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Evolving role of artificial intelligence in gastrointestinal endoscopy

Parasher G *et al.* Artificial intelligence in gastrointestinal endoscopy

Gulshan Parasher, Morgan Wong, Manmeet Rawat

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Evolving role of AI (Artificial Intelligence) in Gastrointestinal Endos



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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 fibrosis and to differentiate patients with pancreatic cancer from those with pancreatitis.

Author: Catherine Le Berre, William J. Sandborn, Sabeur Aridhi, Marie-Dominique Devignes, Laure Fournier, Ma...

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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**.

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Background and aims: Artificial intelligence (AI), specifically **deep learning**, offers the potential to **enhance the field of gastrointestinal endoscopy in areas ranging from lesion detection and classification, to quality metrics and documentation**. Progress in this field will be measured by

Evolving role of artificial intelligence in gastrointestinal endoscopy X



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The American Society for **Gastrointestinal Endoscopy** is helping to establish and integrate the optimal use and application of **AI** technology in the **GI** space. This effort represents ASGE's long-standing commitment in applying new and advanced technology to deliver improved care of **GI** patients.

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Abstract With the **application of artificial intelligence** (AI) in deep learning, it has become possible to develop an AI that can be used clinically even in the field of **upper endoscopy**, which has been said to be difficult to diagnose. This review summarizes current studies on **upper gastrointestinal tract** based on AI and deep learning.

Author: Tomohiro Tada, Toshiaki Hirasawa, Tos...**Publish Year:** 2020

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In the field of **gastroenterology**, physicians handle large amounts of clinical data and various kinds of image devices such as **endoscopy** and ultrasound. AI has been applied in **gastroenterology** in terms of



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Artificial intelligence (AI) is now a trendy subject in clinical medicine and especially in **gastrointestinal** (GI) **endoscopy**. AI has the potential to improve the quality of GI **endoscopy** at all levels. It will...

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Today gastroenterologists face the challenge of how to perceive and interpret the high volume—about 30 high-definition frames per s—of rich visual data presented in real time during an **endoscopy**. Unlike many...

Cited by: 2**Author:** Tyler M Berzin, Eric J Topol**Publish Year:** 2020

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Author: Tomohiro Tada, Toshiaki Hirasawa, Tos... **Publish Year:** 2020

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Dec 14, 2018 · With recent breakthroughs in **artificial intelligence**, computer-aided diagnosis (CAD) for upper **gastrointestinal endoscopy** is gaining increasing attention. Main research focuses in this field...

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