Christopher F Beaulieu

List of Publications by Year
in descending order

56 papers	3,695 citations	172457 29 h-index	175258 52 g-index
56 all docs	56 docs citations	56 times ranked	2948 citing authors

#	Article	IF	Citations
1	Automating Scoliosis Measurements in Radiographic Studies with Machine Learning: Comparing Artificial Intelligence and Clinical Reports. Journal of Digital Imaging, 2022, 35, 524-533.	2.9	7
2	Clinical utility of accelerated MAVRIC-SL with robust-PCA compared to conventional MAVRIC-SL in evaluation of total hip arthroplasties. Skeletal Radiology, 2021, , 1.	2.0	2
3	Artificial Intelligence and Machine Learning Applications in Musculoskeletal Imaging. Advances in Clinical Radiology, 2020, 2, 285-297.	0.2	3
4	Combined 5â€minute doubleâ€echo in steadyâ€state with separated echoes and 2â€minute protonâ€densityâ€weighted 2D FSE sequence for comprehensive wholeâ€joint knee MRI assessment. Journal of Magnetic Resonance Imaging, 2019, 49, e183-e194.	3.4	23
5	Is it painful to be different? Sciatic nerve anatomical variants on MRI and their relationship to piriformis syndrome. European Radiology, 2018, 28, 4681-4686.	4.5	23
6	Deep-learning-assisted diagnosis for knee magnetic resonance imaging: Development and retrospective validation of MRNet. PLoS Medicine, 2018, 15, e1002699.	8.4	409
7	Relevance feedback for enhancing content based image retrieval and automatic prediction of semantic image features: Application to bone tumor radiographs. Journal of Biomedical Informatics, 2018, 84, 123-135.	4.3	29
8	Adaptive local window for level set segmentation of CT and MRI liver lesions. Medical Image Analysis, 2017, 37, 46-55.	11.6	59
9	Computerized Prediction of Radiological Observations Based on Quantitative Feature Analysis: Initial Experience in Liver Lesions. Journal of Digital Imaging, 2017, 30, 506-518.	2.9	2
10	Detection and prevalence of variant sciatic nerve anatomy in relation to the piriformis muscle on MRI. Skeletal Radiology, 2017, 46, 751-757.	2.0	30
11	Bone Tumor Diagnosis Using a NaÃ¯ve Bayesian Model of Demographic and Radiographic Features. Journal of Digital Imaging, 2017, 30, 640-647.	2.9	49
12	Musculotendinous Injuries: Sonographic-guided Interventions. Seminars in Musculoskeletal Radiology, 2017, 21, 470-484.	0.7	2
13	Chondral Rib Fractures in Professional American Football. Orthopaedic Journal of Sports Medicine, 2016, 4, 232596711562762.	1.7	17
14	Piriformis Syndrome With Variant Sciatic Nerve Anatomy: A Case Report. PM and R, 2016, 8, 176-179.	1.6	13
15	Classification of Hypervascular Liver Lesions Based on Hepatic Artery and Portal Vein Blood Supply Coefficients Calculated from Triphasic CT Scans. Journal of Digital Imaging, 2015, 28, 213-223.	2.9	31
16	Content-based image retrieval in radiology: analysis of variability in human perception of similarity. Journal of Medical Imaging, 2015, 2, 025501.	1.5	12
17	A semantic framework for the retrieval of similar radiological images based on medical annotations. , 2014, , .		1
18	A hierarchical knowledge-based approach for retrieving similar medical images described with semantic annotations. Journal of Biomedical Informatics, 2014, 49, 227-244.	4.3	33

