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Purpose: To investigate diagnostic performance by using a **deep learning** method with a **convolutional neural network** (CNN) for the differentiation of **liver masses** at dynamic contrast agent-enhanced ...

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Yasaka K, Akai H, Abe O, Kiryu S. Deep Learning with Convolutional Neural Network for Differentiation of Liver Masses at Dynamic Contrast-enhanced CT: A Preliminary Study. Radiology 2018;286(3):887–896.

Author: Koichiro Yasaka, Osamu Abe **Publish Year:** 2018

[Liver Fibrosis: Deep Convolutional Neural Network for ...](https://pubs.rsna.org/doi/abs/10.1148/radiol.2017171928)

<https://pubs.rsna.org/doi/abs/10.1148/radiol.2017171928>

The **deep convolutional neural network** model using gadoxetic acid-enhanced hepatobiliary phase MR images, with or without information on the static magnetic field and the patient's hepatitis B virus and hepatitis C virus statuses as input data, showed a high diagnostic performance in the staging of **liver** ...

Cited by: 12 **Author:** Koichiro Yasaka, Hiroyuki Akai, Akira Kun...

Publish Year: 2017

[Deep learning with convolutional neural network in ...](https://link.springer.com/article/10.1007/s11604-018-0726-3)

<https://link.springer.com/article/10.1007/s11604-018-0726-3> ▾

Yasaka K, Akai H, Abe O, Kiryu S. Deep learning with convolutional neural network for differentiation of liver masses at dynamic contrast-enhanced CT: a preliminary study. Radiology. 2018;286:887–96.

Cited by: 9 **Author:** Koichiro Yasaka, Hiroyuki Akai, Akira Kun...

Publish Year: 2018

Name of Journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 46994

Manuscript Type: SYSTEMATIC REVIEWS

Deep learning with convolutional neural networks for identification of liver masses and hepatocellular carcinoma: A systematic review

Azer SA. CNNs and HCC

Samy A Azer

Abstract

BACKGROUND

Artificial intelligence, such as convolutional neural networks (CNNs) have

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Deep learning with convolutional neural network in ...

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Deep learning with a convolutional neural network (CNN) is gaining attention recently for its high performance in image recognition. Images themselves can be utilized in a learning process with this technique, and feature extraction in advance of the learning process is not required.

Cited by: 19

Author: Koichiro Yasaka, Hiroyuki Akai, Akira Ku...

Publish Year: 2018

Deep learning for liver tumor diagnosis part I ...

https://www.researchgate.net/publication/332592443_Deep_learning_for_liver_tumor...

Deep learning for liver tumor diagnosis part I: development of a convolutional neural network classifier for multi-phasic MRI Article in European Radiology 29(7) · April 2019 with 40 Reads

Residual convolutional neural network for predicting ...

<https://link.springer.com/article/10.1007/s00330-019-06318-1> ▾

Jul 22, 2019 · Several types of deep-stacked artificial neural networks, such as convolutional neural networks (CNNs) and recurrent neural networks (RNNs), have been proposed and judiciously used in various fields. Deep CNNs are especially recognized as demonstrating high performance for image recognition tasks [16 , 17].

Author: Jie Peng, Shuai Kang, Zhengyuan Nin... Publish Year: 2019

Deep learning and artificial intelligence in radiology ...

<https://journals.plos.org/plosmedicine/article?id=10.1371/journal.pmed.1002707> ▾

Nov 30, 2018 · Deep learning with convolutional neural networks (CNNs) is recently gaining wide attention for its high performance in recognizing images. If CNNs realize their promise in the context of radiology, they are anticipated to help radiologists achieve diagnostic excellence and to enhance patient healthcare.

Cited by: 5

Author: Koichiro Yasaka, Osamu Abe

Publish Year: 2018