

PEER-REVIEW REPORT

Name of journal: *Artificial Intelligence in Medical Imaging*

Manuscript NO: 74297

Title: Artificial Intelligence: Advances and New Frontiers in Medical Imaging

Provenance and peer review: Invited manuscript; externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03093768

Position: Editorial Board

Academic degree: MD

Professional title: Associate Professor, Chief Doctor, Doctor, Surgeon, Surgical Oncologist

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2021-12-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-21 13:01

Reviewer performed review: 2021-12-29 11:23

Review time: 7 Days and 22 Hours

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 Grade E: Do not publish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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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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

It is a great manuscript focus on AI application in medical imaging. As you can see from the title, the authors' topic is AI and medical imaging. The paper mainly summarizes the application progress and limitations of AI in radiological imaging medicine. Obviously, medical imagings are not only radiological imagings, but also endoscopic imagings or videos, and pathological imagings. If relevant discussions are not held at the same time, the subject headings should be appropriately qualified.

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Peer-review model: Single blind

Reviewer's code: 05775860

Position: Editorial Board

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2021-12-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-30 03:05

Reviewer performed review: 2021-12-31 07:31

Review time: 1 Day and 4 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The manuscript entitled “Artificial Intelligence: Advances and New Frontiers” reports a mini review that introduces the current progresses of artificial intelligence (AI), including both successes and limitations, in the field of radiology and provides opinions on AI for radiologists. Overall, the manuscript is well prepared and well written. I recommend publication of this manuscript.

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Reviewer's code: 05740520

Position: Peer Reviewer

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: India

Author's Country/Territory: United States

Manuscript submission date: 2021-12-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-30 03:36

Reviewer performed review: 2022-01-02 07:51

Review time: 3 Days and 4 Hours

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
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Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The paper is generally well written and structured. However, in my opinion, the article has some shortcomings in regards to some data analyses and text. More generally, I suggest focusing the manuscript on the scientific results rather than on the Innovation. Figure caption should have a brief title that describes the entire figure and the description of the figure is required in the text.