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Name of Journal: *Artificial Intelligence in Cancer*

Manuscript NO: 54872

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Impact of blurs on machine-learning aided digital pathology image analysis

Ogura M *et al.* ML aided DPI analysis

Maki Ogura, Tomoharu Kiyuna, Hiroshi Yoshida

Abstract

BACKGROUND

Digital pathology image (DPI) analysis has been developed by machine learning



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Image analysis and machine learning in digital pathology ...

<https://www.sciencedirect.com/science/article/pii/S1361841516301141>

While **digital pathology** has substantial implications for telepathology, second opinions, and education there are also huge research opportunities in **image computing** with this new source of “**big data**”. It is well known that there is fundamental **prognostic data embedded in pathology images**.

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Author: Anant Madabhushi, George Lee

Publish Year: 2016

How Artificial Intelligence Is Augmenting Digital Pathology

<https://specialistdirectinc.com/digital-pathology-en/how-artificial-intelligence-is...> ▾

May 06, 2020 · The use of **AI in digital pathology** could save lives and improve patient care. It also enables real-time sharing of information and improves workflow efficiency. Plus, it eliminates manual or time-consuming tasks. Let's take a closer look at how **AI is augmenting digital pathology** and what to expect in the next few years. **AI and Medical Image Analysis**

Digital pathology and artificial intelligence - The Lancet ...

[https://www.thelancet.com/journals/lanonc/article/PIIS1470-2045\(19\)30154-8/fulltext](https://www.thelancet.com/journals/lanonc/article/PIIS1470-2045(19)30154-8/fulltext)

In modern clinical practice, **digital pathology** has a crucial role and is increasingly a technological requirement in the scientific **laboratory** environment. The advent of **whole-slide imaging**, availability of faster networks, and cheaper storage solutions has made it easier for **pathologists** to manage **digital slide images** and share them for clinical use.

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Author: Muhammad Khalid Khan Niazi, Anil V Pa...

Publish Year: 2019

Deep learning shows the capability of high-level computer ...

<https://www.nature.com/articles/s41374-020-0442-3>

May 29, 2020 · Janowczyk A, Madabhushi A. Deep learning for **digital pathology image analysis**: a comprehensive tutorial with selected use cases. *J Pathol Inform.* 2016;7:29. Article

Pathology Image Analysis Using Segmentation Deep ...

<https://www.researchgate.net/publication/333714099...>

Although there have been previous reviews on using machine learning methods in **digital pathology image analysis**, this is the first in-depth review of the applications of deep learning algorithms ...



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