

PEER-REVIEW REPORT

Name of journal: Artificial Intelligence in Medical Imaging

Manuscript NO: 66167

Title: Current Landscape and Potential future Applications of Artificial Intelligence in Medical Physics and Radiotherapy

Reviewer's code: 05545228

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2021-03-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-22 02:45

Reviewer performed review: 2021-03-22 03:24

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This is a review article for AI research and application to medical physics and radiotherapy. The paper is informative and well-written. Meanwhile, there are some weak points identified. It is expected to prepare a major revision fully addressing the following issues. 1, In a review-type paper, it is needed to introduce your survey methodology, such as the procedure of literature research, the databases used, the criteria of screening, etc. 2, The structure/organization of the content should be introduced at the end of the first section. 3, While you had a nice discussion, can you add more figures and tables to summarize your findings? 4, You may link discussion with more recent works as Integrated learning approach based on fused segmentation information for skeletal fluorosis diagnosis and severity grading. 5, In the conclusion, some timeline is expected regarding the progress of research and application. 6, I am missing a bit of the take-home messages. What are the key findings based on the reviewing? 7, Some future directions of scientific research and specific scientific problems should be proposed-What you listed in Figure 1 is not concrete enough. This will provide most value for some of the readers, maybe the PhD students who are looking for their research directions.

RE-REVIEW REPORT OF REVISED MANUSCRIPT**Name of journal:** Artificial Intelligence in Medical Imaging**Manuscript NO:** 66167**Title:** Current Landscape and Potential future Applications of Artificial Intelligence in Medical Physics and Radiotherapy**Reviewer's code:** 05545228**Position:** Peer Reviewer**Academic degree:** MD**Professional title:** Doctor**Reviewer's Country/Territory:** China**Author's Country/Territory:** China**Manuscript submission date:** 2021-03-22**Reviewer chosen by:** Jin-Lei Wang**Reviewer accepted review:** 2021-04-06 01:44**Reviewer performed review:** 2021-04-06 01:49**Review time:** 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS



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There is no other question.