

## Review Form 1.7

Journal Name:	<b>Journal of Engineering Research and Reports</b>
Manuscript Number:	<b>Ms_JERR_102508</b>
Title of the Manuscript:	<b>APPLICATION OF A MACHINE-AIDED TECHNIQUE FOR INSTANTANEOUS GAS LEAK DETECTION: A CASE STUDY OF REAL-TIME MODELING FOR JK-52 GAS PROCESSING PLANT</b>
Type of the Article	<b>Original Research Article</b>

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljerr.com/index.php/JERR/editorial-policy> )

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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> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>1. Yes, the manuscript is important for the scientific community since the authors showed how it is possible to detect gas leaks automatically and remotely, thanks to machine learning algorithms. They developed an algorithm to recognize events and predict future gas consumption by analyzing the volume and time of gas usage during a typical period of time. Using the data acquired, they established alarm thresholds.</p> <p>2. Yes, the title of the article suitable.</p> <p>3. Yes, the abstract of the article comprehensive.</p> <p>4. Yes, the subsections and structure of the manuscript appropriate.</p> <p>5. Yes, I think the manuscript is scientifically correct.</p> <p>6. Yes, the references sufficient and recent.</p> <p>Pages 16 and 17: Figures 4, 5 and 6 should be presented with a bigger size in the letters, to be readable.</p> <p>Page 19 and 20: You should give a link for the Jupyter Notebook program shown in there and the data contained in the file: <i>iESog.csv</i>; in order that your readers can reproduce the program. I want to give you a link that clearly shows: the programs the authors are studying, for you to have some idea about how to report the excellent and short material of the work you are publishing in this paper.</p> <p><a href="https://drive.google.com/drive/folders/1cjm5AppBWioEfEB0fdAQJajI9MGsMrp6?usp=sharing">https://drive.google.com/drive/folders/1cjm5AppBWioEfEB0fdAQJajI9MGsMrp6?usp=sharing</a></p> <p>Pages 20 and 21: It is not possible to read the 10 black rectangles shown in these pages. You need to improve the presentation of these figures.</p>	
<p><b>Minor</b> REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Yes, the language is appropriate. But I want to make some suggestion to improve the English. (The places are marked in yellow on the article, that I am sending back).</p> <p>Page 1: mitigating a gas leak problem. Page 2: and the majority of them go Page 2: should be well protected. Page 9: A NEW MACHINE LEARNING TECHNIQUE Page 9: CNN (The acronym should be defined) Page 11: HCR (The acronym should be defined) Page 11: MD (The acronym should be defined) Page 12: FPSO (The acronym should be defined) Page 13: helps o determine</p>	
<p><b>Optional/General</b> comments</p>		

### PART 2:

	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>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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**Reviewer Details:**

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