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**Name of Journal:** *Artificial Intelligence in Gastroenterology*

**Manuscript NO:** 57192

**Manuscript Type:** MINIREVIEWS

**Application of artificial intelligence in hepatology: Minireview**

Masuzaki R *et al.* AI in hepatology

Ryota Masuzaki, Tatsuo Kanda, Reina Sasaki, Naoki Matsumoto, Kazushige  
Nirei, Masahiro Ogawa, Mitsuhiko Moriyama

### Abstract

With the rapid advancements in computer science, artificial intelligence (AI)



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## The emerging role of AI in medicine, gastroenterology and ...

<https://www.mayoclinic.org> > medical-professionals > ... ▾

The emerging role of AI in medicine, gastroenterology and hepatology Oct. 22, 2019 Artificial intelligence (AI) is a branch of computer science that attempts to emulate human problem-solving ...

## Application of Artificial Intelligence to Gastroenterology ...

<https://www.ncbi.nlm.nih.gov> > pubmed > 31593701

Oct 05, 2019 · Since 2010, substantial progress has been made in artificial intelligence (AI) and its application to medicine. AI is explored in gastroenterology for endoscopic analysis of lesions, in detection of cancer, and to facilitate the analysis of inflammatory lesions or gastrointestinal bleeding during wireless capsule endoscopy.

Cited by: 1

Author: Catherine Le Berre, William J. Sandborn, ...

Publish Year: 2020

## Application of Artificial Intelligence in the Detection ...

<https://www.ncbi.nlm.nih.gov> > pubmed > 31434208

Aug 20, 2019 · (4)Division of Gastroenterology, Hepatology and Nutrition, the Ohio State University Wexner Medical Center, Columbus, OH 43210, USA. Somashekar.krishna@osumc.edu. Research in computer-aided diagnosis (CAD) and the application of artificial intelligence (AI) in the endoscopic evaluation of the gastrointestinal tract is novel.

Cited by: 2

Author: Wei-Lun Chao, Hanisha Manickavasagan, ...

Publish Year: 2019

## Application of Artificial Intelligence in Gastroenterology ...

<https://pubmed.ncbi.nlm.nih.gov> > 31011253

Artificial intelligence (AI) using deep-learning (DL) has emerged as a breakthrough computer technology. By the era of big data, the accumulation of an enormous number of digital images and medical records drove the need for the utilization of AI to efficiently deal with these data, which have become fundamental resources for a machine to learn by itself.

## Metasurface-Based Molecular Biosensing Aided by Artificial ...

<https://www.onlinelibrary.wiley.com> > doi > abs > 10.1002 > anie.201901443



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[https://www.gastrojournal.org/article/S0016-5085\(19\)41412-1/pdf](https://www.gastrojournal.org/article/S0016-5085(19)41412-1/pdf)

**Artificial intelligence (AI)** and its **application to medicine**. **AI** is explored in gastroenterology for endoscopic analysis of lesions, in detection of cancer, and to facilitate the analysis of inflammatory lesions or gastrointestinal bleeding during wireless capsule endoscopy. **AI** is also tested to assess liver

### [Application of Artificial Intelligence in Gastroenterology ...](#)

<https://pubmed.ncbi.nlm.nih.gov/31011253>

**Artificial intelligence (AI)** using deep-learning (DL) has emerged as a breakthrough computer technology. By the era of big data, the accumulation of an enormous number of digital images and medical records drove the need for the utilization of AI to efficiently deal with these data, which have become fundamental resources for a machine to learn by itself.

**Cited by:** 10

**Author:** Young Joo Yang, Chang Seok Bang

**Publish Year:** 2019

### [Application of Artificial Intelligence to Gastroenterology ...](#)

<https://www.sciencedirect.com/science/article/abs/pii/S0016508519414121>

Since 2010, substantial progress has been made in **artificial intelligence (AI)** and its **application to medicine**. **AI** is explored in gastroenterology for endoscopic analysis of lesions, in detection of cancer, and to facilitate the analysis of inflammatory lesions or ...

**Cited by:** 6

**Author:** Catherine Le Berre, William J. Sandborn, ...

**Publish Year:** 2020

### [Metasurface-Based Molecular Biosensing Aided by Artificial ...](#)

<https://www.onlinelibrary.wiley.com/doi/abs/10.1002/anie.201901443>

Apr 25, 2019 · In this **Minireview**, recently developed **molecular biosensing approaches** based on the combination of **dielectric metasurfaces** and **imaging detection** are highlighted in comparison to traditional plasmonic geometries, and the unique potential of **artificial intelligence** techniques for