

# Janne J NÄäppi

## List of Publications by Year in descending order

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Version: 2024-02-01

79  
papers

1,860  
citations

331670

21  
h-index

265206

42  
g-index

81  
all docs

81  
docs citations

81  
times ranked

859  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional computer-aided diagnosis scheme for detection of colonic polyps. IEEE Transactions on Medical Imaging, 2001, 20, 1261-1274.	8.9	323
2	Computer-aided Diagnosis Scheme for Detection of Polyps at CT Colonography. Radiographics, 2002, 22, 963-979.	3.3	147
3	Automated Detection of Polyps with CT Colonography. Academic Radiology, 2002, 9, 386-397.	2.5	111
4	Diagnostic Accuracy of Laxative-Free Computed Tomographic Colonography for Detection of Adenomatous Polyps in Asymptomatic Adults. Annals of Internal Medicine, 2012, 156, 692.	3.9	103
5	Massive-training artificial neural network (MTANN) for reduction of false positives in computer-aided detection of polyps: Suppression of rectal tubes. Medical Physics, 2006, 33, 3814-3824.	3.0	95
6	Mixture of expert 3D massive-training ANNs for reduction of multiple types of false positives in CAD for detection of polyps in CT colonography. Medical Physics, 2008, 35, 694-703.	3.0	89
7	Feature-guided analysis for reduction of false positives in CAD of polyps for computed tomographic colonography. Medical Physics, 2003, 30, 1592-1601.	3.0	81
8	Fully Automated Three-Dimensional Detection of Polyps in Fecal-Tagging CT Colonography. Academic Radiology, 2007, 14, 287-300.	2.5	79
9	Accurate segmentation of the breast region from digitized mammograms. Computerized Medical Imaging and Graphics, 2001, 25, 47-59.	5.8	70
10	CAD in CT colonography without and with oral contrast agents: Progress and challenges. Computerized Medical Imaging and Graphics, 2007, 31, 267-284.	5.8	65
11	Region-based Supine-prone Correspondence for the Reduction of False-positive CAD Polyp Candidates in CT Colonography <sup>1</sup> . Academic Radiology, 2005, 12, 695-707.	2.5	60
12	Adaptive correction of the pseudo-enhancement of CT attenuation for fecal-tagging CT colonography. Medical Image Analysis, 2008, 12, 413-426.	11.6	57
13	Automated Knowledge-Guided Segmentation of Colonic Walls for Computerized Detection of Polyps in CT Colonography. Journal of Computer Assisted Tomography, 2002, 26, 493-504.	0.9	55
14	Structure-analysis method for electronic cleansing in cathartic and noncathartic CT colonography. Medical Physics, 2008, 35, 3259-3277.	3.0	49
15	Computerized detection of colorectal masses in CT colonography based on fuzzy merging and wall-thickening analysis. Medical Physics, 2004, 31, 860-872.	3.0	47
16	CT-based radiomics for prediction of histologic subtype and metastatic disease in primary malignant lung neoplasms. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 163-172.	2.8	40
17	Centerline-based colon segmentation for CT colonography. Medical Physics, 2005, 32, 2665-2672.	3.0	35
18	Accuracy of CT Colonography for Detection of Polypoid and Nonpolypoid Neoplasia by Gastroenterologists and Radiologists: A Nationwide Multicenter Study in Japan. American Journal of Gastroenterology, 2017, 112, 163-171.	0.4	32

