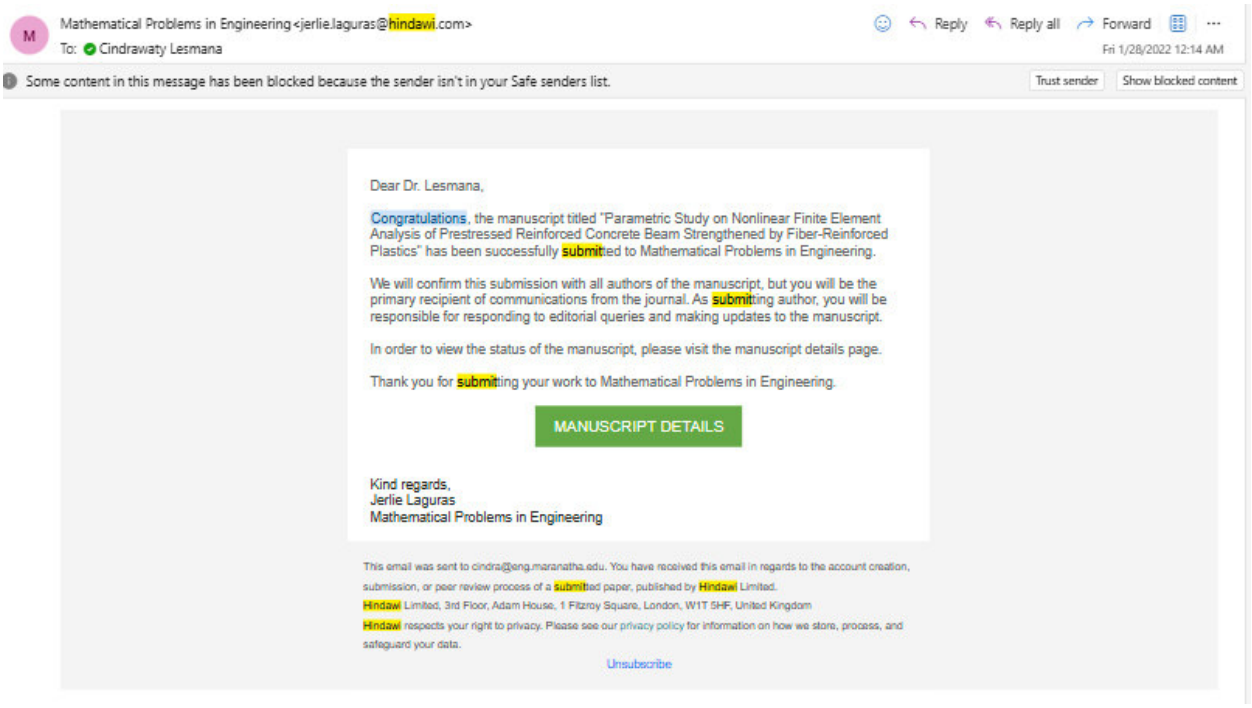
1. Submitted to the journal (28-1-2022)
2. Authors' Feedback Needed (8-2-2022)
3. First revision: Major Revision Requested (20-2-2022)
4. Revised version received (15-4-2022)
5. Second revision: Minor Revision Requested (7-5-2022)
6. Your response is required: 9646889 (5-24-2022)
7. Respond (26-5-2022)
8. Paper accepted for publication (28-5-2022)
9. Manuscript is moving into production (31-5-2022)
10. Galley Proofs (11-6-2022)
11. Galley Proofs Replied (16-6-2022)
12. Article has been published (17-6-2022)

1. Submitted to the journal (28-1-2022)



Mathematical Problems in Engineering <jerlie.laguras@hindawi.com>
To: Cindrawaty Lesmana

Reply Reply all Forward
Fri 1/28/2022 12:14 AM

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Trust sender Show blocked content

Dear Dr. Lesmana,

Congratulations, the manuscript titled "Parametric Study on Nonlinear Finite Element Analysis of Prestressed Reinforced Concrete Beam Strengthened by Fiber-Reinforced Plastics" has been successfully submitted to Mathematical Problems in Engineering.

We will confirm this submission with all authors of the manuscript, but you will be the primary recipient of communications from the journal. As submitting author, you will be responsible for responding to editorial queries and making updates to the manuscript.

In order to view the status of the manuscript, please visit the manuscript details page.

Thank you for submitting your work to Mathematical Problems in Engineering.

MANUSCRIPT DETAILS

Kind regards,
Jerlie Laguras
Mathematical Problems in Engineering

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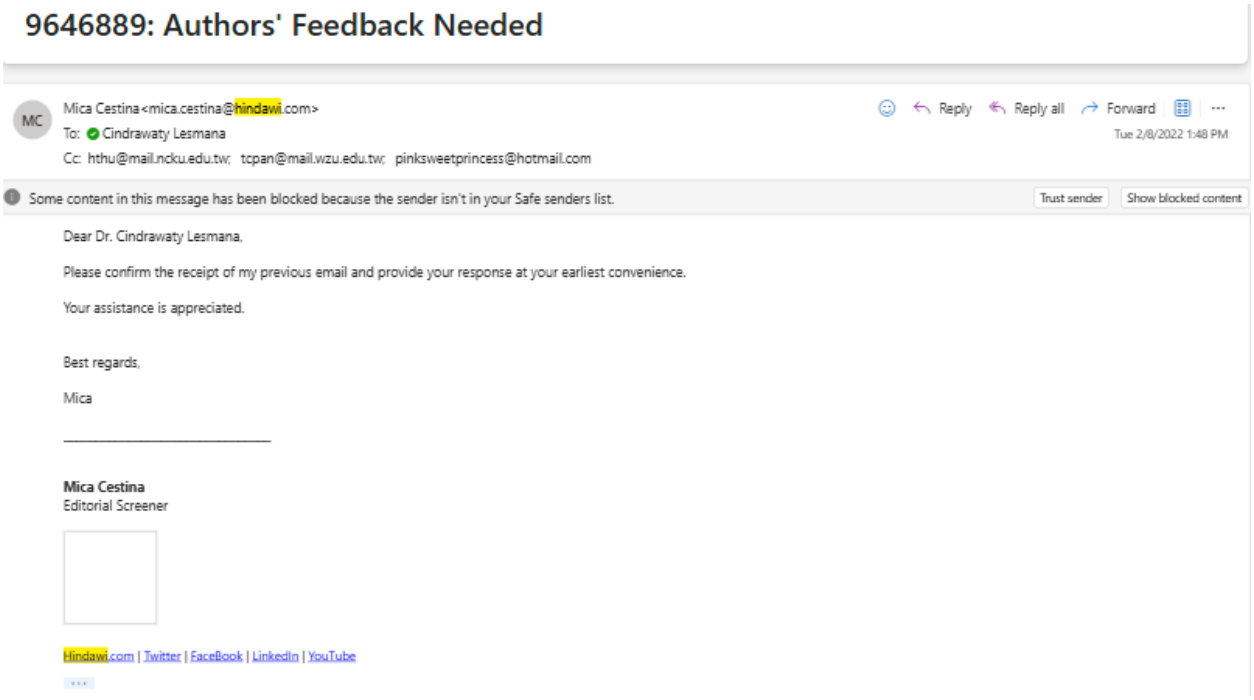
2. Authors' Feedback Needed (8-2-2022)



