# PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 63983

**Title:** Emerging artificial intelligence applications in liver magnetic resonance imaging

**Reviewer's code:** 05180942

**Position:** Editorial Board

**Academic degree:** MD, MSc

**Professional title:** Associate Professor

**Reviewer's Country/Territory:** Turkey

**Author's Country/Territory:** United Kingdom

**Manuscript submission date:** 2021-02-06

**Reviewer chosen by:** Jin-Lei Wang

**Reviewer accepted review:** 2021-02-20 13:20

**Reviewer performed review:** 2021-02-24 18:03

**Review time:** 4 Days and 4 Hours

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| [ Y] Grade A: Excellent   [   ] Grade B: Very good   [   ] Grade C: Good  [   ] Grade D: Fair   [   ] Grade E: Do not publish |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

## SPECIFIC COMMENTS TO AUTHORS

This is a rather well-presented study. In the inspection made according to the Criteria Checklist; the presentation is overall clear and has no major mistake. The article explains in detail the developments in artificial intelligence in magnetic resonance imaging of the liver under different topics. In addition, there are detailed descriptions of current challenges and future directions under three topic title.    Conclusion Good    References good    Tables good    Figures Ok

# PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 63983

**Title:** Emerging artificial intelligence applications in liver magnetic resonance imaging

**Reviewer's code:** 05524921

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Associate Professor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** United Kingdom

**Manuscript submission date:** 2021-02-06

**Reviewer chosen by:** Jin-Lei Wang

**Reviewer accepted review:** 2021-02-23 05:57

**Reviewer performed review:** 2021-03-07 04:42

**Review time:** 11 Days and 22 Hours

| Scientific quality | [ ] Grade A: Excellent [ Y] Grade B: Very good [ ] 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) [ Y] Minor revision [ ] Major revision [ ] Rejection |
| Re-review | [ Y] Yes [ ] No |
| Peer-reviewer statements | Peer-Review: [ Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [ Y] No |

**SPECIFIC COMMENTS TO AUTHORS**

This study investigated the AI techniques (including ML and DL) used in liver imaging applications. The contents include both technical and clinical aspects, which is of wide interests. Some of my comments are listed below: 1.    The background should be more focusing on liver disease. Since there is plenty of papers relating to liver AI, I don't think it is necessary to include papers for brain, cardiac or breast imaging. The same problem need to be solved throughout the paper.   2.    Some important citations are missing in the ARTIFICIAL INTELLIGENCE ALGORITHMS section. The descriptions of some notations are too technical and tedious. I suggest to make the descriptions more clinical/disease related.   3.    The technical part is too basic for most of the researchers. It will be more interesting if the authors can discuss or comment on the differences of papers about similar works. 4.  AI based Registrations should also be reviewed.