

**Review Form 1.7**

Journal Name:	<b>Journal of Engineering Research and Reports</b>
Manuscript Number:	<b>Ms_JERR_115106</b>
Title of the Manuscript:	<b>Optimizing Hydrogen and Ammonia Injection Timing for Enhanced Mixture Formation in Internal Combustion Engines</b>
Type of the Article	<b>Original Research Article</b>

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**PART 1: Review Comments**

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p><b>Compulsory</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li>3. <b>Is the abstract of the article comprehensive?</b></li> <li>4. <b>Are subsections and structure of the manuscript appropriate?</b></li> <li>5. <b>Do you think the manuscript is scientifically correct?</b></li> <li>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> <li>1. <b>Yes, but must be improved</b></li> <li>2. <b>To the best of my knowledge, YES the title of the article suitable</b></li> <li>3. <b>YES, but "PFI" should be defined first before abbreviated and the optimization technique should be stated</b></li> <li>4. <b>The optimization method should be detailed. In text citation should be consistent. Selecting the optimum timing should be demonstrated in the work. Fig. 2, 4 resolutions should be increased to create a high-quality figure(s). Fig. 6&amp;7 numbers on the colour are pixelating when zoom. It must be improved.</b></li> <li>5. <b>Revise the introduction to make it concise and focused on the key aspects of the work on previous optimization techniques used in literature against the proposed one.</b></li> <li>6. <b>Replace all figures with high-resolution images</b></li> <li>7. <b>Include a flowchart and detailed description of the proposed method</b></li> <li>8. <b>Conduct a comparative analysis with existing methods</b></li> <li>9. <b>Include a comprehensive discussion section that addresses the pros and cons, limitations, and future directions</b></li> <li>10. <b>Provide experimental mathematical derivations and add novel algorithms for the optimization technique used to support the claim of novelty in the manuscript</b></li> <li>11. <b>Improve the clarity and organization of the paper's structure and presentation using the journal template.</b></li> <li>12. <b>References should be improved by using more recent papers from 2022 to date</b></li> </ol>	
<p><b>Minor</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></li> </ol>	<p>Yes, but must be improved</p>	
<p><b>Optional/General</b> comments</p>	<ul style="list-style-type: none"> <li>❖ The manuscripts carries some good information for scholarly, however it must be improved.</li> <li>❖ Authors must be consistent on the in text citations. One citation style must be used.</li> <li>❖ Some mathematical formulations(equations) should be provided.</li> <li>❖ <b>Authors must include a detailed discussion on how and why they were able to achieve better results in comparison to state-of-the-art techniques or already reported in the literature.</b></li> </ul>	

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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