential Evolution Based Robust Structure Specified  $H^\infty$  Controller being accepted for publication in the journal International Journal for Simulation and Multidisciplinary Design Optimization.

As you have noted, International Journal for Simulation and Multidisciplinary Design Optimization has adopted the Liberty APC model for the processing of the article processing charges.

Authors submitting their article to International Journal for Simulation and Multidisciplinary Design Optimization are invited to choose the amount of the "article processing charges" that they accept to pay:

[https://www.edpsciences.org/en/publication-charges#anchor\\_Publication-Charges-for-Open-Access-journals](https://www.edpsciences.org/en/publication-charges#anchor_Publication-Charges-for-Open-Access-journals)

Thus we invite you to select the amount you choose between the following propositions.

It is possible to select 0 Euro.

0 EURO  
200 EURO  
400 EURO (recommended)  
500 EURO  
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900 EURO

The given amounts are VAT excluded.

Choosing an APC above 0 € will be a clear statement by the author to support:

- the dissemination of science as widely as possible through open access publishing;
- and the International Journal for Simulation and Multidisciplinary Design Optimization by providing a further platform for the publication of original research and review articles related to the aims of the journal.

Financial support for the journal is immediately used for maintaining and improving:

- an up-to-date infrastructure for the article submission and evaluation process;
- the publication of its content using various formats adapted to different reading habits;
- tools for indexation and discoverability;
- and establishing long-term content access and preservation.

You are invited to click the link below in order to finalize the selection for the payment for your Article Processing Charges.

<https://oa.copyright.com/apc-payment-ui/overview?id=7615207d-d7e4-4285-b3db-264a64ab1433&closeButton=true>

Best regards,  
The Editorial office at EDP Sciences

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petrus sutyasadi &lt;peter@pmsd.ac.id&gt;

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**Fw: Editorial Manager access codes for International Journal for Simulation and Multidisciplinary Design Optimization**

1 message

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**Dr. Dechrit Maneetham** <dechrit\_m@hotmail.com>  
To: "Bp. Petrus" <peter@pmsd.ac.id>

24 January 2023 at 12:15

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**From:** em.ijsmdo.0.65d0a2.385a2fad@editorialmanager.com <em.ijsmdo.0.65d0a2.385a2fad@editorialmanager.com> on behalf of IJSMDO <em@editorialmanager.com>  
**Sent:** Monday, September 9, 2019 6:35 AM  
**To:** dechrit maneetham <dechrit\_m@hotmail.com>  
**Subject:** Editorial Manager access codes for International Journal for Simulation and Multidisciplinary Design Optimization

Dear Dr. maneetham,

Here is your username and a link to create your confidential password, which you need to access the Editorial Manager at <http://www.editorialmanager.com/ijsmdo/>

Username: dechrit\_m  
Link to retrieve your password: <https://www.editorialmanager.com/ijsmdo/l.asp?i=5777&l=A2NI27BB>

Please save this information in a safe place.

You can change your personal information by logging into the International Journal for Simulation and Multidisciplinary Design Optimization website and clicking on the Update My Information link on the top menu.

Best regards,

Best regards,  
The Editorial Team,  
International Journal for Simulation and Multidisciplinary Design Optimization

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petrus sutyasadi &lt;peter@pmsd.ac.id&gt;

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**Fw: Editorial Manager access codes for International Journal for Simulation and Multidisciplinary Design Optimization**

1 message

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**Dr. Dechrit Maneetham** <dechrit\_m@hotmail.com>  
To: "Bp. Petrus" <peter@pmsd.ac.id>

24 January 2023 at 12:15

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**From:** em.ijsmdo.0.669ad6.b6325e99@editorialmanager.com <em.ijsmdo.0.669ad6.b6325e99@editorialmanager.com> on behalf of IJSMDO <em@editorialmanager.com>  
**Sent:** Tuesday, October 15, 2019 5:20 AM  
**To:** dechrit maneetham <dechrit\_m@hotmail.com>  
**Subject:** Editorial Manager access codes for International Journal for Simulation and Multidisciplinary Design Optimization

Dear Dr. maneetham,

Here is your username and a link to create your confidential password, which you need to access the Editorial Manager at <http://www.editorialmanager.com/ijsmdo/>

Username: dechrit\_m  
Link to retrieve your password: <https://www.editorialmanager.com/ijsmdo/l.asp?i=5834&l=VZJCV4JJ>

Please save this information in a safe place.

