Table S1 The top-100 cited articles in the field of artificial intelligence in digestive endoscopy field.

Rank	Article	Number of citations
1	Hirasawa T, Aoyama K, Tanimoto T, et al. Application of artificial intelligence using a convolutional neural network for detecting gastric cancer in endoscopic images. *Gastric Cancer*. 2018;21(4):653-660. doi:10.1007/s10120-018-0793-2	255
2	Wang P, Berzin TM, Glissen Brown JR, et al. Real-time automatic detection system increases colonoscopic polyp and adenoma detection rates: a prospective randomised controlled study. *Gut*. 2019;68(10):1813-1819. doi:10.1136/gutjnl-2018-317500	248
3	Mori Y, Kudo SE, Misawa M, et al. Real-Time Use of Artificial Intelligence in Identification of Diminutive Polyps During Colonoscopy: A Prospective Study. *Ann Intern Med*. 2018;169(6):357-366. doi:10.7326/M18-0249	195
4	Horie Y, Yoshio T, Aoyama K, et al. Diagnostic outcomes of esophageal cancer by artificial intelligence using convolutional neural networks. *Gastrointest Endosc*. 2019;89(1):25-32. doi:10.1016/j.gie.2018.07.037	153
5	Le Berre C, Sandborn WJ, Aridhi S, et al. Application of Artificial Intelligence to Gastroenterology and Hepatology. *Gastroenterology*. 2020;158(1):76-94.e2. doi:10.1053/j.gastro.2019.08.058	129
6	Zhu Y, Wang QC, Xu MD, et al. Application of convolutional neural network in the diagnosis of the invasion depth of gastric cancer based on conventional endoscopy. *Gastrointest Endosc*. 2019;89(4):806-815.e1.	127

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7	Shichijo S, Nomura S, Aoyama K, et al. Application of Convolutional Neural Networks in the Diagnosis of Helicobacter pylori Infection Based on Endoscopic Images. *EBioMedicine*. 2017;25:106-111. doi:10.1016/j.ebiom.2017.10.014	124
8	Luo H, Xu G, Li C, et al. Real-time artificial intelligence for detection of upper gastrointestinal cancer by endoscopy: a multicentre, case-control, diagnostic study. *Lancet Oncol*. 2019;20(12):1645-1654. doi:10.1016/S1470-2045(19)30637-0	110
9	Aoki T, Yamada A, Aoyama K, et al. Automatic detection of erosions and ulcerations in wireless capsule endoscopy images based on a deep convolutional neural network. *Gastrointest Endosc*. 2019;89(2):357-363.e2. doi:10.1016/j.gie.2018.10.027	110
10	Wu L, Zhang J, Zhou W, et al. Randomised controlled trial of WISENSE, a real-time quality improving system for monitoring blind spots during esophagogastroduodenoscopy. *Gut*. 2019;68(12):2161-2169. doi:10.1136/gutjnl-2018-317366	97
11	Repici A, Badalamenti M, Maselli R, et al. Efficacy of Real-Time Computer-Aided Detection of Colorectal Neoplasia in a Randomized Trial. *Gastroenterology*. 2020;159(2):512-520.e7. doi:10.1053/j.gastro.2020.04.062	96
12	Ding Z, Shi H, Zhang H, et al. Gastroenterologist-Level Identification of Small-Bowel Diseases and Normal Variants by Capsule Endoscopy Using a Deep-Learning Model. *Gastroenterology*. 2019;157(4):1044-1054.e5. doi:10.1053/j.gastro.2019.06.025	95

