

20 June 2019 at 15:20

Industrial Robot - Manuscript ID IR-06-2019-0135

1 message

Industrial Robot <onbehalfof@manuscriptcentral.com> Reply-To: emerald@coastlinetechnology.com To: peter@pmsd.ac.id, petrussutyasadi@yahoo.co.id

20-Jun-2019

Dear Dr. Sutyasadi,

Your manuscript entitled "Push Recovery Control of Quadruped Robot Using Particle Swarm Optimization Based Structure Specified Mixed Sensitivity H2/H∞ Control" has been successfully submitted online and is presently being given full consideration for publication in Industrial Robot.

Your manuscript ID is IR-06-2019-0135.

Please mention the above manuscript ID in all future correspondence or when calling the office for questions. If there are any changes in your street address or e-mail address, please log in to ScholarOne Manuscripts at https://mc.manuscriptcentral.com/indrobot and edit your user information as appropriate.

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Thank you for submitting your manuscript to Industrial Robot.

Yours sincerely, Industrial Robot Editorial Office



Industrial Robot - Author update

1 message

Industrial Robot <onbehalfof@manuscriptcentral.com> Reply-To: emerald@coastlinetechnology.com To: peter@pmsd.ac.id, petrussutyasadi@yahoo.co.id, manukid@ait.ac.th 27 June 2019 at 19:43

27-Jun-2019 Dear Author(s)

It is a pleasure to inform you that your manuscript titled Push Recovery Control of Quadruped Robot Using Particle Swarm Optimization Based Structure Specified Mixed Sensitivity H2/H[®] Control (IR-06-2019-0135) has passed initial screening and is now awaiting reviewer selection. The manuscript was submitted by Dr. Petrus Sutyasadi with you listed as a co-author. As you are listed as a co-author please log in to https://mc.manuscriptcentral. com/indrobot and check that your account details are complete and correct, these details will be used should the paper be accepted for publication. Yours sincerely,



Re: Industrial Robot

1 message

Emerald <emerald@coastlinetechnology.com> To: peter@pmsd.ac.id

Hi Petrus,

Sorry we are taking some time to review your paper. I have been struggling to find reviewers and have just invited another 6.

I have one favourable review but do need to obtain further reviews.

Can you please suggest additional Reviewers who might be willing and able to provide and unbiased review?

I hope to be able to make a decision on your paper within 2 weeks.

Best wishes,

Clive

Dr Clive Loughlin CEng MIET - Editor Industrial Robot Email emerald@coastlinetechnology.com

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On 15 Aug 2019, at 10:29, Industrial Robot <onbehalfof@manuscriptcentral.com> wrote:

15-Aug-2019

IR-06-2019-0135 - Push Recovery Control of Quadruped Robot Using Particle Swarm Optimization Based Structure Specified Mixed Sensitivity H2/H∞ Control

Dear Dr. Loughlin:

I would like to ask about the progress of my manuscript sent to Industrial Robot Journal. Thank you.

Best wishes,

Petrus

Dr. Petrus Sutyasadi

petrus sutyasadi <peter@pmsd.ac.id>

20 August 2019 at 16:33



12 September 2019 at 20:31

Industrial Robot - Author update

1 message

Industrial Robot <onbehalfof@manuscriptcentral.com> Reply-To: emerald@coastlinetechnology.com To: peter@pmsd.ac.id, petrussutyasadi@yahoo.co.id, manukid@ait.ac.th

12-Sep-2019

Dear Author(s),

It is a pleasure to inform you that all required reviews have been received for your manuscript entitled "Push Recovery Control of Quadruped Robot Using Particle Swarm Optimization Based Structure Specified Mixed Sensitivity H2/H∞ Control" and that your paper is now awaiting an Editor Decision.



Sutyasadi - Industrial Robot - Decision on Manuscript ID IR-06-2019-0135

1 message

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12-Sep-2019

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Manuscript ID IR-06-2019-0135 entitled "Push Recovery Control of Quadruped Robot Using Particle Swarm Optimization Based Structure Specified Mixed Sensitivity $H2/H^{\infty}$ Control" which you submitted to Industrial Robot, has been reviewed. The comments of the reviewer(s) are included at the bottom of this letter.

The reviewer(s) have recommended major revisions to the submitted manuscript, before it can be considered for publication. Therefore, I invite you to respond to the reviewer(s)' comments and revise your manuscript.

Author Guide:

https://mc.manuscriptcentral.com/societyimages/indrobot/How%20to%20publish%20in%20IR-SR.pdf

To revise your manuscript, log in to https://mc.manuscriptcentral.com/indrobot and enter your Author Centre, where you will find your manuscript title listed under "Manuscripts with Decisions." Under "Actions," click on "Create a Revision." Your manuscript number has been appended to denote a revision.