9646889: Authors' Feedback Needed

MC

Mica Cestina<mica.cestina@hindawi.com>

To: Cindrawaty Lesmana

Cc: hthu@mail.ncku.edu.tw; tcpan@mail.wzu.edu.tw; pinksweetprincess@hotmail.com

Reply Reply all Forward

Tue 2/8/2022 1:48 PM

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Dear Dr. Cindrawaty Lesmana,

Please confirm the receipt of my previous email and provide your response at your earliest convenience.

Your assistance is appreciated.

Best regards,

Mica

Mica Cestina
Editorial Screener

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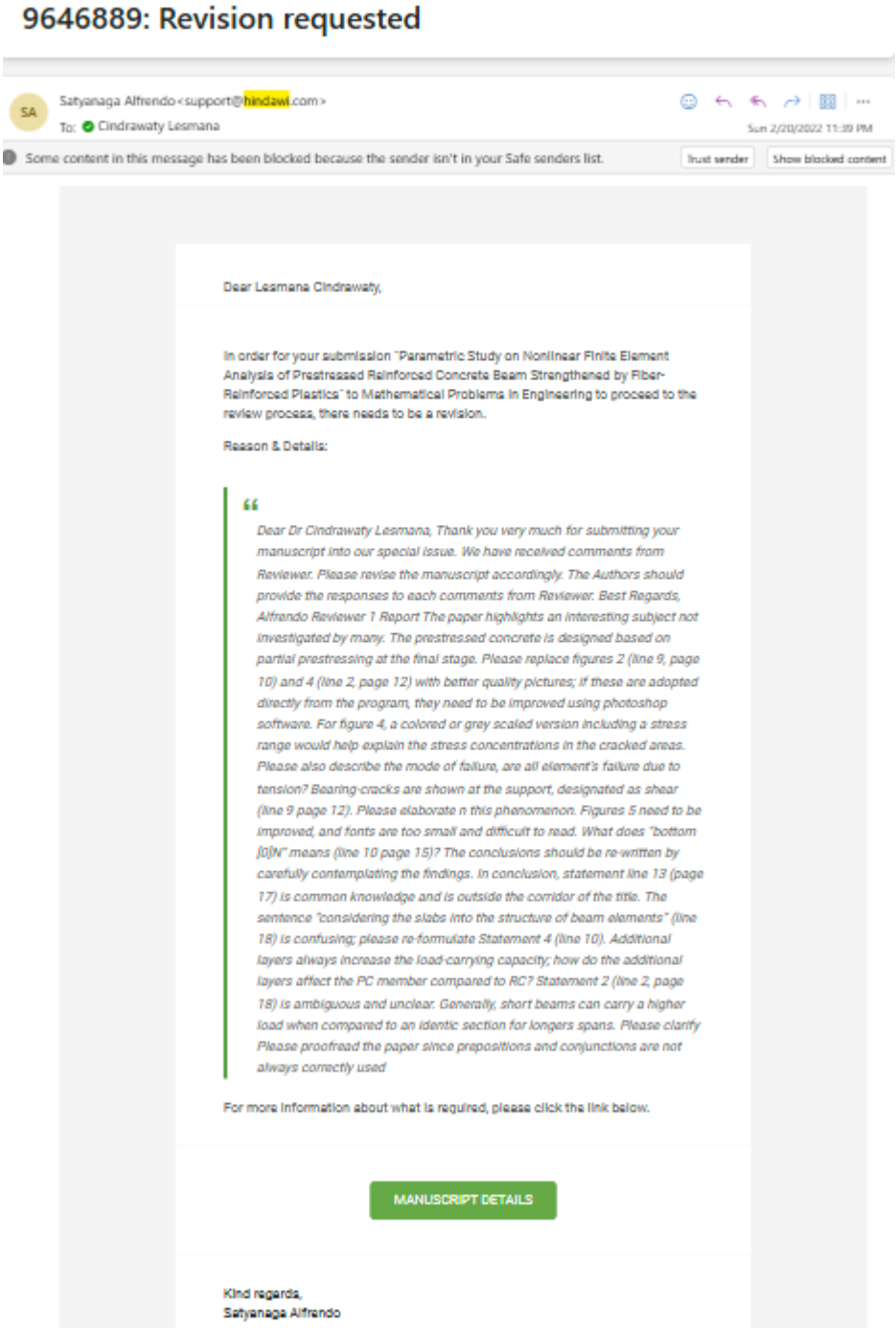
3. First revision: Major Revision Requested (20-2-2022)



9646889: Revision requested

SA Satyanaga Alfrendo <support@hindawi.com>
To: Cindrawaty Lesmana
Sun 2/20/2022 11:39 PM

Some content in this message has been blocked because the sender isn't in your Safe senders list. Trust sender | Show blocked content

Dear Lesmana Cindrawaty,

In order for your submission "Parametric Study on Nonlinear Finite Element Analysis of Prestressed Reinforced Concrete Beam Strengthened by Fiber-Reinforced Plastics" to Mathematical Problems in Engineering to proceed to the review process, there needs to be a revision.

Reason & Details:

> *Dear Dr Cindrawaty Lesmana, Thank you very much for submitting your manuscript into our special issue. We have received comments from Reviewer. Please revise the manuscript accordingly. The Authors should provide the responses to each comments from Reviewer. Best Regards, Alfrendo Reviewer 1 Report The paper highlights an interesting subject not investigated by many. The prestressed concrete is designed based on partial prestressing at the final stage. Please replace figures 2 (line 9, page 10) and 4 (line 2, page 12) with better quality pictures; if these are adopted directly from the program, they need to be improved using photoshop software. For figure 4, a colored or grey scaled version including a stress range would help explain the stress concentrations in the cracked areas. Please also describe the mode of failure, are all element's failure due to tension? Bearing-cracks are shown at the support, designated as shear (line 9 page 12). Please elaborate n this phenomenon. Figures 5 need to be improved, and fonts are too small and difficult to read. What does "bottom [0]N" means (line 10 page 15)? The conclusions should be re-written by carefully contemplating the findings. In conclusion, statement line 13 (page 17) is common knowledge and is outside the corridor of the title. The sentence "considering the slabs into the structure of beam elements" (line 18) is confusing; please re-formulate Statement 4 (line 10). Additional layers always increase the load-carrying capacity; how do the additional layers affect the PC member compared to RC? Statement 2 (line 2, page 18) is ambiguous and unclear. Generally, short beams can carry a higher load when compared to an identic section for longers spans. Please clarify Please proofread the paper since prepositions and conjunctions are not always correctly used*

For more information about what is required, please click the link below.

