

PEER-REVIEW REPORT

Name of journal: *Artificial Intelligence in Cancer*

Manuscript NO: 75772

Title: Building and evaluating an AI algorithm: A practical guide for practicing oncologists

Provenance and peer review: Unsolicited manuscript; externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05382551

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: India

Manuscript submission date: 2022-02-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-15 17:07

Reviewer performed review: 2022-02-15 17:14

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 Grade E: Do not publish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 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



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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
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SPECIFIC COMMENTS TO AUTHORS

The article is within the scope of the journal. The topic is interesting. It is well written and reads smoothly. However, the item cannot be accepted in its current state: a) Given that it is a review, it should be indicated what type of review has been carried out, sources used, search criteria as well as other data that characterize the bibliographic search carried out as well as the analysis work. b) The groups of articles detected should be more clearly outlined. A section should be devoted to each thematic group of articles found. c) It would be necessary to add a discussion section explaining the progress and limitations of the review work carried out. d) It would be necessary to indicate a section of conclusions where the work carried out is synthesized as well as a set of lines of future work.

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Reviewer's code: 00505755

Position: Editorial Board

Academic degree: PhD

Professional title: Senior Research Fellow

Reviewer's Country/Territory: Japan

Author's Country/Territory: India

Manuscript submission date: 2022-02-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-15 01:40

Reviewer performed review: 2022-02-16 07:29

Review time: 1 Day and 5 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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

This study demonstrates application of AI. Summary of tasks and classification of tasks (Figure 4) may be explained more in detail.

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Provenance and peer review: Unsolicited manuscript; externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05196071

Position: Peer Reviewer

Academic degree: N/A

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2022-02-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-14 14:49

Reviewer performed review: 2022-02-18 15:42

Review time: 4 Days

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 type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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
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SPECIFIC COMMENTS TO AUTHORS

1. The title of this article is: Building and evaluating an AI algorithm: A practical guide for practicing oncologists. However, the article does not explicitly mention which AI algorithm was built and evaluated. 2. In the “What is AI: Basic Principles” section, the author provides an overview of AI, It is recommended that the algorithm be more prominent here. 3. In the “Radiomics and Radiogenomics : Shift towards Personalised patient care” section: “Studies have shown that these may be successfully correlated to outcomes such as patient survival and genomic mutations [13]”. I suggest listing more literature. 4. In the “Common Applications of AI in Oncology” section: The author discusses the application of AI in Oncology "Classification, Detection, Segmentation and Quantification, Image generation, NLP...", but there is still a lack of evaluation of the advantages and disadvantages of various algorithms. 5. There is no conclusion section in the article. 6. Inappropriate use of punctuation and multiple spaces in the article. 7. The typography of the article leads to difficulties in reading.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *Artificial Intelligence in Cancer*

Manuscript NO: 75772

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Provenance and peer review: Unsolicited manuscript; externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05382551

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: India

Manuscript submission date: 2022-02-14

Reviewer chosen by: Ji-Hong Liu

Reviewer accepted review: 2022-04-12 11:37

Reviewer performed review: 2022-04-12 11:42

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	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

The paper can be accepted in current form

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *Artificial Intelligence in Cancer*

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Title: Building and evaluating an AI algorithm: A practical guide for practicing oncologists

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Reviewer's code: 00505755

Position: Editorial Board

Academic degree: PhD

Professional title: Senior Research Fellow

Reviewer's Country/Territory: Japan

Author's Country/Territory: India

Manuscript submission date: 2022-02-14

Reviewer chosen by: Ji-Hong Liu

Reviewer accepted review: 2022-04-12 07:52

Reviewer performed review: 2022-04-13 05:39

Review time: 21 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 checked="" type="checkbox"/> Grade A: Priority publishing <input 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	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

This minireview describes application of AI for educational purpose. Authors have responded to the reviewers' comments.