#	ARTICLE	IF	CITATIONS
19	Informatics in Radiology: Electronic Cleansing for Noncathartic CT Colonography: A Structure-Analysis Scheme. <i>Radiographics</i> , 2010, 30, 585-602.	3.3	28
20	Deep Learning Electronic Cleansing for Single- and Dual-Energy CT Colonography. <i>Radiographics</i> , 2018, 38, 2034-2050.	3.3	23
21	Fast and robust computation of colon centerline in CT colonography. <i>Medical Physics</i> , 2004, 31, 3046-3056.	3.0	21
22	Comparative Evaluation of the Fecal-Tagging Quality in CT Colonography. <i>Academic Radiology</i> , 2009, 16, 1393-1399.	2.5	21
23	Virtual Endoscopic Visualization of the Colon by Shape-“Scale Signatures. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2005, 9, 120-131.	3.2	20
24	Sources of false positives in computer-assisted CT colonography. <i>Abdominal Imaging</i> , 2011, 36, 153-164.	2.0	20
25	Algorithmic 3D simulation of breast calcifications for digital mammography. <i>Computer Methods and Programs in Biomedicine</i> , 2001, 66, 115-124.	4.7	15
26	Virtual tagging for laxative-free CT colonography: Pilot evaluation. <i>Medical Physics</i> , 2009, 36, 1830-1838.	3.0	14
27	A Clinical Decision Support Framework for Incremental Polyps Classification in Virtual Colonoscopy. <i>Algorithms</i> , 2010, 3, 1-20.	2.1	14
28	New high-performance CAD scheme for the detection of polyps in CT colonography. , 2004, , .		13
29	Deep transfer learning of virtual endoluminal views for the detection of polyps in CT colonography. <i>Proceedings of SPIE</i> , 2016, , .	0.8	11
30	A generative flow-based model for volumetric data augmentation in 3D deep learning for computed tomographic colonography. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 81-89.	2.8	11
31	Weakly unsupervised conditional generative adversarial network for image-based prognostic prediction for COVID-19 patients based on chest CT. <i>Medical Image Analysis</i> , 2021, 73, 102159.	11.6	11
32	Nonlinear regression-based method for pseudoenhancement correction in CT colonography. <i>Medical Physics</i> , 2009, 36, 3596-3606.	3.0	7
33	A comparison of material decomposition techniques for dual-energy CT colonography. <i>Proceedings of SPIE</i> , 2015, 9412, .	0.8	7
34	Comparative Performance of Random Forest and Support Vector Machine Classifiers for Detection of Colorectal Lesions in CT Colonography. <i>Lecture Notes in Computer Science</i> , 2012, , 27-34.	1.3	7
35	Minimum-invasive early diagnosis of colorectal cancer with CT colonography: techniques and clinical value. <i>Expert Opinion on Medical Diagnostics</i> , 2008, 2, 1233-1246.	1.6	6
36	Deep learning of contrast-coated serrated polyps for computer-aided detection in CT colonography. <i>Proceedings of SPIE</i> , 2017, , .	0.8	6

#	ARTICLE	IF	CITATIONS
37	Digital bowel cleansing for computer-aided detection of polyps in fecal-tagging CT colonography. , 2006, , .		5
38	Delineation of tagged region by use of local iso-surface roughness in electronic cleansing for CT colonography. , 2007, , .		5
39	Computer-aided detection of polyps in CT colonography: evaluation of volumetric features in differentiating polyps from false positives. International Congress Series, 2001, 1230, 676-681.	0.2	4
40	Fecal-tagging CT colonography with structure-analysis electronic cleansing for detection of colorectal flat lesions. European Journal of Radiology, 2012, 81, 1712-1716.	2.6	4
41	A multiscale algorithm for segmenting calcifications from high-resolution mammographic specimen radiographs. Journal of Digital Imaging, 2000, 13, 130-132.	2.9	3
42	Effect of knowledge-guided colon segmentation in automated detection of polyps in CT colonography. , 2002, , .		3
43	Evaluation of the effect of CAD on observers' performance in detection of polyps in CT colonography. International Congress Series, 2004, 1268, 989-992.	0.2	3
44	Pseudo-enhancement correction for computer-aided detection in fecal-tagging CT colonography. , 2007, , .		3
45	Automated detection of colorectal lesions with dual-energy CT colonography. , 2012, , .		3
46	Electronic cleansing for dual-energy CT colonography based on material decomposition and virtual monochromatic imaging. Proceedings of SPIE, 2015, 9414, 94140Q.	0.8	3
47	Deep ensemble learning of virtual endoluminal views for polyp detection in CT colonography. , 2017, , .		3
48	Ensemble 3D residual network (E3D-ResNet) for reduction of false-positive polyp detections in CT colonography. , 2019, , .		3
49	Region-based supine-prone correspondence for reduction of false positives in CAD of CT colonography. International Congress Series, 2004, 1268, 993-998.	0.2	2
50	Volumetric detection of colorectal lesions for noncathartic dual-energy computed tomographic colonography. , 2012, 2012, 3740-3.		2
51	Deep learning for electronic cleansing in dual-energy CT colonography. Proceedings of SPIE, 2016, , .	0.8	2
52	Electronic cleansing in CT colonography using a generative adversarial network. , 2019, , .		2
53	Detection of colorectal masses in CT colonography: application of deep residual networks for differentiating masses from normal colon anatomy. , 2018, , .		2
54	Ranking of polyp candidates for CAD in CT colonography. , 2005, , .		1

