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PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 75725

Title: An IoT-Based Health Monitoring System for Early Detection of Cardiovascular Events During COVID-19 Pandemic

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05759722
Position: Peer Reviewer
Academic degree: PhD
Professional title: Research Scientist, Teaching Assistant
Reviewer's Country/Territory: Malaysia
Author's Country/Territory: Iran

Manuscript submission date: 2022-02-11
Reviewer chosen by: Dong-Mei Wang
Reviewer accepted review: 2022-05-12 03:25
Reviewer performed review: 2022-05-17 04:17
Review time: 5 Days

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Dami has presented a Health Monitoring System for Early Detection of CVD Events During COVID-19 Pandemic using IoT. The paper is interesting, and it is well-written. However, there are some limitations and still need a major improvement. 1. The abstract should be revised by adding some numerical results for the model evaluation measures. 2. In the research methodology section is not clear how the IoT technology has been used. The author should revise the methodology section by adding an illustration /framework shown the how IoT has been employed in the proposed research. 3. Section "3.2 Classification with LSTM and section 3.3 Classification with LSTM" have the same heading title. Please check and revise accordingly. 4. In section 3.3, the authors show the typical Structure of an LSTM memory unit, what about your own proposed LSTM model structure? What has been used to avoid vanishing gradient problems in LSTM? 5. Is there any optimization or hyperparameter selection method used? 6. A comparative analysis section must be added before the conclusion to compare the proposed models in this study with the related literature review contributions based on UCI cardiac arrhythmia benchmark dataset. 7. The reviewers checked the whole manuscript, and he could not find the limitations of the proposed system/framework.

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Reviewer's code: 05449265
Position: Peer Reviewer
Academic degree: PhD
Professional title: Senior Postdoctoral Fellow
Reviewer's Country/Territory: Finland
Author's Country/Territory: Iran

Manuscript submission date: 2022-02-11
Reviewer chosen by: Dong-Mei Wang
Reviewer accepted review: 2022-05-27 05:53
Reviewer performed review: 2022-06-06 15:33
Review time: 10 Days and 9 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

In this paper, the author is describing a model based on IoT to early diagnosis CVD during COVID-19 pandemic. The approach is interesting, and nicely assembled and written, however, major points have to be revised . 1- The abstract should be revised by adding concrete results that the author has found from the described model. 2- I agree with the first reviewer that this study is lacking of clear description of the methodology (where the data come from, the size of the population that the data come from, the author cited that there were data collected from different ages and genders: more specification about these parameters would be requested for better understanding whether there is age dependency CVD and COVID association) and how the IoT has been applied to test the hypothesis in this study. 3- The conclusion has to be revised because it lacks the significant outcomes of the study. Minor points: Section 3, there are two parts having the same title, please correct.