MANUSCRIPT DETAILS

Kind regards,
Satyanaga Alfrendo

Decision

Major Revision Requested
Alfrendo Satyanaga

GE

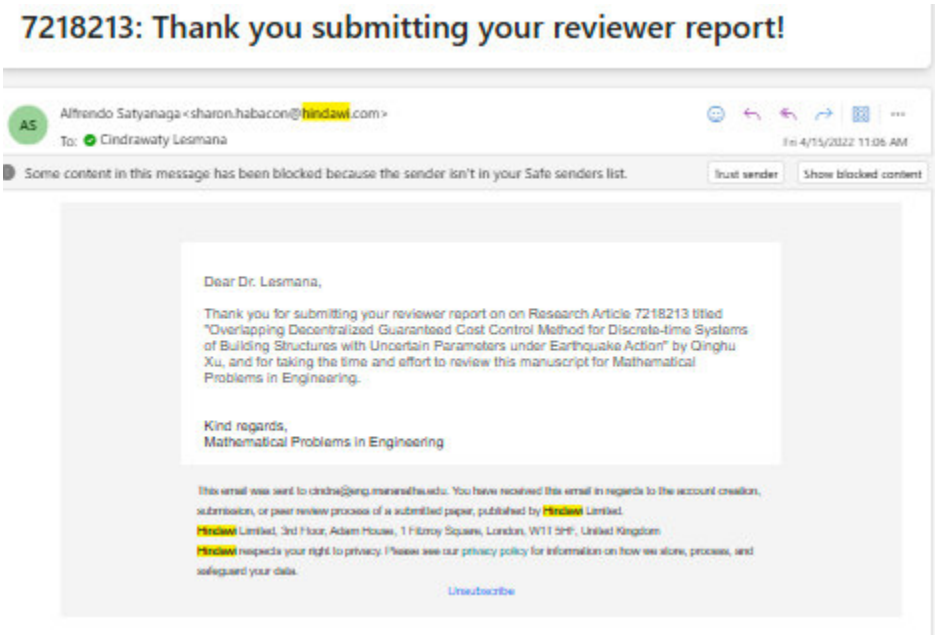
20.02.2022

Message for Author

Dear Dr Cindrawaty Lesmana, Thank you very much for submitting your manuscript into our special issue. We have received comments from Reviewer. Please revise the manuscript accordingly. The Authors should provide the responses to each comments from Reviewer.
Best Regards,
Alfrendo
Reviewer 1 Report

- The paper highlights an interesting subject not investigated by many. The prestressed concrete is designed based on partial prestressing at the final stage.
- Please replace figures 2 (line 9, page 10) and 4 (line 2, page 12) with better quality pictures; if these are adopted directly from the program, they need to be improved using photoshop software.
- For figure 4, a colored or grey scaled version including a stress range would help explain the stress concentrations in the cracked areas.
- Please also describe the mode of failure, are all element's failure due to tension?
- Bearing-cracks are shown at the support, designated as shear (line 9 page 12). Please elaborate n this phenomenon.
- Figures 5 need to be improved, and fonts are too small and difficult to read. What does "bottom [0]N" means (line 10 page 15)?
- The conclusions should be re-written by carefully contemplating the findings.
- In conclusion, statement line 13 (page 17) is common knowledge and is outside the corridor of the title.
- The sentence "considering the slabs into the structure of beam elements" (line 18) is confusing; please re-formulate Statement 4 (line 10).
- Additional layers always increase the load-carrying capacity; how do the additional layers affect the PC member compared to RC?
- Statement 2 (line 2, page 18) is ambiguous and unclear.
- Generally, short beams can carry a higher load when compared to an identic section for longers spans.
- Please clarify Please proofread the paper since prepositions and conjunctions are not always correctly used

4. Revised version received (15-4-2022)



7218213: Thank you submitting your reviewer report!

AS Alfrendo Satyanaga <sharon.habacon@hindawi.com>
To: Cindrawaty Lesmana
Fri 4/15/2022 11:06 AM

Some content in this message has been blocked because the sender isn't in your Safe senders list. Trust sender Show blocked content

Dear Dr. Lesmana,

Thank you for submitting your reviewer report on on Research Article 7218213 titled "Overlapping Decentralized Guaranteed Cost Control Method for Discrete-time Systems of Building Structures with Uncertain Parameters under Earthquake Action" by Qinghu Xu, and for taking the time and effort to review this manuscript for Mathematical Problems in Engineering.

Kind regards,
Mathematical Problems in Engineering

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Subject: Submission of a Revised Article for Evaluation

Reference: Paper entitled “Parametric Study on Nonlinear Finite Element Analysis of Prestressed Reinforced Concrete Beam Strengthened by Fiber-Reinforced Plastics” by Cindrawaty Lesmana , Hsuan-Teh Hu , Tsun-Chen Pan , and Zih-Shu Lin for Mathematical Problems in Engineering – Special Issue: Uncertainty in Computational Method for Application in Civil Engineering.

Dr. Alfrendo Satyanaga
Lead Editor

May 1, 2022

Dear Dr. Satyanaga:

Thank you for the valuable insight from the reviewer. I am pleased to submit the following attached revised article entitled “Parametric Study on Nonlinear Finite Element Analysis of Prestressed Reinforced Concrete Beam Strengthened by Fiber-Reinforced Plastics” for publication consideration in the Mathematical Problems in Engineering – Special Issue: Uncertainty in Computational Method for Application in Civil Engineering.

We believe that this manuscript is appropriate for publication by this special issue because it presents the nonlinear finite element analysis for better understanding the design principles of structural analyses for strengthened prestressed concrete beams using Fiber Reinforced Polymer.

This manuscript has not been published and is not under consideration for publication elsewhere.

Correspondence concerning this paper should be addressed to my co-author:

Hsuan-Teh Hu
Department of Civil Engineering
National Cheng Kung University, Tainan, Taiwan 701, R.O.C.
Tel: 886-6-2757575ext63168, Fax: 886-6-2358542
e-mail: hthu@mail.ncku.edu.tw

Thank you in advance. We are looking forward to hearing from you.

