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Application of convolutional neural networks for computer-aided detection and diagnosis in gastrointestinal pathology: A simplified exposition for an endoscopist

Viswanath YKS *et al.* Convolution neural network in identifying GI pathology at endoscopy

Yirupaiahgari KS Viswanath, Sagar Vaze, Richie Bird

Abstract

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Computer-aided detection (CAD) is used for the diagnosis and differential diagnosis of human diseases. 7 Recently, convolutional neural network (CNN) systems using artificial intelligence have been applied to detect colorectal cancer 8 and classify breast histopathologic images. 9 CNNs have remarkable visual recognition capabilities, with ...

Cited by: 19　Author: Yan Zhu, Qiu-Cheng Wang, Mei-Dong Xu,...
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Application of convolutional neural network in the diagnosis of the invasion depth of gastric cancer based on conventional endoscopy Author links open overlay panel Yan Zhu MD 1 ∗ Qiu-Cheng Wang MCS 2 ∗ Mei-Dong Xu MD, PhD 1 Zhen Zhang MD 1 Jing Cheng MD 1 Yun-Shi Zhong MD, PhD 1 Yi-Qun Zhang MD, PhD 1 Wei-Feng Chen MD, PhD 1 Li-Qing Yao MD ...

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Real-time gastric polyp detection using convolutional ...
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However, despite significant advances, automatic polyp detection in real time is still an unsolved problem. In this paper, we report on a convolutional neural network (CNN) for polyp detection that is constructed based on Single Shot MultiBox Detector (SSD) architecture and which we call SSD for Gastric Polyps (SSD-GPNet).

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Artificial intelligence using convolutional neural ...
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A Japanese group recently reported a pilot study using DL with CNN on **detection** mainly of early squamous cell carcinoma with a sensitivity of 98%. 14 Ebigbo et al 16 used **computer-aided diagnosis** in the evaluation of early esophageal adenocarcinoma in BE. This system showed sensitivity and specificity of 97% and 88% and was trained on only 148 ...

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Computer-Aided Diagnosis Based on Convolutional Neural ...
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Computer-aided diagnosis for characterization of ...
https://www.sciencedirect.com/science/article/pii/S0016510720302182
Computer-aided diagnosis (CAD) uses the advances in artificial intelligence to offer a promising avenue to accurately characterize colorectal lesions in vivo and in real-time. More importantly, it could theoretically make an accurate prediction regardless of which center or **endoscopist** uses it.

Author: Leonardo Zorron Cheng Tao Pu, Leona...　　　　Publish Year: 2020

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