#	ARTICLE	IF	CITATIONS
55	Centerline-based colon segmentation for CAD of CT colonography. , 2006, , .		1
56	Computer-aided detection of small bowel strictures in CT enterography. , 2011, , .		1
57	Probabilistic method for context-sensitive detection of polyps in CT colonography. Proceedings of SPIE, 2011, 7963, .	0.8	1
58	Comparative Performance of State-of-the-Art Classifiers in Computer-Aided Detection for CT Colonography. Lecture Notes in Computer Science, 2012, , 78-87.	1.3	1
59	Context-specific method for detection of soft-tissue lesions in non-cathartic low-dose dual-energy CT colonography. Proceedings of SPIE, 2015, 9414, 94142Y.	0.8	1
60	Performance evaluation of multi-material electronic cleansing for ultra-low-dose dual-energy CT colonography. , 2016, , .		1
61	Ensemble Detection of Colorectal Lesions for CT Colonography. Lecture Notes in Computer Science, 2012, , 60-67.	1.3	1
62	Automated Detection of Colorectal Lesions in Non-cathartic CT Colonography. Lecture Notes in Computer Science, 2012, , 68-75.	1.3	1
63	Computer-Aided Detection for Ultra-Low-Dose CT Colonography. Lecture Notes in Computer Science, 2012, , 40-48.	1.3	1
64	Iterative Reconstruction for Ultra-Low-Dose Laxative-Free CT Colonography. Lecture Notes in Computer Science, 2013, , 99-106.	1.3	1
65	Computer-Assisted Diagnosis for Quantitative Image-Based Analysis of Crohn's Disease in CT Enterography. Lecture Notes in Computer Science, 2011, , 84-90.	1.3	1
66	Information-Preserving Pseudo-Enhancement Correction for Non-Cathartic Low-Dose Dual-Energy CT Colonography. Lecture Notes in Computer Science, 2014, 8676, 159-168.	1.3	1
67	Application of Pseudo-enhancement Correction to Virtual Monochromatic CT Colonography. Lecture Notes in Computer Science, 2014, 8676, 169-178.	1.3	1
68	<title>Mammographic feature generator for evaluation of image analysis algorithms</title>. , 1997, , .		1
69	CADe Prompts and Observer Performance. Academic Radiology, 2010, 17, 945-947.	2.5	0
70	Volumetric detection of flat lesions for minimal-preparation dual-energy CT colonography. , 2013, , .		0
71	Progressive region-based colon extraction for computer-aided detection and quantitative imaging in cathartic and non-cathartic CT colonography. Proceedings of SPIE, 2014, , .	0.8	0
72	Enhancement of weakly tagged fecal materials in dual-energy CT colonography using spectral-driven iterative reconstruction technique. Proceedings of SPIE, 2017, , .	0.8	0

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73	Electronic cleansing for CT colonography using spectral-driven iterative reconstruction. , 2017, , .		0
74	Deep multi-spectral ensemble learning for electronic cleansing in dual-energy CT colonography. Proceedings of SPIE, 2017, , .	0.8	0
75	Adaptive Volumetric Detection of Lesions for Minimal-Preparation Dual-Energy CT Colonography. Lecture Notes in Computer Science, 2012, , 30-39.	1.3	0
76	Computer-Aided Detection of Colorectal Lesions with Super-Resolution CT Colonography: Pilot Evaluation. Lecture Notes in Computer Science, 2013, 8198, 73-80.	1.3	0
77	Precise Segmentation of Calcifications for Reliable Computerized Diagnosis. Computational Imaging and Vision, 1998, , 483-484.	0.6	0
78	Cycle-consistent 3D-generative adversarial network for virtual bowel cleansing in CT colonography. , 2019, , .		0
79	Electronic cleansing by unpaired contrastive learning in non-cathartic laxative-free CT colonography. , 2022, , .		0