

Hayato Itoh

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,518
citations

758635

12
h-index

329751

37
g-index

63
all docs

63
docs citations

63
times ranked

1374
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Use of Artificial Intelligence in Identification of Diminutive Polyps During Colonoscopy. <i>Annals of Internal Medicine</i> , 2018, 169, 357.	2.0	391
2	Artificial Intelligence-Assisted Polyp Detection for Colonoscopy: Initial Experience. <i>Gastroenterology</i> , 2018, 154, 2027-2029.e3.	0.6	281
3	Artificial Intelligence-assisted System Improves Endoscopic Identification of Colorectal Neoplasms. <i>Clinical Gastroenterology and Hepatology</i> , 2020, 18, 1874-1881.e2.	2.4	167
4	Development of a computer-aided detection system for colonoscopy and a publicly accessible large colonoscopy video database (with video). <i>Gastrointestinal Endoscopy</i> , 2021, 93, 960-967.e3.	0.5	111
5	Artificial intelligence and colonoscopy: Current status and future perspectives. <i>Digestive Endoscopy</i> , 2019, 31, 363-371.	1.3	108
6	Artificial intelligence and upper gastrointestinal endoscopy: Current status and future perspective. <i>Digestive Endoscopy</i> , 2019, 31, 378-388.	1.3	100
7	Artificial Intelligence System to Determine Risk of T1 Colorectal Cancer Metastasis to Lymph Node. <i>Gastroenterology</i> , 2021, 160, 1075-1084.e2.	0.6	99
8	Real-Time Artificial Intelligence-Based Optical Diagnosis of Neoplastic Polyps during Colonoscopy. , 2022, 1, .		36
9	Current status and future perspective on artificial intelligence for lower endoscopy. <i>Digestive Endoscopy</i> , 2021, 33, 273-284.	1.3	25
10	Tubular Structure Segmentation Using Spatial Fully Connected Network with Radial Distance Loss for 3D Medical Images. <i>Lecture Notes in Computer Science</i> , 2019, , 348-356.	1.0	23
11	Impact of the clinical use of artificial intelligence-assisted neoplasia detection for colonoscopy: a large-scale prospective, propensity score-matched study (with video). <i>Gastrointestinal Endoscopy</i> , 2022, 95, 155-163.	0.5	19
12	Artificial intelligence-assisted colonic endocytoscopy for cancer recognition: a multicenter study. <i>Endoscopy International Open</i> , 2021, 09, E1004-E1011.	0.9	14
13	Comprehensive Diagnostic Performance of Real-Time Characterization of Colorectal Lesions Using an Artificial Intelligence-Assisted System: A Prospective Study. <i>Gastroenterology</i> , 2022, 163, 323-325.e3.	0.6	14
14	Dimension Reduction and Construction of Feature Space for Image Pattern Recognition. <i>Journal of Mathematical Imaging and Vision</i> , 2016, 56, 1-31.	0.8	13
15	TU1990 ARTIFICIAL INTELLIGENCE-ASSISTED POLYP DETECTION SYSTEM FOR COLONOSCOPY, BASED ON THE LARGEST AVAILABLE COLLECTION OF CLINICAL VIDEO DATA FOR MACHINE LEARNING. <i>Gastrointestinal Endoscopy</i> , 2019, 89, AB646-AB647.	0.5	10
16	Binary polyp-size classification based on deep-learned spatial information. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 1817-1828.	1.7	9
17	Towards Automated Colonoscopy Diagnosis: Binary Polyp Size Estimation via Unsupervised Depth Learning. <i>Lecture Notes in Computer Science</i> , 2018, , 611-619.	1.0	9
18	Pattern recognition in multilinear space and its applications: mathematics, computational algorithms and numerical validations. <i>Machine Vision and Applications</i> , 2016, 27, 1259-1273.	1.7	8