13	de Groof AJ, Struyvenberg MR, van der Putten J, et al. Deep-Learning System Detects Neoplasia in Patients With Barrett's Esophagus With Higher Accuracy Than Endoscopists in a Multistep Training and Validation Study With Benchmarking. *Gastroenterology*. 2020;158(4):915-929.e4. doi:10.1053/j.gastro.2019.11.030	90
14	Yuan Y, Meng MQ. Deep learning for polyp recognition in wireless capsule endoscopy images. *Med Phys*. 2017;44(4):1379-1389. doi:10.1002/mp.12147	86
15	Itoh T, Kawahira H, Nakashima H, Yata N. Deep learning analyzes Helicobacter pylori infection by upper gastrointestinal endoscopy images. *Endosc Int Open*. 2018;6(2):E139-E144. doi:10.1055/s-0043-120830	77
16	Bisschops R, East JE, Hassan C, et al. Advanced imaging for detection and differentiation of colorectal neoplasia: European Society of Gastrointestinal Endoscopy (ESGE) Guideline - Update 2019 [published correction appears in Endoscopy. 2019 Dec;51(12):C6]. *Endoscopy*. 2019;51(12):1155-1179. doi:10.1055/a-1031-7657	76
17	Maeda Y, Kudo SE, Mori Y, et al. Fully automated diagnostic system with artificial intelligence using endocytoscopy to identify the presence of histologic inflammation associated with ulcerative colitis (with video). *Gastrointest Endosc*. 2019;89(2):408-415. doi:10.1016/j.gie.2018.09.024	72
18	Iakovidis DK, Georgakopoulos SV, Vasilakakis M, Koulaouzidis A, Plagianakos VP. Detecting and Locating Gastrointestinal Anomalies Using Deep Learning and Iterative Cluster Unification. *IEEE Trans Med Imaging*. 2018;37(10):2196-2210.	71

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27	Kudo SE, Mori Y, Misawa M, et al. Artificial intelligence and colonoscopy: Current status and future perspectives. *Dig Endosc*. 2019;31(4):363-371. doi:10.1111/den.13340	53
28	Tsuboi A, Oka S, Aoyama K, et al. Artificial intelligence using a convolutional neural network for automatic detection of small-bowel angioectasia in capsule endoscopy images. *Dig Endosc*. 2020;32(3):382-390. doi:10.1111/den.13507	53
29	Khan, M. A. , et al. "Computer-Aided Gastrointestinal Diseases Analysis from Wireless Capsule Endoscopy: A Framework of Best Features Selection." IEEE Access PP.99(2020).	51
30	Cai SL, Li B, Tan WM, et al. Using a deep learning system in endoscopy for screening of early esophageal squamous cell carcinoma (with video). *Gastrointest Endosc*. 2019;90(5):745-753.e2. doi:10.1016/j.gie.2019.06.044	51
31	Khan MA, Sharif M, Akram T, Yasmin M, Nayak RS. Stomach Deformities Recognition Using Rank-Based Deep Features Selection. *J Med Syst*. 2019;43(12):329. Published 2019 Nov 1. doi:10.1007/s10916-019-1466-3	50
32	Min JK, Kwak MS, Cha JM. Overview of Deep Learning in Gastrointestinal Endoscopy. *Gut Liver*. 2019;13(4):388-393. doi:10.5009/gnl18384	50
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41	Everson M, Herrera L, Li W, et al. Artificial intelligence for the real-time classification of intrapapillary capillary loop patterns in the endoscopic diagnosis of early oesophageal squamous cell carcinoma: A proof-of-concept study. *United European Gastroenterol J*. 2019;7(2):297-306. doi:10.1177/2050640618821800	35
42	Borgli H, Thambawita V, Smedsrud PH, et al. HyperKvasir, a comprehensive multi-class image and video dataset for gastrointestinal endoscopy. *Sci Data*. 2020;7(1):283. Published 2020 Aug 28. doi:10.1038/s41597-020-00622-y	34
43	Khan MA, Sharif M, Akram T, Yasmin M, Nayak RS. Stomach Deformities Recognition Using Rank-Based Deep Features Selection. *J Med Syst*. 2019;43(12):329. Published 2019 Nov 1. doi:10.1007/s10916-019-1466-3	34
44	Lui TKL, Guo CG, Leung WK. Accuracy of artificial intelligence on histology prediction and detection of colorectal polyps: a systematic review and meta-analysis. *Gastrointest Endosc*. 2020;92(1):11-22.e6. doi:10.1016/j.gie.2020.02.033	34
45	Ozawa T, Ishihara S, Fujishiro M, Kumagai Y, Shichijo S, Tada T. Automated endoscopic detection and classification of colorectal polyps using convolutional neural networks. *Therap Adv Gastroenterol*. 2020;13:1756284820910659. Published 2020 Mar 20. doi:10.1177/1756284820910659	33
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50	van der Sommen F, de Groof J, Struyvenberg M, et al. Machine learning in GI endoscopy: practical guidance in how to interpret a novel field. *Gut*. 2020;69(11):2035-2045. doi:10.1136/gutjnl-2019-320466	31
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61	Mahmood F, Chen R, Sudarsky S, Yu D, Durr NJ. Deep learning with cinematic rendering: fine-tuning deep neural networks using photorealistic medical	24

