

PEER-REVIEW REPORT

Name of journal: Artificial Intelligence in Medical Imaging

Manuscript NO: 68783

Title: Artificial Intelligence in Ophthalmology and Visual Sciences: Current Implications and Future Directions

Reviewer's code: 03475636

Position: Peer Reviewer

Academic degree: FACP, MD

Professional title: Associate Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: Pakistan

Manuscript submission date: 2021-06-03

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-06-05 11:40

Reviewer performed review: 2021-06-05 12:12

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" 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



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SPECIFIC COMMENTS TO AUTHORS

“The two major subfields used of AI used in medicine are Machine Learning (ML) and Deep Learning (DL)” is well written. “when large amounts of data is required it has its own challenges” is not correct in grammar. “machines models” is not correct in grammar. Following recently published PRISMA Extension for Scoping Reviews (PRISMA-ScR): Checklist Ann Intern Med. 2018, there are several items that will help standardized this excellent Scoping Reviews - Introduction: Please summarize rationale/and add objectives of this review to help readers follow this review easier. - Before conclusion, if possible, please provide limitations of current evidence/scoping reviews and potential implications and/or next steps. -Need figures and tables to summarize

PEER-REVIEW REPORT

Name of journal: Artificial Intelligence in Medical Imaging

Manuscript NO: 68783

Title: Artificial Intelligence in Ophthalmology and Visual Sciences: Current Implications and Future Directions

Reviewer's code: 05084430

Position: Peer Reviewer

Academic degree: MD, MSc

Professional title: Doctor

Reviewer's Country/Territory: Portugal

Author's Country/Territory: Pakistan

Manuscript submission date: 2021-06-03

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-06-03 21:29

Reviewer performed review: 2021-06-13 22:17

Review time: 10 Days

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

SPECIFIC COMMENTS TO AUTHORS

Comprehensive and interesting state of the art review of Artificial Intelligence role and clinical applications in Ophtalmology.

PEER-REVIEW REPORT

Name of journal: Artificial Intelligence in Medical Imaging

Manuscript NO: 68783

Title: Artificial Intelligence in Ophthalmology and Visual Sciences: Current Implications and Future Directions

Reviewer's code: 05932402

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Pakistan

Manuscript submission date: 2021-06-03

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-06-04 07:51

Reviewer performed review: 2021-06-15 10:18

Review time: 11 Days and 2 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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
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



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SPECIFIC COMMENTS TO AUTHORS

Paper is well written although the analysis is quite limited. Maybe consider to extend the point of view by citing properly other fields of application. A good starting point would be: Piccialli, Francesco, et al. "A survey on deep learning in medicine: Why, how and when?." *Information Fusion* 66 (2021): 111-137. or maybe some recent work as: Piccialli, Francesco, et al. "Precision medicine and machine learning towards the prediction of the outcome of potential celiac disease." *Scientific Reports* 11.1 (2021): 1-10.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: Artificial Intelligence in Medical Imaging

Manuscript NO: 68783

Title: Artificial Intelligence in Ophthalmology and Visual Sciences: Current Implications and Future Directions

Reviewer's code: 03475636

Position: Peer Reviewer

Academic degree: FACP, MD

Professional title: Associate Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: Pakistan

Manuscript submission date: 2021-06-03

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-07-28 11:19

Reviewer performed review: 2021-07-28 11:24

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 type="checkbox"/> Grade B: Minor language polishing <input checked="" 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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Revision of the English language is still needed. There are some parts of the paper where it is quite difficult to make sense of some sentences English edit will help to improve the quality of the manuscript.