#	ARTICLE	IF	CITATIONS
19	Artificial Intelligence for Colorectal Polyp Detection and Characterization. Current Treatment Options in Gastroenterology, 2020, 18, 200-211.	0.3	7
20	Unsupervised colonoscopic depth estimation by domain translations with a Lambertian-reflection keeping auxiliary task. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 989-1001.	1.7	7
21	Topology-Preserving Dimension-Reduction Methods for Image Pattern Recognition. Lecture Notes in Computer Science, 2013, , 195-204.	1.0	6
22	381 COMPUTER-AIDED DIAGNOSIS FOR SAMLL COLORECTAL LESIONS: A MULTI-CENTER VALIDATION â€œENDOBRAIN STUDYâ€•DESIGNED TO OBTAIN REGULATORY APPROVAL. Gastrointestinal Endoscopy, 2019, 89,0.5 AB76.	0.5	5
23	Stable polypâ€šcene classification via subsampling and residual learning from an imbalanced large dataset. Healthcare Technology Letters, 2019, 6, 237-242.	1.9	5
24	Multiple Alignment of Spatiotemporal Deformable Objects for the Average-Organ Computation. Lecture Notes in Computer Science, 2015, , 353-366.	1.0	5
25	Visualizing intestines for diagnostic assistance of ileus based on intestinal region segmentation from 3D CT images. , 2020, , .		5
26	Artificial intelligence and computer-aided diagnosis for colonoscopy: where do we stand now?. Translational Gastroenterology and Hepatology, 2021, 6, 0-0.	1.5	4
27	Global Image Registration by Fast Random Projection. Lecture Notes in Computer Science, 2011, , 23-32.	1.0	4
28	Approximation of N-Way Principal Component Analysis for Organ Data. Lecture Notes in Computer Science, 2017, , 16-31.	1.0	3
29	How Far Will Clinical Application of AI Applications Advance for Colorectal Cancer Diagnosis?. Journal of the Anus, Rectum and Colon, 2020, 4, 47-50.	0.4	3
30	Depth estimation from single-shot monocular endoscope image using image domain adaptation and edge-aware depth estimation. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2022, 10, 266-273.	1.3	3
31	Impact of artificial intelligence on colorectal polyp detection for early-career endoscopists: an international comparative study. Scandinavian Journal of Gastroenterology, 2022, 57, 1272-1277.	0.6	3
32	Multi-label Classification for Image Annotation via Sparse Similarity Voting. Lecture Notes in Computer Science, 2011, , 344-353.	1.0	2
33	Global Image Registration Using Random Projection and Local Linear Method. Lecture Notes in Computer Science, 2013, , 564-571.	1.0	2
34	Visualising decision-reasoning regions in computer-aided pathological pattern diagnosis of endoscytoscopic images based on CNN weights analysis. , 2020, , .		2
35	Interpolation of Reference Images in Sparse Dictionary for Global Image Registration. Lecture Notes in Computer Science, 2012, , 657-667.	1.0	1
36	Motion Language of Stereo Image Sequence. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
37	Fast Approximate Karhunen-Loève Transform for Three-Way Array Data. , 2017, , .		1
38	Artificial intelligence for magnifying endoscopy, endocytoscopy, and confocal laser endomicroscopy of the colorectum. Techniques and Innovations in Gastrointestinal Endoscopy, 2020, 22, 56-60.	0.4	1
39	Robust endocytoscopic image classification based on higher-order symmetric tensor analysis and multi-scale topological statistics. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 2049-2059.	1.7	1
40	Optical Flow Computation with Locally Quadratic Assumption. Lecture Notes in Computer Science, 2015, , 223-234.	1.0	1
41	Dimension Reduction Methods for Image Pattern Recognition. Lecture Notes in Computer Science, 2013, , 26-42.	1.0	1
42	Cascade classification of endocytoscopic images of colorectal lesions for automated pathological diagnosis. , 2018, , .		1
43	Discriminative Properties in Directional Distributions for Image Pattern Recognition. Lecture Notes in Computer Science, 2016, , 617-630.	1.0	1
44	Analysis of Multilinear Subspaces Based on Geodesic Distance. Lecture Notes in Computer Science, 2017, , 384-396.	1.0	1
45	Multilinear Subspace Method Based on Geodesic Distance for Volumetric Object Classification. Lecture Notes in Computer Science, 2019, , 672-683.	1.0	1
46	Spaciousness Filters for Non-contrast CT Volume Segmentation of the Intestine Region for Emergency Ileus Diagnosis. Lecture Notes in Computer Science, 2019, , 104-114.	1.0	1
47	Two-Dimensional Global Image Registration Using Local Linear Property of Image Manifold. , 2014, , .		0
48	Linear Data Compression of Hyperspectral Images. , 2017, , .		0
49	Relaxed Optimisation for Tensor Principal Component Analysis and Applications to Recognition, Compression and Retrieval of Volumetric Shapes. Mathematics and Visualization, 2018, , 165-200.	0.4	0
50	482 PERFORMANCE OF NON-EXPERT ENDOSCOPISTS IN OPTICAL BIOPSY OF DIMINUTIVE COLORECTAL POLYPS WITH REAL-TIME USE OF ARTIFICIAL INTELLIGENCE. Gastrointestinal Endoscopy, 2019, 89, AB89.	0.5	0
51	Discriminative Feature Selection by Optimal Manifold Search for Neoplastic Image Recognition. Lecture Notes in Computer Science, 2019, , 534-549.	1.0	0
52	Global Volumetric Image Registration Using Local Linear Property of Image Manifold. Lecture Notes in Computer Science, 2015, , 238-253.	1.0	0
53	Mathematical Aspects of Tensor Subspace Method. Lecture Notes in Computer Science, 2016, , 37-48.	1.0	0
54	Classification of Volumetric Data Using Multiway Data Analysis. Lecture Notes in Computer Science, 2016, , 231-240.	1.0	0

#	ARTICLE	IF	CITATIONS
55	Multilinear Methods for Spatio-Temporal Image Recognition. Lecture Notes in Computer Science, 2017, , 148-159.	1.0	0
56	Investigation of extracting interlobular septa with Hessian analysis and radial structure tensor combined with roundness error in micro-CT volume. , 2019, , .		0
57	Polyp-size classification with RGB-D features for colonoscopy. , 2019, , .		0
58	Uncertainty meets 3D-spatial feature in colonoscopic polyp-size determination. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 0, , 1-10.	1.3	0
59	Substantia nigra analysis by tensor decomposition of T2-weighted images for Parkinsonâ€™s disease diagnosis. , 2022, , .		0