Sincerely yours,

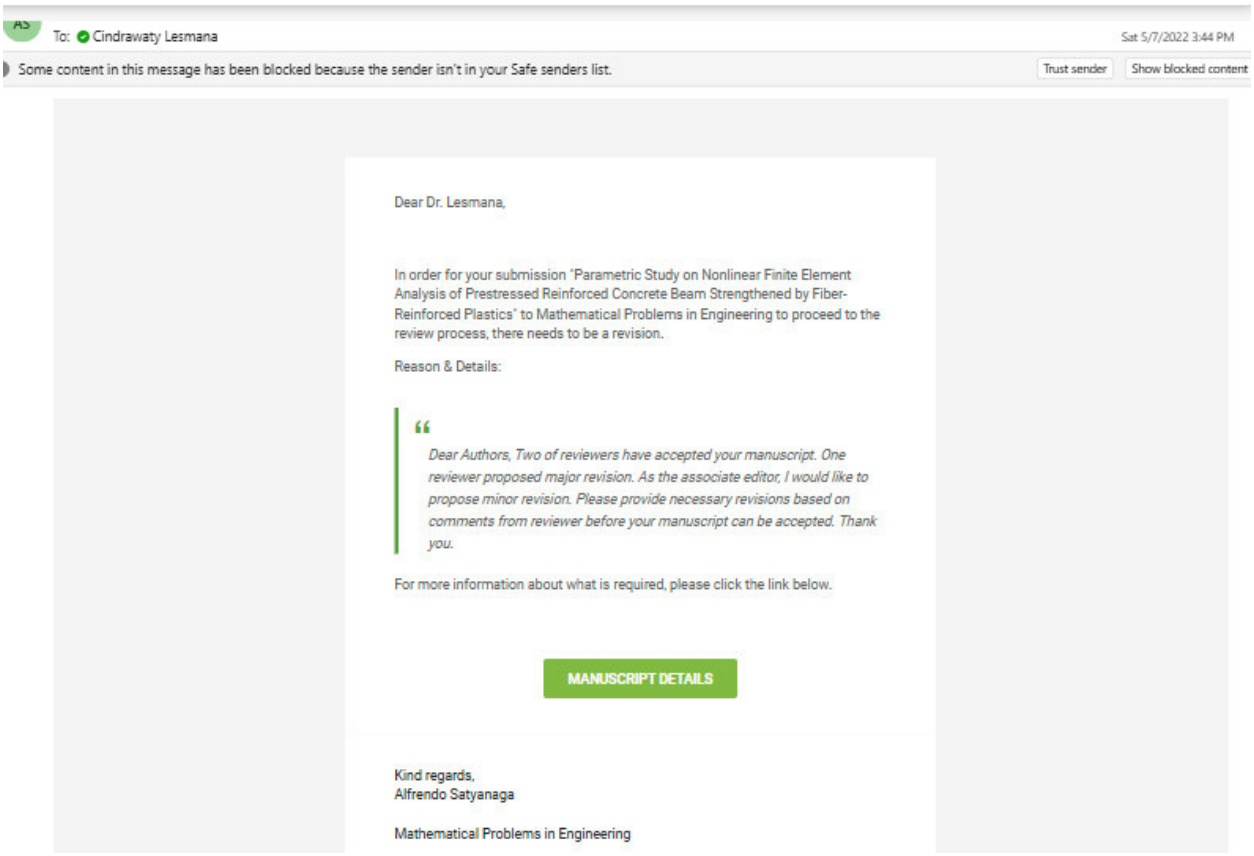
Hsuan-Teh Hu
Department of Civil Engineering
National Cheng Kung University, Tainan, Taiwan 701, R.O.C.

Author's Response to the Comments of Reviewer

Comments of Reviewer #1	Authors' Response to Reviewer #1
Please replace figures 2 (line 9, page 10) and 4 (line 2, page 12) with better quality pictures; if these are adopted directly from the program, they need to be improved using photoshop software.	Thank you for reviewer's suggestion. Figure 2 (line 9, page 9) and 4 (line 2, page 12) have been replaced with better quality pictures.
Please also describe the mode of failure, are all element's failure due to tension?	After the reviewer's first comment is addressed in the revised paper, it is quite clear that the new insight in this paper is: Beams that set under-reinforced, hence expect to appear in tension failure because yielding of steel was responsible for continued higher strains in concrete, resulting in its failure. The sentence has been added at page 12 line 7.
Bearing-cracks are shown at the support, designated as shear (line 9 page 12). Please elaborate this phenomenon.	The authors agree that the cracks show at the support. This phenomenon indicates shear failure that can be avoided by providing additional shear reinforcements near the support where the shear stress is maximum. This statement has been added at page 13 line 3.
Figures 5 need to be improved, and fonts are too small and difficult to read. What does "bottom [0]N" means (line 10 page 15)?	Thank you for reviewer's suggestion. Figure 5 have been replaced with better quality pictures. The explanation about fiber orientation has been stated in page 15 line 5.
The conclusions should be re-written by carefully contemplating the findings. In conclusion, statement line 13 (page 17) is common knowledge and is outside the corridor of the title.	The authors quite agree with the reviewer's comment, the statement has been deleted from the conclusion.
The sentence "considering the slabs into the structure of beam elements" (line 18) is confusing; please re-formulate Statement 4 (line 10).	The statement has been rewrite.
Additional layers always increase the load-carrying capacity; how do the additional layers affect the PC member compared to RC?	Thank you for reviewer's suggestion. However, since the title and purpose are focused in PC member for rectangular and T-beams so the authors will put this suggestion into next manuscript.
Statement 2 (line 2, page 18) is ambiguous and unclear.	The statement has been rewritten.

5. Second revision: Minor Revision Requested (7-5-2022)

9646889: Revision requested



To: Cindrawaty Lesmana

Sat 5/7/2022 3:44 PM

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Dear Dr. Lesmana,

In order for your submission 'Parametric Study on Nonlinear Finite Element Analysis of Prestressed Reinforced Concrete Beam Strengthened by Fiber-Reinforced Plastics' to Mathematical Problems in Engineering to proceed to the review process, there needs to be a revision.

Reason & Details:

> *Dear Authors, Two of reviewers have accepted your manuscript. One reviewer proposed major revision. As the associate editor, I would like to propose minor revision. Please provide necessary revisions based on comments from reviewer before your manuscript can be accepted. Thank you.*

For more information about what is required, please click the link below.

MANUSCRIPT DETAILS

Kind regards,
Alfrendo Satyanaga

Mathematical Problems in Engineering

Subject: Submission of a Revised Article for Evaluation

Reference: Paper entitled “Parametric Study on Nonlinear Finite Element Analysis of Prestressed Reinforced Concrete Beam Strengthened by Fiber-Reinforced Plastics” by Cindrawaty Lesmana , Hsuan-Teh Hu , Tsun-Chen Pan , and Zih-Shu Lin for Mathematical Problems in Engineering – Special Issue: Uncertainty in Computational Method for Application in Civil Engineering.

