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PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 68624

Title: Deep learning driven colorectal lesion detection in gastrointestinal endoscopic and

pathological imaging

Reviewer's code: 05759722 Position: Peer Reviewer Academic degree: PhD

Professional title: Research Scientist, Teaching Assistant

Reviewer's Country/Territory: Malaysia

Author's Country/Territory: China

Manuscript submission date: 2021-06-15

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-07-04 04:49

Reviewer performed review: 2021-07-04 14:55

Review time: 10 Hours

Scientific quality	[] Grade A: Excellent [] Grade B: Very good [Y] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish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



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SPECIFIC COMMENTS TO AUTHORS

The authors in this work have proposed an interesting review on deep learning to predict colorectal lesions based on image analysis application. The manuscript is well written and however is still need some improvement. 1- The organization or structure paragraph at the end of the introduction is missing. 2- In Application Principle of Deep Learning section, there are only two sections deep learning origin and development of deep learning in general and CNN. Why only CNN was discussed and reviewed? What about other deep learning methods such as RNN, LSTM, GRU, Bi-LSTM and DCNN. 3- Also, in Figure 2, the filed development its focus only on the Origin and development of convolutional neural network and the current progress at the top of your diagram not explained. Please explain what has been done and what is left for further research and what is the research gab that need to be fulfilled. Therefore, if you are only focusing on CNN in this review paper, please consider revising your title or state this clearly on your 4- In table 1, it will be good if the authors list down also the limitations of the pervious studies and the drawback of the deep learning methods used. 5- In page 4, section Application of Deep Learning to Image Analysis in the Prediction of Colorectal Lesions, the subsection repeated twice "Computer-aided detection of colonic lesions". A section before table 1 and other after table 1. 6- In table 2, it will be good if the authors list down also the limitations of the previous studies and the drawback of the deep 7- Authors must add one section to conclude their study learning methods used. findings and also highlight their current study limitation and their own future research directions.



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Professional title: Academic Fellow, Research Scientist

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Author's Country/Territory: China

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SPECIFIC COMMENTS TO AUTHORS

This is a good review paper to lay foundation of future deep learning application to predict, diagnose and treat colorectal lesions using future technology.