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Once again, thank you for submitting your manuscript to Industrial Robot and I look forward to receiving your revision.

Best wishes, Yours sincerely,

Clive

Dr. Clive Loughlin Editor, Industrial Robot emerald@coastlinetechnology.com

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Reviewer(s)' Comments to Author:

Reviewer: 1

Comments:

Add more recent work or publications to strengthen the background. Add future study or some suggestions in the conclusion.

Additional Questions:

1. Originality: Does the paper contain new and significant information adequate to justify publication?: New concept that the paper tries to present is FRP algorithm. A balancing strategy for a quadruped.

Another significant information is the proposed controller which is a low order H2/H infinity Robust controller that applicable to small embedded system ans its synthesis method.

2. Relationship to Literature: Does the paper demonstrate an adequate understanding of the relevant literature in the field and cite an appropriate range of literature sources? Is any significant work ignored?: The paper cites relevant literature sources. However, the paper needs to add more recent works to strengthen the background

3. Methodology: Is the paper's argument built on an appropriate base of theory, concepts, or other ideas? Has the research or equivalent intellectual work on which the paper is based been well designed? Are the methods employed appropriate?: The concept and the theory are presented in order, make it easy to understand and duplicate.

4. Results: Are results presented clearly and analysed appropriately? Do the conclusions adequately tie together the other elements of the paper?: Simulation and experiment results are presented clearly. The paper compared several methods to show the benefit of the proposed algorithm. The analysis shows the advantages

and limitation of the proposed method. Everything is concluded properly except there is no future study or any suggestion to improve the research

12 September 2019 at 20:32

1/29/23, 9:57 PM

Politeknik Mekatronika Sanata Dharma Mail - Sutyasadi - Industrial Robot - Decision on Manuscript ID IR-06-2019-0135

5. Practicality and/or Research implications: Does the paper identify clearly any implications for practice and/or further research? Are these implications consistent with the findings and conclusions of the paper?: The practical implication is shown that the low order H2/H infinity. Robust controller has been successfully embedded into small microcontroller to control the quadruped robot reaching the FRP and maintaining its balance. All are consistent with the findings and conclusions.

6. Quality of Communication: Does the paper clearly express its case, measured against the technical language of the field and the expected knowledge of the journal's readership? Has attention been paid to the clarity of expression and readability, such as sentence structure, jargon use, acronyms, etc.: The paper clearly expresses its case. It explains in detail the problems and the proposed solutions. Algorithm derivation and controller synthesis are well explained. This makes a good material for the journal's readers. The paper and sentence structure are easy to understand.

Reviewer: 2

Comments:

The authors adopted FRP from biped robot technology and applied it to the quadruple push recovery control. And to move the quadruple robot robustly to the FRP point, they designed H-infinity/2 controller using particle swarm optimization. I give this manuscript reject and resubmit regarding some points. The points are listed below...

1. Lack of walking trajectory generation of quadruple. They must add the walking trajectory generation method and visualization.

2. In section 4.1, there are no thorough notations. First, the authors change Fig. 4~6 to quadruple picture and re-build the variable notations thoroughly. Even though FRP is from biped robot technology, they had the responsibility to visualize it to the quadruple. I had the difficulty to understand the Fig. 4~5 and adopt it to quadruple. The authors better omit all the biped picture and replace it to the quadruple pictures.(the notations, equations must be fully understandable to the reader.)

3. Section 4.1 Fig. 7. Fig. 4~7 and the variable notations must be consistent.

4. 4.2 Eqs.(27). The authors claimed that they modeled the quadruple to the compass biped model. I don't think that this makes sense. If they have, they must clearly state the reason and visualize it by overlapping the compass picture and quadruple picture. And all the variables in Eqs. are clearly explained. For example, tau in Eqs. (27).

5. Fig. 23. The authors must represent the experimental results without push recovery.

Additional Questions:

1. Originality: Does the paper contain new and significant information adequate to justify publication?: The manuscript adopted FRP from the biped robot technology and applied to quadrupled. And designed H-infinity/2 controller to swiftly move the quadrupled to FRP point. I think that the manuscript has its own originality even though used FRP.

2. Relationship to Literature: Does the paper demonstrate an adequate understanding of the relevant literature in the field and cite an appropriate range of literature sources? Is any significant work ignored?: In the introduction, there are some quadruple references and H-infinity controller references. However, the authors needs a more through reference analysis about quadruple push recovery.

3. Methodology: Is the paper's argument built on an appropriate base of theory, concepts, or other ideas? Has the research or equivalent intellectual work on which the paper is based been well designed? Are the methods employed appropriate?: The methodology is well organized.