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77	Luo X, Mori K, Peters TM. Advanced Endoscopic Navigation: Surgical Big Data, Methodology, and Applications. *Annu Rev Biomed Eng*. 2018;20:221-251. doi:10.1146/annurev-bioeng-062117-120917	17
78	Du, W. , et al. "Review on the Applications of Deep Learning in the Analysis of Gastrointestinal Endoscopy Images." IEEE Access PP.99(2019):1-1.doi: 10.1109/ACCESS.2019.2944676	17
79	Niu PH, Zhao LL, Wu HL, Zhao DB, Chen YT. Artificial intelligence in gastric cancer: Application and future perspectives. *World J Gastroenterol*. 2020;26(36):5408-5419. doi:10.3748/wjg.v26.i36.5408	17
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84	Wang S, Xing Y, Zhang L, Gao H, Zhang H. Deep Convolutional Neural Network for Ulcer Recognition in Wireless Capsule Endoscopy: Experimental Feasibility and Optimization. *Comput Math Methods Med*. 2019;2019:7546215. Published 2019 Sep 18. doi:10.1155/2019/7546215	16
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89	Igarashi S, Sasaki Y, Mikami T, Sakuraba H, Fukuda S. Anatomical classification of upper gastrointestinal organs under various image capture conditions using AlexNet. *Comput Biol Med*. 2020;124:103950. doi:10.1016/j.compbiomed.2020.103950	15
90	Otani K, Nakada A, Kurose Y, et al. Automatic detection of different types of small-bowel lesions on capsule endoscopy images using a newly developed deep convolutional neural network. *Endoscopy*. 2020;52(9):786-791. doi:10.1055/a-1167-8157	15
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93	He YS, Su JR, Li Z, Zuo XL, Li YQ. Application of artificial intelligence in gastrointestinal endoscopy. *J Dig Dis*. 2019;20(12):623-630. doi:10.1111/1751-2980.12827	14
94	Wang S, Xing Y, Zhang L, Gao H, Zhang H. A systematic evaluation and optimization of automatic detection of ulcers in wireless capsule endoscopy on a large	14

	dataset using deep convolutional neural networks. *Phys Med Biol*. 2019;64(23):235014. Published 2019 Dec 5. doi:10.1088/1361-6560/ab5086	
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96	Okagawa Y, Abe S, Yamada M, Oda I, Saito Y. Artificial Intelligence in Endoscopy [published online ahead of print, 2021 Jun 21]. *Dig Dis Sci*. 2021;10.1007/s10620-021-07086-z. doi:10.1007/s10620-021-07086-z	14
97	Ward TM, Hashimoto DA, Ban Y, et al. Automated operative phase identification in peroral endoscopic myotomy. *Surg Endosc*. 2021;35(7):4008-4015. doi:10.1007/s00464-020-07833-9	14
98	Muhammad, K., et al. "Vision-based personalized Wireless Capsule Endoscopy for smart healthcare: Taxonomy, literature review, opportunities and challenges." Future Generation Computer Systems 113(2020). Doi:10.1016/j.future.2020.06.048	13
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