Dr. Alfrendo Satyanaga
Lead Editor

May 11, 2022

Dear Dr. Satyanaga:

Thank you for the valuable insight from the reviewer. I am pleased to submit the following attached revised article entitled “Parametric Study on Nonlinear Finite Element Analysis of Prestressed Reinforced Concrete Beam Strengthened by Fiber-Reinforced Plastics” for publication consideration in the Mathematical Problems in Engineering – Special Issue: Uncertainty in Computational Method for Application in Civil Engineering.

We believe that this manuscript is appropriate for publication by this special issue because it presents the nonlinear finite element analysis for better understanding the design principles of structural analyses for strengthened prestressed concrete beams using Fiber Reinforced Polymer.

This manuscript has not been published and is not under consideration for publication elsewhere.

Correspondence concerning this paper should be addressed to my co-author:

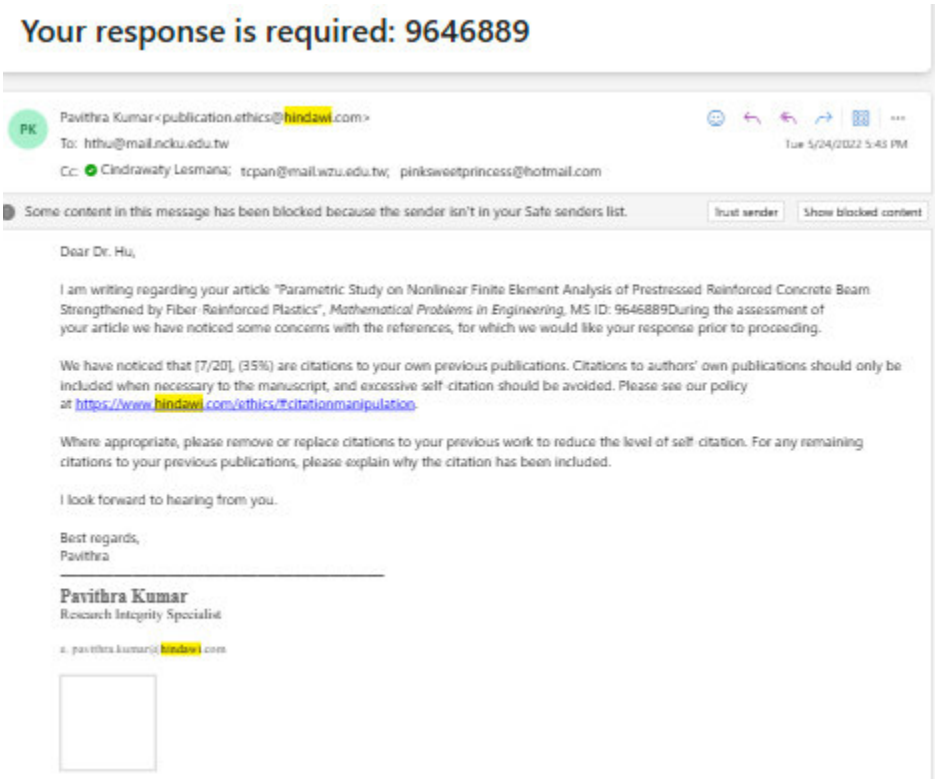
Hsuan-Teh Hu
Department of Civil Engineering
National Cheng Kung University, Tainan, Taiwan 701, R.O.C.
Tel: 886-6-2757575ext63168, Fax: 886-6-2358542
e-mail: hthu@mail.ncku.edu.tw

Thank you in advance. We are looking forward to hearing from you.

Sincerely yours,

Cindrawaty Lesmana
Department of Civil Engineering
Universitas Kristen Maranatha, Bandung, Indonesia
e-mail: cindra@eng.maranatha.edu

6. Your response is required: 9646889 (5-24-2022)



Your response is required: 9646889

PK

Pavithra Kumar<publication.ethics@hindawi.com>

To: hthu@mail.ncku.edu.tw

Tue 5/24/2022 5:43 PM

Cc: Cindrawaty Lesmana; tcpan@mail.wzu.edu.tw; pinksweetprincess@hotmail.com

Some content in this message has been blocked because the sender isn't in your Safe senders list. Trust sender Show blocked content

Dear Dr. Hu,

I am writing regarding your article "Parametric Study on Nonlinear Finite Element Analysis of Prestressed Reinforced Concrete Beam Strengthened by Fiber-Reinforced Plastics", *Mathematical Problems in Engineering*, MS ID: 9646889During the assessment of your article we have noticed some concerns with the references, for which we would like your response prior to proceeding.

We have noticed that [7/20], (35%) are citations to your own previous publications. Citations to authors' own publications should only be included when necessary to the manuscript, and excessive self-citation should be avoided. Please see our policy at https://www.hindawi.com/ethics/#citationmanipulation.

Where appropriate, please remove or replace citations to your previous work to reduce the level of self-citation. For any remaining citations to your previous publications, please explain why the citation has been included.

I look forward to hearing from you.

Best regards,
Pavithra

Pavithra Kumar
Research Integrity Specialist

e. pavithra.kumar@hindawi.com

7. Respond (26-5-2022)

Re: Your response is required: 9646889

PC-FRP_-_4A.docx PC-FRP_-_4A.pdf

On Thu, 26 May at 8:42 AM , hthu <hthu@ncku.edu.tw> wrote: Dear Pavithra:

We have deleted some self-references as suggested in your email. However, we still keep 3 self-references since it is the assumption of the model and verification testing of the model against experimental data that not duplicated in this manuscript. Since I cannot find the slot on your website to submit the revised paper, I will send the revised filles to you (attached to this e-mail).

Please let me know if the paper is ok or not?

Regards,

Hsuan-Teh Hu

-----Original message-----
From: Pavithra Kumar <publication.ethics@hindawi.com>
To: hthu <hthu@mail.ncku.edu.tw>
Cc: cindra <cindra@eng.maranatha.edu>, tcpan <tcpan@mail.wzu.edu.tw>, pinksweetprincess <pinksweetprincess@hotmail.com>
Date: Tue, 24 May 2022 18:42:51
Subject: Re: Your response is required: 9646889
Dear Dr. Hu,

I am writing regarding your article "Parametric Study on Nonlinear Finite Element Analysis of Prestressed Reinforced Concrete Beam Strengthened by Fiber Reinforced Plastics", *Mathematical Problems in Engineering*, MS ID: 9646889During the assessment of your article we have noticed some concerns with the references, for which we would like your response prior to proceeding.

We have noticed that [7/20], (35%) are citations to your own previous publications. Citations to authors' own publications should only be included when necessary to the manuscript, and excessive self citation should be avoided. Please see our policy at https://www.hindawi.com/ethics/#citationmanipulation.