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Best regards,

Best regards,  
The Editorial Team,  
International Journal for Simulation and Multidisciplinary Design Optimization

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petrus sutyasadi &lt;peter@pmsd.ac.id&gt;

**Fw: Your PDF System Design for Inverted Pendulum Using LQR Control via IoT has been built and requires approval**

1 message

**Dr. Dechrit Maneetham** <dechrit\_m@hotmail.com>  
To: "Bp. Petrus" <peter@pmsd.ac.id>

24 January 2023 at 12:14

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**From:** em.ijsmdo.0.669b89.95dfb2e2@editorialmanager.com <em.ijsmdo.0.669b89.95dfb2e2@editorialmanager.com> on behalf of IJSMDO <em@editorialmanager.com>  
**Sent:** Tuesday, October 15, 2019 8:19 AM  
**To:** dechrit maneetham <dechrit\_m@hotmail.com>  
**Subject:** Your PDF System Design for Inverted Pendulum Using LQR Control via IoT has been built and requires approval

Dear Dr. maneetham,

The PDF for your submission, "System Design for Inverted Pendulum Using LQR Control via IoT" is ready for viewing.

This is an automatic email sent when your PDF is built. You may have already viewed and approved your PDF while on-line, in which case you do not need to return to view and approve the submission

Please go to <https://www.editorialmanager.com/ijsmdo/> to approve your submission.

Username: dechrit\_m  
Password: <https://www.editorialmanager.com/ijsmdo/l.asp?i=5837&l=EN08H8ZI>

Your submission must be approved in order to complete the submission process and send the manuscript to the International Journal for Simulation and Multidisciplinary Design Optimization editorial office.

Please view the submission before approving it to be certain that your submission remains free of any errors.

Thank you for your time and patience.

Editorial Office Staff  
International Journal for Simulation and Multidisciplinary Design Optimization  
<https://www.editorialmanager.com/ijsmdo/>

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petrus sutyasadi &lt;peter@pmsd.ac.id&gt;

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**Fw: Submission Confirmation for System Design for Inverted Pendulum Using LQR Control via IoT**

1 message

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**Dr. Dechrit Maneetham** <dechrit\_m@hotmail.com>  
To: "Bp. Petrus" <peter@pmsd.ac.id>

24 January 2023 at 12:14

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**From:** em.ijsmdo.0.669b8e.9a166441@editorialmanager.com <em.ijsmdo.0.669b8e.9a166441@editorialmanager.com> on behalf of IJSMDO <em@editorialmanager.com>  
**Sent:** Tuesday, October 15, 2019 8:24 AM  
**To:** dechrit maneetham <dechrit\_m@hotmail.com>  
**Subject:** Submission Confirmation for System Design for Inverted Pendulum Using LQR Control via IoT

Dear Dr. maneetham,

Your submission entitled "System Design for Inverted Pendulum Using LQR Control via IoT" has been received by journal International Journal for Simulation and Multidisciplinary Design Optimization.

You will be able to check on the progress of your paper by logging on to Editorial Manager as an author. The URL is <https://www.editorialmanager.com/ijsmdo/>.

Your manuscript will be given a reference number once an Editor has been assigned.

Thank you for submitting your work to this journal.

Kind regards,

International Journal for Simulation and Multidisciplinary Design Optimization

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petrus sutyasadi &lt;peter@pmsd.ac.id&gt;

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**Fw: A manuscript number has been assigned to System Design for Inverted Pendulum Using LQR Control via IoT**

1 message

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**Dr.Dechrit Maneetham** <dechrit\_m@hotmail.com>  
To: "Bp. Petrus" <peter@pmsd.ac.id>

24 January 2023 at 12:13

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**From:** em.ijsmdo.0.66b6da.48875966@editorialmanager.com <em.ijsmdo.0.66b6da.48875966@editorialmanager.com> on behalf of IJSMDO <em@editorialmanager.com>  
**Sent:** Sunday, October 20, 2019 4:51 AM  
**To:** dechrit maneetham <dechrit\_m@hotmail.com>  
**Subject:** A manuscript number has been assigned to System Design for Inverted Pendulum Using LQR Control via IoT

Dear Dr. maneetham,

Your submission entitled "System Design for Inverted Pendulum Using LQR Control via IoT" has been assigned the following manuscript number: smdo190027.

You will be able to check on the progress of your paper by logging on to Editorial Manager as an author.  
The URL is <https://www.editorialmanager.com/ijsmdo/>.

Thank you for submitting your work to this journal.

Kind regards,

Editor-in-Chief  
International Journal for Simulation and Multidisciplinary Design Optimization

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**Fw: Editorial Decision for your Article smdo190027**

1 message

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**Dr.Dechrit Maneetham** <dechrit\_m@hotmail.com>  
To: "Bp. Petrus" <peter@pmsd.ac.id>

18 April 2020 at 13:04

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**From:** Dr.Dechrit Maneetham <dechrit\_m@hotmail.com>  
**Sent:** Wednesday, April 15, 2020 1:59 PM  
**To:** david.bassir@gmail.com <david.bassir@gmail.com>  
**Cc:** patrice.salzenstein@femto-st.fr <patrice.salzenstein@femto-st.fr>  
**Subject:** Fw: Editorial Decision for your Article smdo190027

Dear Editor,

I need to inform you about my paper then I submitted a final version on 6/4/2020. So I want to know when a paper will be published, year and volume.