4. Results: Are results presented clearly and analysed appropriately? Do the conclusions adequately tie together the other elements of the paper?: The authors showed an appropriate experimental results.

5. Practicality and/or Research implications: Does the paper identify clearly any implications for practice and/or further research? Are these implications consistent with the findings and conclusions of the paper?: The paper has implications for practice

6. Quality of Communication: Does the paper clearly express its case, measured against the technical language of the field and the expected knowledge of the journal's readership? Has attention been paid to the clarity of expression and readability, such as sentence structure, jargon use, acronyms, etc.: The English is well written.

Deadline: 11-Nov-2019



Industrial Robot - Author update

1 message

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14-Oct-2019

Dear Author(s),

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The manuscript was submitted by Dr. Petrus Sutyasadi with you listed as a co-author.

As you are listed as a co-author, if you have not already done so please log in to https://mc.manuscriptcentral.com/indrobot and check that your account details are complete and correct, these details will be used should the paper be accepted for publication.



14 October 2019 at 21:46

Industrial Robot - Manuscript ID IR-06-2019-0135.R1

1 message

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Thank you for submitting your manuscript to Industrial Robot.

Yours sincerely, Industrial Robot Editorial Office



Sutyasadi - Industrial Robot - Decision on Manuscript ID IR-06-2019-0135.R1

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09-Jan-2020

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The reviewer(s) have recommended revisions to the submitted manuscript, before it can be considered for publication. Therefore, I invite you to respond to the reviewer(s)' comments and revise your manuscript.

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Best wishes, Yours sincerely,

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Dr. Clive Loughlin Editor, Industrial Robot emerald@coastlinetechnology.com

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Reviewer(s)' Comments to Author:

Reviewer: 1

Recommendation: Minor Revision

Comments:

The authors followed my previous review comments. It seems to be a good shape of manuscript. However, there are some issues to address on.

1. Make Fig. 6, 7, 8 to one picture. And define the parameters(theta_ABC, omega_ABC etc.) to the one picture. One mass with two legs pictures representing initial, impact-, impact+, final status is sufficient to represent the FRP status of the biped(quadruple).

2. Add arrows which represents the swing motion of the quadruple and leg movement in Fig. 5 for clearness.

3. Add the objective of mixed-H_infinity/H2 controller in the introduction (To robustly track the desired joint angle etc.)

Additional Questions:

1. Originality: Does the paper contain new and significant information adequate to justify publication?: The authors applied FRP to quadruple push recovery strategy and H-infinity/2 mixed controller to make the each quadruple joint robustly track the reference trajectory and tuned the controller by PSO method and verified the proposed method by real quadruple experiment. I think even though the authors did not suggested their own method, it deserves to be considered in the journal publication for its applicability and simulation/experiment completeness.

2. Relationship to Literature: Does the paper demonstrate an adequate understanding of the relevant literature in the field and cite an appropriate range of literature sources? Is any significant work ignored?: I think that the paper listed the relevant literature in the field.

3. Methodology: Is the paper's argument built on an appropriate base of theory, concepts, or other ideas? Has the research or equivalent intellectual work on which the paper is based been well designed? Are the methods employed appropriate?: The methodology is good. They followed theory-simulation-

9 January 2020 at 19:03

1/29/23, 9:53 PM Politeknik Mekatronika Sanata Dharma Mail - Sutyasadi - Industrial Robot - Decision on Manuscript ID IR-06-2019-0135.R1

experiment validation procedures.

4. Results: Are results presented clearly and analysed appropriately? Do the conclusions adequately tie together the other elements of the paper?: The results are concise and clear.

5. Practicality and/or Research implications: Does the paper identify clearly any implications for practice and/or further research? Are these implications consistent with the findings and conclusions of the paper?: The paper identified clearly implications for practice. However, there seems to be no further research direction.

6. Quality of Communication: Does the paper clearly express its case, measured against the technical language of the field and the expected knowledge of the journal's readership? Has attention been paid to the clarity of expression and readability, such as sentence structure, jargon use, acronyms, etc.: English used in the manuscript is good.

Deadline: 08-Feb-2020



Sutyasadi - Industrial Robot - Decision on Manuscript ID IR-06-2019-0135.R1

1 message

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Deadline: 08-Feb-2020



IR - Push Recovery Control of Quadruped Robot Using Particle Swarm Optimization Based Structure Specified Mixed Sensitivity H2/H8 Control, is now published online.