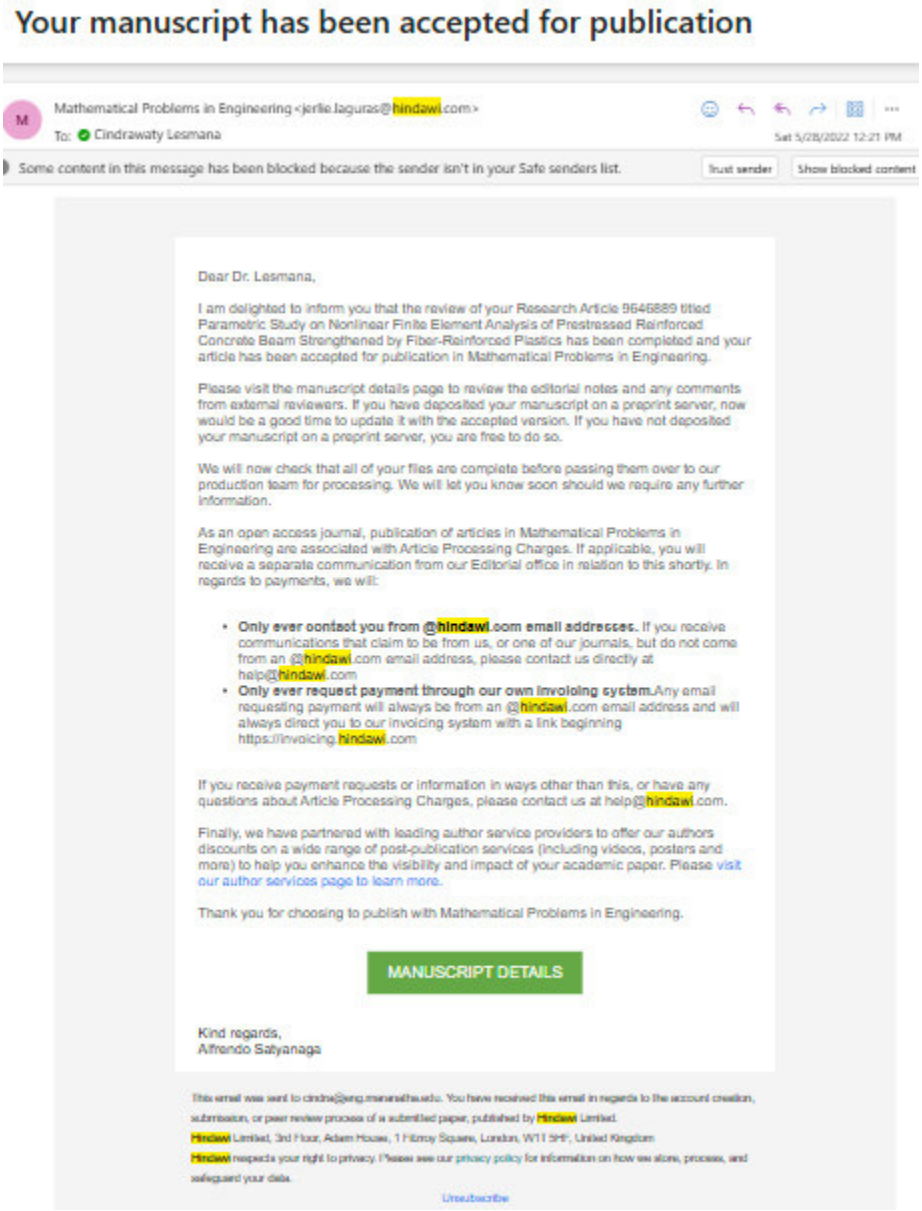
Where appropriate, please remove or replace citations to your previous work to reduce the level of self citation. For any remaining citations to your previous publications, please explain why the citation has been included.

I look forward to hearing from you.

Best regards,
Pavithra

Pavithra Kumar
Research Integrity Specialist
e. pavithra.kumar@hindawi.com

8. Paper accepted for publication (28-5-2022)



Your manuscript has been accepted for publication

Mathematical Problems in Engineering <jerlie.laguras@hindawi.com>
To: Cindrawaty Lesmana
Sat 5/28/2022 12:21 PM

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Dear Dr. Lesmana,

I am delighted to inform you that the review of your Research Article 9646889 titled Parametric Study on Nonlinear Finite Element Analysis of Prestressed Reinforced Concrete Beam Strengthened by Fiber-Reinforced Plastics has been completed and your article has been accepted for publication in Mathematical Problems in Engineering.

Please visit the manuscript details page to review the editorial notes and any comments from external reviewers. If you have deposited your manuscript on a preprint server, now would be a good time to update it with the accepted version. If you have not deposited your manuscript on a preprint server, you are free to do so.

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- **Only ever request payment through our own invoicing system.** Any email requesting payment will always be from an @hindawi.com email address and will always direct you to our invoicing system with a link beginning https://invoicing.hindawi.com

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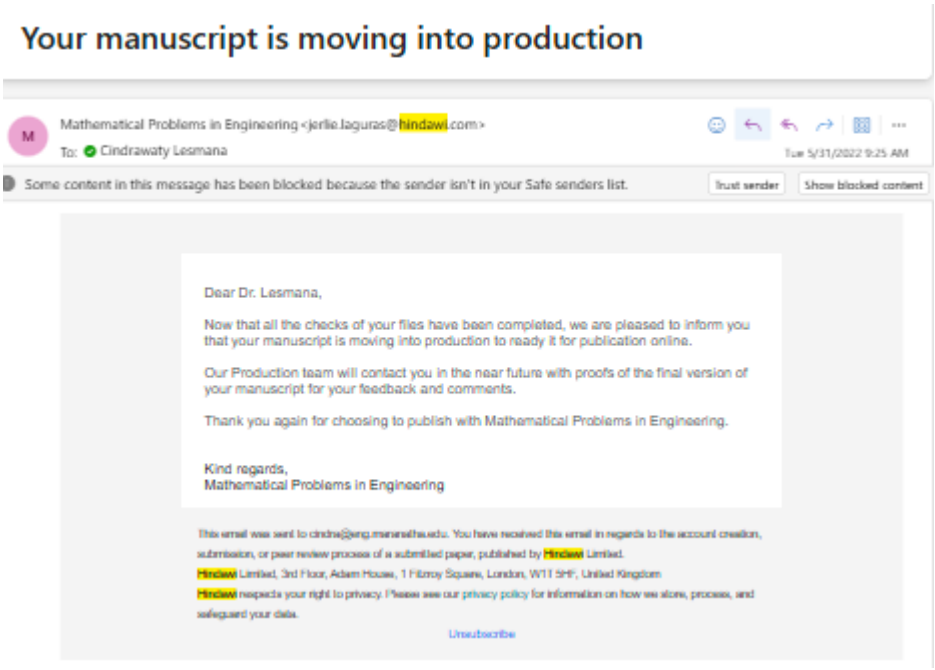
Kind regards,
Alfrendo Satyanaga

9. Manuscript is moving into production (31-5-2022)



Your manuscript is moving into production

Mathematical Problems in Engineering <jerlie.laguras@hindawi.com>

To: Cindrawaty Lesmana

Tue 5/31/2022 9:25 AM

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Dear Dr. Lesmana,

Now that all the checks of your files have been completed, we are pleased to inform you that your manuscript is moving into production to ready it for publication online.

