

## PEER-REVIEW REPORT

**Name of journal:** *Artificial Intelligence in Gastroenterology*

**Manuscript NO:** 74641

**Title:** Colorectal Cancer :Artificial Intelligence and Its Role in Surgical Decision Making

**Provenance and peer review:** Invited manuscript; externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 00058340

**Position:** Editor-in-Chief

**Academic degree:** DSc, MD, PhD

**Professional title:** Professor

**Reviewer's Country/Territory:** United States

**Author's Country/Territory:** India

**Manuscript submission date:** 2021-12-30

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-01-02 19:58

**Reviewer performed review:** 2022-01-03 02:02

**Review time:** 6 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

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

## SPECIFIC COMMENTS TO AUTHORS

In this minireview the authors the authors elaborate on how artificial intelligence can assist in surgical decision in colorectal cancer. The topic is of general interest and provides a brief overview of the topic for the general audience. The Artificial intelligence (AI) has been shown to be useful in surveillance, diagnosis, treatment and also in the follow-up with accuracy in several malignancies, but its application for surgical decision-making in CRC is to be establish and substantiated. Theoretically, it may assist in surgical decision when the clinical data, radiological and laboratory information are provided and fed into the computer. Importantly, it may guide a surgical treatment in an individualized manner. AI can provide dentification of surrounding structure, determines the margin, the level of resection and for feasibility of an anastomosis. Table 2 provides good examples of AI usefulness in differentiating normal epithelium from abnormal or malignant cells. Overall, the paper provides indeed a “minireview” that should stimulate interest and future investigation in this field.

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**Peer-review model:** Single blind

**Reviewer's code:** 05758135

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** India

**Manuscript submission date:** 2021-12-30

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-01-14 07:58

**Reviewer performed review:** 2022-01-16 02:44

**Review time:** 1 Day and 18 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** bpgoffice@wjgnet.com  
<https://www.wjgnet.com>

statements

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

#### **SPECIFIC COMMENTS TO AUTHORS**

This manuscript summarizes the current status of AI applications in colorectal diseases and future prospects, including comparison of AI applications in other diseases. The content is fine and provides sufficient current information to the readers. However, there are some problems with the format. In terms of format, information such as Title, Abstract, Author, Correspondence Author, Sponsorship, COI information, etc. are not be found in the manuscript file. And, although minor, the following points should also be noted. - There is a mixture of British and American English in the spelling of some words. - There are two or more spaces between words in several places. - In Table 1, line 4, "vision" seems to be an error for "vision". - What is the meaning of "S.I no" in Table 2? - In Table 3, there are no 2 or 3 in "S.I no".

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**Peer-review model:** Single blind

**Reviewer's code:** 05832146

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Research Fellow

**Reviewer's Country/Territory:** Taiwan

**Author's Country/Territory:** India

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**Reviewer chosen by:** AI Technique

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**Reviewer performed review:** 2022-01-18 06:26

**Review time:** 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

**statements**Conflicts-of-Interest: [ ☐ ] Yes [ ☒ ] No**SPECIFIC COMMENTS TO AUTHORS**

As the author described in this article, Artificial intelligence (AI) has been reported to be useful in surveillance, diagnosis, treatment and also in the follow-up with accuracy in several malignancies. However, it is still evolving and yet to be established in surgical decision-making in CRC. I think this article can provide information and help readers to discover a route for further research. I have some suggestion as the following, The AI shown the huge potential and has been enormous applied to medical territory, but the AI applied into the reality practice, especially, provide the decision making or remedy assist in real time condition is still lack. Might the author can describe more information about this topic, which can enhance the interesting and the readability of the review article.

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**Peer-review model:** Single blind

**Reviewer's code:** 05737072

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** Iran

**Author's Country/Territory:** India

**Manuscript submission date:** 2021-12-30

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-01-20 09:48

**Reviewer performed review:** 2022-01-20 09:50

**Review time:** 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

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

## SPECIFIC COMMENTS TO AUTHORS

1. Please add the Abstract and Keywords to the start of paper 2. The implications of the results should be discussed in more detail. The authors should provide managerial insights based on the output. 3. 21. Improve the literature review. Add several pieces of research in 2019 and complete table 1. Moreover, the following references can be used: Designing a sustainable closed-loop supply chain network of face masks during the COVID-19 pandemic: Pareto-based algorithms. *Journal of Cleaner Production*, 130056. Developing a sustainable operational management system using hybrid Shapley value and Multimooora method: case study petrochemical supply chain. *Environment, Development and Sustainability*, 1-30. A Covering Tour Approach for Disaster Relief Locating and Routing with Fuzzy Demand. *International Journal of Intelligent Transportation Systems Research*, 18(1), 140-152. Sustainable supply chain network design using products' life cycle in the aluminum industry. *Environmental Science and Pollution Research*, 1-25. Hybrid artificial intelligence and robust optimization for a multi-objective product portfolio problem Case study: The dairy products industry. *Computers & industrial engineering*, 137, 106090. A comprehensive model of demand prediction based on hybrid artificial intelligence and metaheuristic algorithms: A case study in dairy industry. An integrated approach based on artificial intelligence and novel meta-heuristic algorithms to predict demand for dairy products: a case study. *Network: Computation in Neural Systems*, 1-35.



## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Peer-review model:** Single blind

**Reviewer's code:** 05737072

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** Iran

**Author's Country/Territory:** India

**Manuscript submission date:** 2021-12-30

**Reviewer chosen by:** Ji-Hong Liu

**Reviewer accepted review:** 2022-02-10 11:11

**Reviewer performed review:** 2022-02-10 11:15

**Review time:** 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Peer-reviewer statements</b>	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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Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** bpgoffice@wjgnet.com  
<https://www.wjgnet.com>

#### **SPECIFIC COMMENTS TO AUTHORS**

The authors did not revise the paper in a good way. The following comments should be performed exactly: Improve the literature review. Add several pieces of research in 2019 and complete table 1. Moreover, the following references can be used: Designing a sustainable closed-loop supply chain network of face masks during the COVID-19 pandemic: Pareto-based algorithms. *Journal of Cleaner Production*, 130056. Developing a sustainable operational management system using hybrid Shapley value and Multimoor method: case study petrochemical supply chain. *Environment, Development and Sustainability*, 1-30. A Covering Tour Approach for Disaster Relief Locating and Routing with Fuzzy Demand. *International Journal of Intelligent Transportation Systems Research*, 18(1), 140-152. Sustainable supply chain network design using products' life cycle in the aluminum industry. *Environmental Science and Pollution Research*, 1-25. Hybrid artificial intelligence and robust optimization for a multi-objective product portfolio problem Case study: The dairy products industry. *Computers & industrial engineering*, 137, 106090. A comprehensive model of demand prediction based on hybrid artificial intelligence and metaheuristic algorithms: A case study in dairy industry. An integrated approach based on artificial intelligence and novel meta-heuristic algorithms to predict demand for dairy products: a case study. *Network: Computation in Neural Systems*, 1-35.