1 message

adminTrackit@emeraldpublishing.com <adminTrackit@emeraldpublishing.com> To: peter@pmsd.ac.id 9 March 2020 at 20:45

09-Mar-2020

IR - Industrial Robot: the international journal of robotics research and application

Emerald Insight Date: 09-Mar-2020

I am pleased to inform you that Push Recovery Control of Quadruped Robot Using Particle Swarm Optimization Based Structure Specified Mixed Sensitivity H2/H8 Control of *Industrial Robot: the international journal of robotics research and application* has been published on Emerald Insight.

Should you have any queries please do not hesitate to contact the Production Department.

Best Wishes,

H.Eustace

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Industrial Robot - Author update

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22 January 2020 at 12:12

Industrial Robot - Author update

2 messages

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22-Jan-2020

Dear Author(s),

It is a pleasure to inform you that your manuscript titled Push Recovery Control of Quadruped Robot Using Particle Swarm Optimization Based Structure Specified Mixed Sensitivity H2/H[∞] Control (IR-06-2019-0135.R2) has passed initial screening and is now awaiting reviewer invitation.

The manuscript was submitted by Dr. Petrus Sutyasadi with you listed as a co-author.

As you are listed as a co-author, if you have not already done so please log in to https://mc.manuscriptcentral.com/indrobot and check that your account details are complete and correct, these details will be used should the paper be accepted for publication.

Yours sincerely, Dr. Clive Loughlin Editor, Industrial Robot emerald@coastlinetechnology.com

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22 January 2020 at 12:12

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Yours sincerely, Industrial Robot Editorial Office



22 January 2020 at 20:55

Sutyasadi - Industrial Robot - Decision on Manuscript ID IR-06-2019-0135.R2

3 messages

Industrial Robot <onbehalfof@manuscriptcentral.com> Reply-To: emerald@coastlinetechnology.com To: peter@pmsd.ac.id, petrussutyasadi@yahoo.co.id, manukid@ait.ac.th

22-Jan-2020

Dear Sutyasadi, Petrus; Parnichkun, Manukid

It is a pleasure to accept your manuscript IR-06-2019-0135.R2, entitled "Push Recovery Control of Quadruped Robot Using Particle Swarm Optimization Based Structure Specified Mixed Sensitivity H2/H∞ Control" in its current form for publication in Industrial Robot. Please note, no further changes can be made to your manuscript.

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Thank you for your contribution. On behalf of the Editors of Industrial Robot, we look forward to your continued contributions to the Journal.

Yours sincerely,

Dr. Clive Loughlin Editor, Industrial Robot emerald@coastlinetechnology.com

Manukid Parnichkun <manukid@ait.asia> To: petrus sutyasadi <peter@pmsd.ac.id>

Dear Dr. Petrus,

Congratulations! The paper is accepted. Do I need to fill copyright transfer agreement also?

Best regards, Manukid [Quoted text hidden]

petrus sutyasadi <peter@pmsd.ac.id> To: Manukid Parnichkun <manukid@ait.asia>

Dear Prof. Manukid,

Thank you very much. I think, according to the email above, all authors are requested to complete the CTA. All authors also may update/correct the full contacts detail there. We may use our recently updated ORCID data. Sorry for the inconvenience from the editor procedures.

I'm also sorry for the delay in processing this second paper. This is the fourth journal that I have tried since I went back to Indonesia. Journal of Robotics and Mechatronics from Fuji Technology Press and Artificial Life and Robotics from Springer both of them asked for publication fee more than 150000 JPY. They do not mention the fee in their website. I withdrew my submission from both of the journals. The third journal was International Journal of Robotics and Automation. This journal asked to reduce the pages to much, almost 40%, which is very difficult to do. Then lastly is this Industrial Robot from Emerald. The SNIP is not bad 1,022, but their internationality (SJR International Collaboration) is reducing.

Once again thank you Prof. Manukid for all your support in doing the thesis last time, so this paper is possible to be published.

Best regards,

Petrus [Quoted text hidden] 23 January 2020 at 14:24

23 January 2020 at 16:03



Advance notification: Proof for 'Push Recovery Control of Quadruped Robot Using Particle Swarm Optimization Based Structure Specified Mixed Sensitivity H2/H8 Control'

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manuscriptadmin@emeraldinsight.com <manuscriptadmin@emeraldinsight.com> To: peter@pmsd.ac.id 13 February 2020 at 22:31

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Dear Petrus Sutyasadi,

We would like to thank you again for choosing to publish with Emerald.

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18 May 2020 at 19:48

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Dear Dr. Sutyasadi,

We're pleased to let you know that your paper '<u>Push Recovery Control of Quadruped Robot</u> <u>Using Particle Swarm Optimization Based Structure Specified Mixed Sensitivity H2/H8 Control</u>' has now been assigned a volume and page numbers.

You can find lots of information including <u>copyright information</u> and contacts on our <u>author</u> <u>pages</u>.

Kind regards

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