



PEER-REVIEW REPORT

Name of journal: Artificial Intelligence in Gastrointestinal Endoscopy

Manuscript NO: 56976

Title: Application of convolutional neural network (CNN) for computer-aided detection and diagnosis (CADaD) in gastrointestinal pathology; a simplified approach

Reviewer's code: 02372281

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Assistant Professor, Professor

Reviewer's Country/Territory: South Korea

Author's Country/Territory: United Kingdom

Manuscript submission date: 2020-06-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-06-01 23:13

Reviewer performed review: 2020-06-02 14:00

Review time: 14 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 Grade E: Do not publish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 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 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="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 brief manuscript tells us the concept of AI, including ML, DL, and CNN, and introduced 3 recent AI studies in the endoscopy. This content seems to be helpful for readers to understand the AI in the GI field. Recently, many AI papers have been published in many high0impact journals. However, the authors did not state them.



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Title: Application of convolutional neural network (CNN) for computer-aided detection and diagnosis (CADaD) in gastrointestinal pathology; a simplified approach

Reviewer's code: 03725575

Position: Editorial Board

Academic degree: FAASLD, MBChB, MD

Professional title: Chief Doctor, Chief Physician, Director, Doctor, Full Professor, Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: United Kingdom

Manuscript submission date: 2020-06-01

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2020-06-10 04:43

Reviewer performed review: 2020-06-14 21:51

Review time: 4 Days and 17 Hours

Scientific quality	<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
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
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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

Nice editorial and well written. I like the simplified approach of CNN. The author illustrated the steps of CNN utilisation and shed some light on some of the studies that showed artificial intelligence improve the diagnosis and detection of GI pathology such as polyps.



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Title: Application of convolutional neural network (CNN) for computer-aided detection and diagnosis (CADaD) in gastrointestinal pathology; a simplified approach

Reviewer's code: 04254033

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: United Kingdom

Manuscript submission date: 2020-06-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-06-03 05:46

Reviewer performed review: 2020-06-15 07:55

Review time: 12 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 type="checkbox"/> Grade D: Fair <input checked="" 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 type="checkbox"/> Grade C: A great deal of language polishing <input checked="" 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="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 is a short review manuscript, it includes four short parts: Introduction, A review of CNNs, CNNs in GI Endoscopy and Conclusion. As I see it, this is more like a reading note than a professional academic paper. Major Issues: 1. This manuscript just introduced some simple background information of deep learning and several related papers about GI Endoscopy that used CNNs. And then it praised AI technologies. However, this submission lacks substance and novelty. 2. If you want to review some related techniques, you should give detailed and comprehensive analysis and comparison about these new or classical papers. Although you called these four related papers as "a few published GI endoscopy articles on AI last 3 years", we can find that these papers are not known and expert papers in this direction. Furthermore, they were published in 2018 or 2017, so it is not accurate in calling them "last 3 years". 3. The language of this submission should be further improved to become an academic paper.



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Title: Application of convolutional neural network (CNN) for computer-aided detection and diagnosis (CADaD) in gastrointestinal pathology; a simplified approach

Reviewer's code: 05121879

Position: Editorial Board

Academic degree: MBBS, MD

Professional title: Assistant Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: United Kingdom

Manuscript submission date: 2020-06-01

Reviewer chosen by: Jin-Lei Wang

Reviewer accepted review: 2020-06-11 22:18

Reviewer performed review: 2020-06-15 21:07

Review time: 3 Days and 22 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 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
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SPECIFIC COMMENTS TO AUTHORS

This is a very interesting, concise article regarding the use and basics of artificial intelligence in gastroenterology. General comments: 1. I commend the effort by the authors in trying to evaluate the utilization and application of artificial intelligence (AI) in gastroenterology. 2. Even though this is a well thought out manuscript there are a few issues to be addressed: Major Comments: 1. Introduction: Please provide refence for the statement “This is no doubt that this could result in a reduction in time-to-treatment and reduce costs.” Are there any studies that show that use of AI leads to reduced cost? Minor Comments: 1. Consider rephrasing the first sentence as follows: “The role of artificial intelligence (AI), specifically machine learning (ML) or deep learning (DL), in medicine is evolving and studies are surfacing beholding its advantages in performing GI endoscopy” to “The role of artificial intelligence (AI), specifically machine learning (ML) or deep learning (DL), in medicine is evolving and studies have surfaced beholding its advantages in performing GI endoscopy.” 2. Replace “This is no doubt that this could result in a reduction in time-to-treatment and reduce costs” by “There is no doubt that this could result in a reduction in time-to-treatment and reduce costs”