Understanding Deep Learning in Capsule Endoscopy: Can Artificial I

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Application of Artificial Intelligence in Capsule ...
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6283750

Abstract. Unlike **wired endoscopy**, **capsule endoscopy** requires additional time for a **clinical** specialist to review the operation and examine the lesions. To reduce the tedious review time and increase the accuracy of **medical examinations**, various approaches have been reported based on **artificial intelligence for computer-aided diagnosis**.

Cited by: 7   Author: Youngbae Hwang, Junseok Park, Yun Jeo...
Publish Year: 2018

Utilizing artificial intelligence in endoscopy: a ...
https://www.tandfonline.com/doi/abs/10.1080/17474124.2020.1779058

(2020). Utilizing **artificial intelligence** in **endoscopy**: a clinician's guide. Expert Review of Gastroenterology & Hepatology: Vol. 14, No. 8, pp. 689-706.

Cited by: 2   Author: Ken Namikawa, Toshiaki Hirasawa, Toshi...
Publish Year: 2020

Artificial intelligence for endoscopy
https://www.wjgnet.com/2308-3840/full/v7/i7/343.htm ▾

In recent times, there has been progressive development in **artificial intelligence** (AI) following the introduction of **deep learning** in the **medical field** including **gastroenterology and endoscopy**. Most of the reported studies were based on retrospective data.

Author: Hiroyuki Imaeda, Yoshikazu Tsuzuki, ...   Publish Year: 2019

Reporting guidelines for clinical trial reports for ...
https://www.nature.com/articles/s41591-020-1034-x

A search was performed on 13 May 2019 using the terms 'artificial intelligence', 'machine learning' and 'deep learning' to identify existing **clinical** trials for AI interventions listed ...

Cited by: 1   Author: Xiaoxuan Liu, Samantha Cruz Rivera, Dav...
Publish Year: 2020

PS-DeVCEM: Pathology-sensitive deep learning model for ...
https://www.sciencedirect.com/science/article/pii/S1077314220301053

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https://www.sciencedirect.com/science/article/pii/S0016510720341936

Oct 01, 2020 · **Deep learning** is an innovative algorithm based on neural networks. **Wireless capsule endoscopy** (WCE) is considered the criterion standard for detecting small-bowel diseases. **Manual examination** of WCE is time-consuming and can benefit from automatic detection using **artificial intelligence** (AI).

Cited by: 3   Author: Shelly Soffer, Shelly Soffer, Eyal Klang, E…
Publish Year: 2020

Artificial intelligence for endoscopy
https://www.wjgnet.com/2308-3840/full/v7/i7/343.htm ▾

In recent times, there has been progressive development in **artificial intelligence** (AI) following the introduction of **deep learning** in various fields. As expected, AI has been introduced into the medical field, and many papers have reported on its use in different specialties in the medical field, including gastroenterology and **endoscopy** [1] .

Author: Hiroyuki Imaeda, Yoshikazu Tsuzuki, …   Publish Year: 2019

Utilizing artificial intelligence in endoscopy: a ...
https://www.tandfonline.com/doi/abs/10.1080/17474124.2020.1779058

Artificial intelligence (AI) that surpasses human ability in image recognition is expected to be applied in the field of gastrointestinal endoscopes. Accordingly, its research and development (R &D) is being actively conducted. With the development of endoscopic diagnosis, there is a shortage of specialists who can perform high-precision **endoscopy**.

Cited by: 2   Author: Ken Namikawa, Toshiaki Hirasawa, Toshi…
Publish Year: 2020

(PDF) Overview of Deep Learning in Gastrointestinal Endoscopy
https://www.researchgate.net/publication/330323148...

Jan 11, 2019 · The application of **artificial intelligence** (AI), especially machine **learning** or **deep learning** (DL), is advancing at a rapid pace. The need for increased accuracy at …
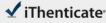
Artificial intelligence and upper gastrointestinal ...
https://onlinelibrary.wiley.com/doi/full/10.1111/den.13317

Dec 14, 2018 · As **deep learning** (DL) technology has rapidly gained attention as an optimal **machine**

Name of Journal: *Artificial Intelligence in Gastrointestinal Endoscopy*

Manuscript NO: 59667

Manuscript Type: MINIREVIEWS

Understanding deep learning in capsule endoscopy: Can artificial intelligence enhance clinical practice?

Atsawarungruangkit A *et al*. Deep learning in capsule endoscopy

Amporn Atsawarungruangkit, Yousef Elfanagely, Akwi W Asombang, Abbas Rupawala, Harlan G Rich

Abstract

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Oct 01, 2020 · **Deep learning** is an innovative algorithm based on neural networks. **Wireless capsule endoscopy** (WCE) is considered the criterion standard for detecting small-bowel diseases. **Manual examination** of WCE is time-consuming and can benefit from automatic detection using **artificial intelligence** (AI).

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Cited by: 2　　　Author: Ken Namikawa, Toshiaki Hirasawa, Tosh...
Publish Year: 2020

Deep learning in medical image analysis: A third eye for ...

https://www.sciencedirect.com/science/article/pii/S2468785519301582

Sep 01, 2019 · 1.1. **Artificial intelligence** and image analysis. **Artificial intelligence** (AI) in medicine