Please let me know.

Thank you very much  
Kind Regards,  
Dr.Dechrit Maneetham  
Tel:+66 0868821475

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**From:** Dr.Dechrit Maneetham <dechrit\_m@hotmail.com>  
**Sent:** Monday, April 6, 2020 10:46 AM  
**To:** david.bassir@gmail.com <david.bassir@gmail.com>  
**Subject:** Fw: Editorial Decision for your Article smdo190027

Dear Editor,

I need to submit a final version for reviewer comments, Please download file attached.

Thank you very much.

Kind Regards,  
Dr.Dechrit Maneetham  
Tel:+66 0868821475

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**From:** em.ijsmdo.3b0.6a6eb3.5abc2fa8@editorialmanager.com <em.ijsmdo.3b0.6a6eb3.5abc2fa8@editorialmanager.com> on behalf of David Bassir <em@editorialmanager.com>  
**Sent:** Monday, April 6, 2020 10:04 AM  
**To:** dechrit maneetham  
**Subject:** Editorial Decision for your Article smdo190027**CC:** patrice.salzenstein@femto-st.fr

Ref.: Ms. No. smdo190027  
System Design for Inverted Pendulum Using LQR Control via IoT  
International Journal for Simulation and Multidisciplinary Design Optimization

Dear Dr. maneetham,

I am pleased to tell you that your work has now been accepted for publication in International Journal for Simulation and Multidisciplinary Design Optimization.

It was accepted on 27/03/2020.

Comments from the Editor and Reviewers can be found below.

Please make all modifications according to all minor points requested by reviewers in your final version.

Thank you for submitting your work to this journal.

With kind regards

Patrice SALZENSTEIN, PhD  
Editor



## Comments from the Editors and Reviewers:

Dear authors,

I recommend this paper to be accepted.

Please make all modification according to minor revision suggested by the reviewers and send the new version of your manuscript according to the requested changes.

Reviewer #1: The manuscript smdo190027 entitled "System Design for Inverted Pendulum Using LQR Control via IoT" by Dechrit Maneetham and Petrus Sutyasadi is of good scientific quality and deserves to be considered for publication in the International Journal for Simulation and Multidisciplinary Design Optimization.

However, the authors should consider the following corrections and recommendations:

1. (Page 1):

The second affiliation is not attributed to any one of the two authors.

2. (Page 1) - Introduction:

The work is interesting but the motivation is not very clear in the introduction. The choice of methods and approximations used for mathematical model development need to be fully justified.

3. (Page 1) - Introduction:

Leave space after "[4]." and "Figure 1".

4. (Page 2) - Table 1:

Put "Moment of inertia" rather than "Moment of inertia".

5. (Page 2) - Paragraph "Considering the inverted pendulum link in....":

Use the same font size as the one used for all the text.

6. (Page 2) - in the 2ed Newton law :

0 is a vector and not a scalar.

7. (Page 2) - Paragraph "The velocity and acceleration of...":

Need to be reformulated.

8. (Page 4) - Paragraph "The inductance value of L is.... for R thus is":

English needs to be improved.

9. (Page 4) - between eq.26 and 27 "":

Use the same font.

10. (Page 5) - Fig. 3:

The schematic cannot be read. Either it should be enlarged or deleted if it does not provide much useful informations. The caption should contains more details.

11. (Page 5) - section 3.2:

Remove excessive spaces between words of the paragraph.

12. (Page 5 to 7) - section 3.2:

A comparative study should to be done for the fourth case of the cart and pendulum response simulation results.

13. (Page 7) - section 4:

The conclusion is light and need to appear some simulation values to show clearly the assessment between the fourth simulation cases. The use of IoT is a key element of this study and need to be fully detailed and justified, not in appendix section but in the main text.

14. (Page 7) - Appendix section:

In the IoT interface with electronics based device, the last component "Camera, interface for Audio and Video" appeared twice. The figures 8, 9, 10 and 11 should be referred to in the text.

15. (Page 8) - fig. 8, fig. 9 and fig.10:

The code cannot be read. Either figures should be enlarged or deleted if they do not provide much useful informations.

The caption should contains more details.

The two figures (9 and 10) are superposed.

16. (Page 8) - fig. 11:

The figure caption should contains more details such as the mobile phone interface functionalities.

Reviewer #2: 1. This research proposes control method to balance and stabilize an inverted pendulum. The paper has solid theoretical work. Though IoT plays an important role in control tasks, it only takes over a small portion of this paper. I think the IoT part can be removed without losing the significance of this paper.

2. The description of equations could be enhanced. The symbols used in the equations are a bit confusing.


3. Figures 1 and 2 should be enlarged for a clearer view.

4. The resolution of Figure 3 should be increased.

5. The last item in appendix is duplicated. Actually I think the entire appendix is not necessary.

6. Figure 10 is missing.

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