Our Production team will contact you in the near future with proofs of the final version of your manuscript for your feedback and comments.

Thank you again for choosing to publish with Mathematical Problems in Engineering.

Kind regards,
Mathematical Problems in Engineering

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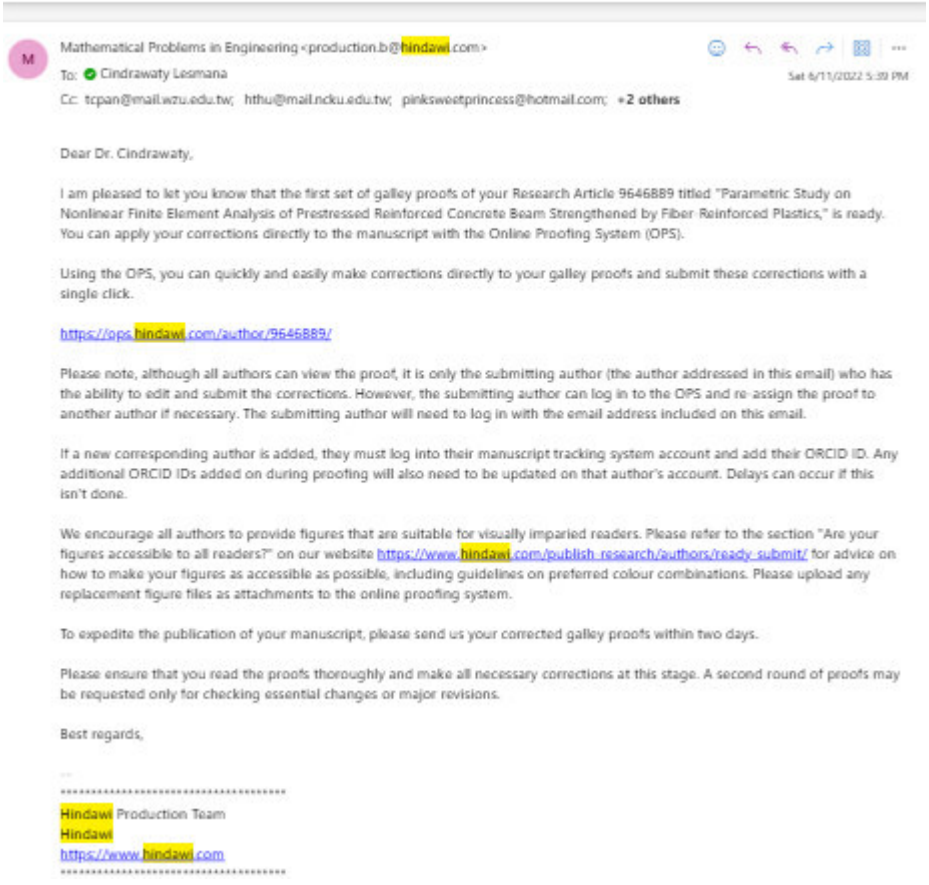
10. Galley Proofs (11-6-2022)

9646889: Galley Proofs



Mathematical Problems in Engineering <production.b@hindawi.com>

To: Cindrawaty Lesmana

Cc: tcpan@mail.wzu.edu.tw; hthu@mail.ncku.edu.tw; pinksweetprincess@hotmail.com; **+2 others**

Sat 6/11/2022 5:39 PM

Dear Dr. Cindrawaty,

I am pleased to let you know that the first set of galley proofs of your Research Article 9646889 titled "Parametric Study on Nonlinear Finite Element Analysis of Prestressed Reinforced Concrete Beam Strengthened by Fiber Reinforced Plastics," is ready. You can apply your corrections directly to the manuscript with the Online Proofing System (OPS).

Using the OPS, you can quickly and easily make corrections directly to your galley proofs and submit these corrections with a single click.

https://ops.hindawi.com/author/9646889/

Please note, although all authors can view the proof, it is only the submitting author (the author addressed in this email) who has the ability to edit and submit the corrections. However, the submitting author can log in to the OPS and re-assign the proof to another author if necessary. The submitting author will need to log in with the email address included on this email.

If a new corresponding author is added, they must log into their manuscript tracking system account and add their ORCID ID. Any additional ORCID IDs added on during proofing will also need to be updated on that author's account. Delays can occur if this isn't done.

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To expedite the publication of your manuscript, please send us your corrected galley proofs within two days.

Please ensure that you read the proofs thoroughly and make all necessary corrections at this stage. A second round of proofs may be requested only for checking essential changes or major revisions.

Best regards,

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https://www.hindawi.com

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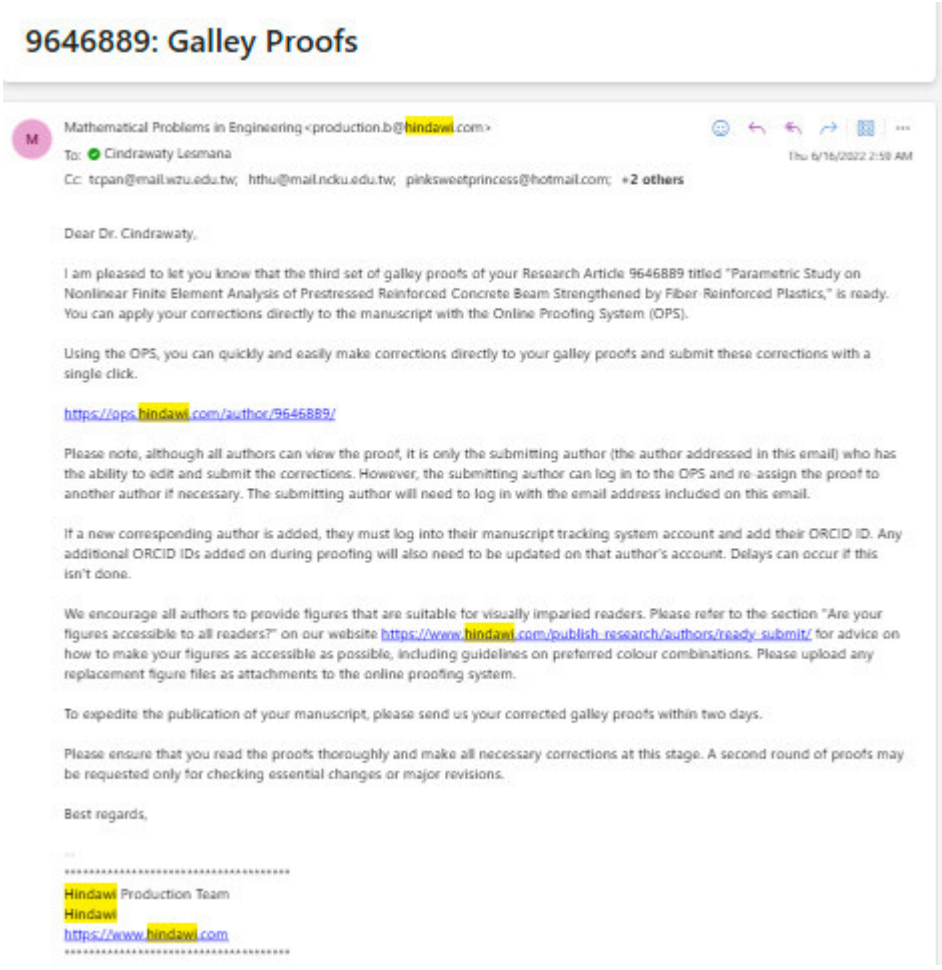
11. Galley Proofs Replied (16-6-2022)



