

Clinically applicable histopathological diagnosis system ...

<https://www.nature.com/articles/s41467-020-18147-8>

Aug 27, 2020 · The **deep learning** model is trained with 2123 ... D. S. et al. Identifying medical diagnoses and treatable diseases by image-based **deep learning**. ... a system for large-scale **machine learning**.

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Author: Zhigang Song, Shuangmei Zou, Weixun Z...

Publish Year: 2020

Deep learning in gastric tissue diseases: a systematic ...

<https://bmjopengastro.bmj.com/content/7/1/e000371> ▾

Mar 01, 2020 · Background In recent years, **deep learning** has gained remarkable attention in medical image analysis due to its capacity to provide results comparable to specialists and, in some cases, surpass them. Despite the emergence of **deep learning** research on gastric tissues **diseases**, few intensive reviews are addressing this topic. Method We performed a systematic review related to **applications of deep** ...

Cited by: 3

Author: Wanderson Gonçalves e Gonçalves, Mar...

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(PDF) Machine Learning Methods for Histopathological ...

<https://www.researchgate.net/publication/319478330...>

Machine learning application in digital pathology ... on the types of diseases and tissues, and machine learning algorithms. ... Deep Learning Predicts SPOP Mutation State in Prostate Cancer ...

Breath analysis based early gastric cancer classification ...

<https://www.nature.com/articles/s41598-021-83184-2>

Deep learning is an emerging tool, which is regularly used for disease diagnosis in the medical field. A new research direction has been developed for the detection of early-stage gastric cancer.

Machine Learning Methods for Histopathological Image ...

<https://www.sciencedirect.com/science/article/pii/S2001037017300867>

Jan 01, 2018 · Fig. 1 shows typical steps for histopathological image analysis using **machine learning**. Prior to applying **machine learning** algorithms, some pre-processing should be performed. For example, when cancer regions are detected in WSI, local mini patches ...

Cited by: 275

Author: Daizuka Kenyu, Shuangmei Jiaikang

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Cited by: 2

Author: Aman Srivastava, Saurav Sengupta, Sung-J...

Publish Year: 2019

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Mar 01, 2020 · To the best of our knowledge, the available reviews are restricted to **machine learning applications** in gastrointestinal endoscopy problems and do not provide a general overview of the scenario of **deep learning in gastric diseases**.^{20 27} Thus, the present study aims to reduce this gap by mapping, inspecting and discussing the literature content regarding the applications of **deep learning** methods based on **gastric** ...

Cited by: 4

Author: Wanderson Gonçalves e Gonçalves, Marcel...

Publish Year: 2020

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How is deep learning used in medical image analysis?



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State of machine and deep learning in histopathological applications in digestive diseases

ML/DL in digestive diseases

Abstract

Machine learning (ML)- and deep learning (DL)-based imaging modalities have exhibited the capacity to handle extremely high dimensional data for a number of computer vision tasks. While these approaches have been applied to numerous data types, this capacity can be especially leveraged by application on histopathological images, which capture cellular and structural features with their high-resolution, microscopic perspectives. Already, these methodologies have demonstrated promising performance in a variety of applications like disease classification, cancer grading,

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