

PEER-REVIEW REPORT

Name of journal: Artificial Intelligence in Gastroenterology

Manuscript NO: 63530

Title: Biophysics inspired artificial intelligence for colorectal cancer characterization

Reviewer's code: 04022823

Position: Peer Reviewer

Academic degree: FEBG, MD, MSc

Professional title: Consultant Physician-Scientist, Doctor

Reviewer's Country/Territory: Greece

Author's Country/Territory: Ireland

Manuscript submission date: 2021-01-28

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2021-04-02 05:09

Reviewer performed review: 2021-04-05 13:03

Review time: 3 Days and 7 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 Grade E: Do not publish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 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

SPECIFIC COMMENTS TO AUTHORS

This is a narrative report on artificial intelligence based on biophysics for the characterization of colonic polyps and surgical prognostication of anastomotic fields. Biophysics under the utilization of fluorescent substances for pattern recognition is an interesting thought though in an experimental phase. It would be preferable if there was a paragraph underlying the limitations of this method apart from the already presented limitations of the deep learning. Please delineate the term endolaparoscopy between the gastrointestinal and surgical partition. It seems that is given more attention to the surgical exploration and prognostication. Please be more detailed about the application in gastrointestinal endoscopy.

PEER-REVIEW REPORT

Name of journal: Artificial Intelligence in Gastroenterology

Manuscript NO: 63530

Title: Biophysics inspired artificial intelligence for colorectal cancer characterization

Reviewer's code: 04089095

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Ireland

Manuscript submission date: 2021-01-28

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2021-04-04 00:40

Reviewer performed review: 2021-04-20 03:01

Review time: 16 Days and 2 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 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

This manuscript reviews the application of AI in gastrointestinal surgery and gastroenterology in recent years from the aspects of gastrointestinal intervention, biophysics, NIR endolaparoscopy and NIR-ICG Tissue Perfusion. The advantages and development direction of biophysics-inspired AI are discussed at the end of this paper. However, the content of the article does not match the title because of little description of Colorectal Cancer Characterisation.