9646889: Galley Proofs

Mathematical Problems in Engineering <production.b@hindawi.com>

To: Cindrawaty Lesmana

Thu 6/16/2022 2:59 AM

Cc: tcpan@mail.wzu.edu.tw; hthu@mail.ncku.edu.tw; pinksweetprincess@hotmail.com; **+2 others**

Dear Dr. Cindrawaty,

I am pleased to let you know that the third set of galley proofs of your Research Article 9646889 titled "Parametric Study on Nonlinear Finite Element Analysis of Prestressed Reinforced Concrete Beam Strengthened by Fiber Reinforced Plastics," is ready. You can apply your corrections directly to the manuscript with the Online Proofing System (OPS).

Using the OPS, you can quickly and easily make corrections directly to your galley proofs and submit these corrections with a single click.

https://ops.hindawi.com/author/9646889/

Please note, although all authors can view the proof, it is only the submitting author (the author addressed in this email) who has the ability to edit and submit the corrections. However, the submitting author can log in to the OPS and re-assign the proof to another author if necessary. The submitting author will need to log in with the email address included on this email.

If a new corresponding author is added, they must log into their manuscript tracking system account and add their ORCID ID. Any additional ORCID IDs added on during proofing will also need to be updated on that author's account. Delays can occur if this isn't done.

We encourage all authors to provide figures that are suitable for visually impaired readers. Please refer to the section "Are your figures accessible to all readers?" on our website https://www.hindawi.com/publish_research/authors/ready_submit/ for advice on how to make your figures as accessible as possible, including guidelines on preferred colour combinations. Please upload any replacement figure files as attachments to the online proofing system.

To expedite the publication of your manuscript, please send us your corrected galley proofs within two days.

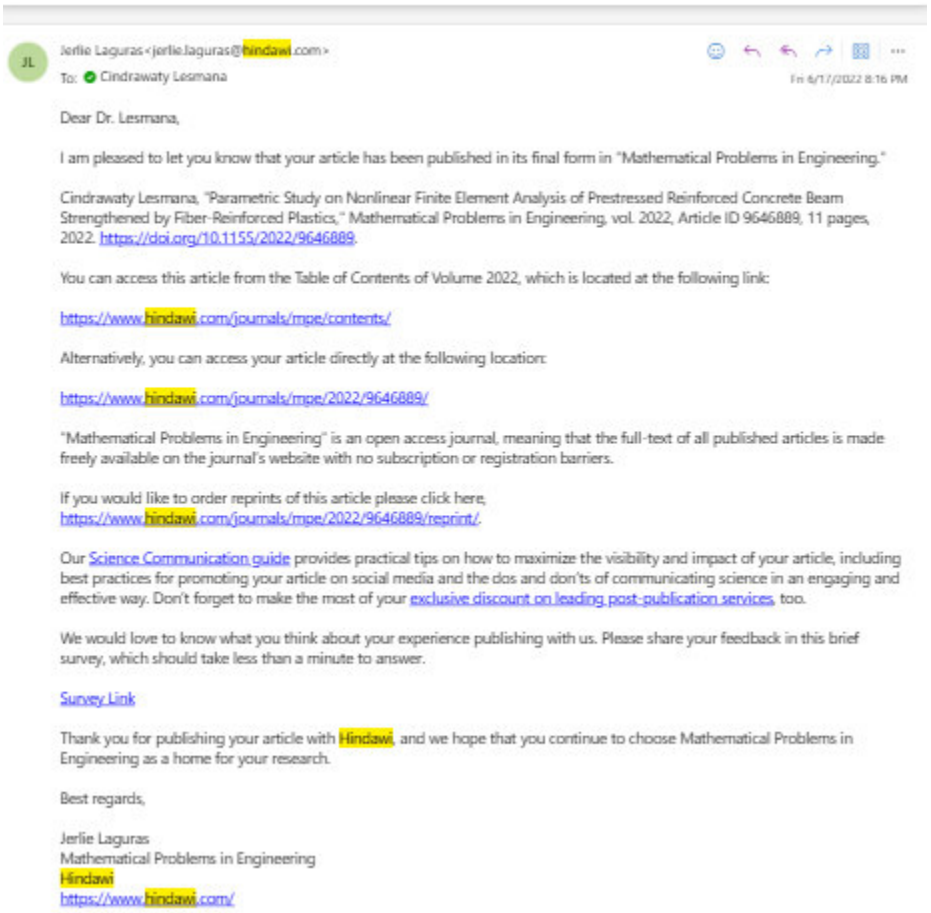
Please ensure that you read the proofs thoroughly and make all necessary corrections at this stage. A second round of proofs may be requested only for checking essential changes or major revisions.

Best regards,

Hindawi Production Team
Hindawi
https://www.hindawi.com

12. Article has been published (17-6-2022)

9646889: Your article has been published



JL

Jerlie Laguras <jerlie.laguras@hindawi.com>

To: Cindrawaty Lesmana

Fri 6/17/2022 8:16 PM

Dear Dr. Lesmana,

I am pleased to let you know that your article has been published in its final form in "Mathematical Problems in Engineering."

Cindrawaty Lesmana, "Parametric Study on Nonlinear Finite Element Analysis of Prestressed Reinforced Concrete Beam Strengthened by Fiber-Reinforced Plastics," Mathematical Problems in Engineering, vol. 2022, Article ID 9646889, 11 pages, 2022. https://doi.org/10.1155/2022/9646889.

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Thank you for publishing your article with Hindawi, and we hope that you continue to choose Mathematical Problems in Engineering as a home for your research.

Best regards,

Jerlie Laguras
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