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https://europepmc.org/article/PMC/PMC7968127 ▾

Jan 01, 2021 · Automatic polyp detection and **segmentation systems based on Deep Learning** (DL) have a high overall performance in both **colonoscopy** images and **colonoscopy** videos , . Ideally, the...

Deep Learning Localizes and Identifies Polyps in Real Time ...
https://www.gastrojournal.org/article/S0016-5085(18)34659-6/fulltext

Jun 18, 2018 · We tested the ability of **computer-assisted** image **analysis** using convolutional neural networks (CNNs; a **deep learning** model for image analysis) to improve **polyp** detection, a surrogate ...

Cited by: 253   Author: Gregor Urban, Priyam Tripathi, Talal Alka...
Publish Year: 2018

[PDF] Computer aided polyp detection in CT colonography
https://folk.ntnu.no/kiss/papers/ThesisGK.pdf

the structure of the **colon**, the correct way of reading colonographic images and finding **polyps** (a task that seemed impossible at first). Didier, I could always rely on your kind help, each time I needed a...

Real-time detection of colon polyps during colonoscopy ...
https://www.nature.com/articles/s41598-020-65387-1

May 20, 2020 · Automatic polyp detection **systems** using **deep-learning** methods have been proposed for detecting **colorectal polyps** in real-time **colonoscopy** videos ...

Cited by: 5   Author: Ji Young Lee, Jinhoon Jeong, Eun Mi Son...
Publish Year: 2020

(PDF) Computer-Aided Diagnosis Based on Convolutional ...
https://www.researchgate.net/publication/321933558...

We aimed to develop a **computer-aided** diagnostic system (CAD) **for predicting colorectal polyp** histology using **deep-learning** technology and to **validate** its performance.

Deep Learning Techniques for Real Time Computer-Aided ...
https://link.springer.com/chapter/10.1007/978-3-030-23946-6_27 ▾

Jun 25, 2019 · The PhD project presented here aims develop a real-time **colon polyp** detection, localization and classification **system based on Deep Learning** techniques. The creation of this syst...

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[PDF] Comparative Validation of Polyp Detection Methods in Video ...
refbase.cvc.uab.es/files/BTS2017.pdf
validation of **computer-aided** support **systems** for colonoscopy, aimed to help clinicians in all stages of CRC diagnosis. A significant part of this effort has been focused on **computer assisted polyp** detection. As it is indicated in [21], cooperation between technologists and clinicians is essential to develop

Deep Learning Localizes and Identifies Polyps in Real Time ...
https://www.gastrojournal.org/article/S0016-5085(18)34659-6/fulltext
Jun 18, 2018 · We tested the ability of **computer-assisted** image **analysis** using convolutional neural networks (CNNs; a **deep learning** model for image analysis) to improve **polyp** detection, a surrogate of ADR. **Deep Learning** Localizes and Identifies **Polyps** in Real Time With 96% Accuracy in Screening Colonoscopy - Gastroenterology
Cited by: 303   **Author:** Gregor Urban, Priyam Tripathi, Talal Alkayal...
Publish Year: 2018

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How is computer aided detection used in colonoscopy?   ⌄

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https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8182250
Handcrafted AI algorithms have been surpassed and are going to be replaced by convolutional neural networks (CNN) with the ability to perform real-time **polyp** detection. CNN is a **deep learning** algorithm, which can take in an input image, assign importance (learnable weights and biases) to various aspects/objects in the image, and differentiate one from the other.
Cited by: 1   **Author:** Sebastian Manuel Milluzzo, Paola Cesaro, ...
Publish Year: 2021

Computer aided detection for laterally spreading tumors ...
https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0231880 ▾
Apr 21, 2020 · Background Evidence has shown that **deep learning** computer aided detection (CADe) **system** achieved high overall detection accuracy for **polyp** detection during colonoscopy. Aim The detection performance of CADe **system** on non-polypoid laterally spreading tumors (LSTs) and sessile serrated adenomas/**polyps** (SSA/Ps), with higher risk for malignancy transformation and miss rate, has ...
Cited by: 6   **Author:** Guanyu Zhou, Xun Xiao, Mengtian Tu, Peixi ...
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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 64345

Manuscript Type: ORIGINAL ARTICLE

Clinical and Translational Research

Establishment and validation of a computer-assisted colonic polyp localization system based on deep learning

Zhao SB *et al*. Establishment and validation of CADe for polyp

Sheng-Bing Zhao, Wei Yang, Shu-Ling Wang, Peng Pan, Run-Dong Wang, Xin Chang, Zhong-Qian Sun, Xing-Hui Fu, Hong Shang, Jian-Rong Wu, Li-Zhu Chen, Jia Chang, Pu Song, Ying-Lei Miao, Shui-Xiang He, Lin Miao, Hui-Qing Jiang, Wen Wang, Xia Yang, Yuan-Hang Dong, Han Lin, Yan Chen, Jie Gao, Qian-Qian Meng, Zhen-Dong Jin, Zhao-Shen Li, Yu Bai

Abstract

Establishment and validation of a computer-assisted colonic polyp ✕ ⌨ 🎤 🔍

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Development of a computer-aided detection system for ...
https://pubmed.ncbi.nlm.nih.gov/32745531

We aimed to develop an AI-assisted **polyp** detection **system** and to validate its performance using a large colonoscopy video database designed to be publicly accessible. Methods: To develop the **deep learning-based** AI **system**, 56,668 independent colonoscopy images were obtained from 5 centers for use as training images. To validate the trained AI ...

Cited by: 14   Author: Masashi Misawa, Shin-ei Kudo, Yuichi M...
Publish Year: 2020

Computer aided detection for laterally spreading tumors ...
https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0231880 ▾

Apr 21, 2020 · The real-time automatic polyp detection system was developed on a **deep learning** architecture, which was previously **validated** to have a **per-image sensitivity** of 94.38%, per-image specificity of 95.92% and an area under the receiver operating characteristic curve of 0.984 on consecutive colonoscopy images. In addition, the algorithm has a per-polyp sensitivity of 100.00% (per ...

Cited by: 7   Author: Guanyu Zhou, Xun Xiao, Mengtian Tu, Pei...
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Feedback

Gastric polyp detection in gastroscopic images using deep ...
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8081222

Apr 28, 2021 · had applied the YOLO network to detect **colonic polyps** in real-time. had used a region-based CNN for the automatic detection of **colonic polyps** in the images and videos. had used a real-time object detector **based** on YOLO to detect **colonic polyps**. There are also some other **colonic**