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19	On combining image-based and ontological semantic dissimilarities for medical image retrieval applications. Medical Image Analysis, 2014, 18, 1082-1100.	11.6	40
20	Performance and Interpretation of CTC. , 2013, , 73-113.		0
21	On the Feasibility of Predicting Radiological Observations from Computational Imaging Features of Liver Lesions in CT Scans. , 2011, , .		9
22	Content-Based Image Retrieval in Radiology: Current Status and Future Directions. Journal of Digital Imaging, 2011, 24, 208-222.	2.9	321
23	Current Techniques in the Performance, Interpretation, and Reporting of CT Colonography. Gastrointestinal Endoscopy Clinics of North America, 2010, 20, 169-192.	1.4	7
24	Isotropic MRI of the Knee with 3D Fast Spin-Echo Extended Echo-Train Acquisition (XETA): Initial Experience. American Journal of Roentgenology, 2007, 188, 1287-1293.	2.2	181
25	Transparent Rendering of Intraluminal Contrast for 3D Polyp Visualization at CT Colonography. Journal of Computer Assisted Tomography, 2007, 31, 773-779.	0.9	0
26	Polyp Enhancing Level Set Evolution of Colon Wall: Method and Pilot Study. IEEE Transactions on Medical Imaging, 2007, 26, 1649-1656.	8.9	23
27	Articular Cartilage of the Knee: Evaluation with Fluctuating Equilibrium MR Imagingâ€"Initial Experience in Healthy Volunteers. Radiology, 2006, 238, 712-718.	7.3	48
28	CT Colonography: Influence of 3D Viewing and Polyp Candidate Features on Interpretation with Computer-aided Detection. Radiology, 2006, 239, 768-776.	7.3	26
29	Driven equilibrium magnetic resonance imaging of articular cartilage: Initial clinical experience. Journal of Magnetic Resonance Imaging, 2005, 21, 476-481.	3.4	74
30	Rapid Musculoskeletal MRI with Phase-Sensitive Steady-State Free Precession: Comparison with Routine Knee MRI. American Journal of Roentgenology, 2005, 184, 1450-1455.	2.2	37
31	Registration of central paths and colonic polyps between supine and prone scans in computed tomography colonography: Pilot study. Medical Physics, 2004, 31, 2912-2923.	3.0	42
32	Automatic detection and classification of hypodense hepatic lesions on contrast-enhanced venous-phase CT. Medical Physics, 2004, 31, 2584-2593.	3.0	56
33	Surface Normal Overlap: A Computer-Aided Detection Algorithm With Application to Colonic Polyps and Lung Nodules in Helical CT. IEEE Transactions on Medical Imaging, 2004, 23, 661-675.	8.9	221
34	Computed Tomography Colonography. Journal of Computer Assisted Tomography, 2004, 28, 318-326.	0.9	64
35	Comparison of new sequences for high-resolution cartilage imaging. Magnetic Resonance in Medicine, 2003, 49, 700-709.	3.0	106
36	CT colonography: Does improvedzresolution help computer-aided polyp detection?. Medical Physics, 2003, 30, 2663-2674.	3.0	9

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37	Interactive and Interventional Sports Medicine Imaging. Topics in Magnetic Resonance Imaging, 2003, 14, 115-130.	1.2	2
38	Quantification of Distention in CT Colonography: Development and Validation of Three Computer Algorithms. Radiology, 2002, 222, 543-554.	7.3	11
39	Isoattenuating Pancreatic Adenocarcinoma at Multiâ€“Detector Row CT: Secondary Signs. Radiology, 2002, 224, 764-768.	7.3	315
40	Local Staging of Pancreatic Carcinoma with Multiâ€“Detector Row CT: Use of Curved Planar Reformationsâ€”Initial Experience. Radiology, 2002, 225, 759-765.	7.3	129
41	Automated Generation of Curved Planar Reformations from Volume Data: Method and Evaluation. Radiology, 2002, 223, 275-280.	7.3	51
42	Edge displacement field-based classification for improved detection of polyps in CT colonography. IEEE Transactions on Medical Imaging, 2002, 21, 1461-1467.	8.9	86
43	Dynamic MR imaging and stress testing in glenohumeral instability: Comparison with normal shoulders and clinical/surgical findings. Journal of Magnetic Resonance Imaging, 2001, 13, 748-756.	3.4	32
44	Multidetector CT of the Pancreas and Bile Duct System. American Journal of Roentgenology, 2001, 176, 689-693.	2.2	101
45	Using Optical Flow Fields for Polyp Detection in Virtual Colonoscopy. Lecture Notes in Computer Science, 2001, , 637-644.	1.3	10
46	Stair-Step Artifacts with Single versus Multiple Detector-Row Helical CT. Radiology, 2000, 216, 185-196.	7.3	95
47	Automated Polyp Detector for CT Colonography: Feasibility Study. Radiology, 2000, 216, 284-290.	7.3	214
48	Focal Liver Lesions: Pattern-based Classification Scheme for Enhancement at Arterial Phase CT. Radiology, 2000, 215, 746-751.	7.3	178
49	Computed tomography and magnetic resonance colonography (Virtual colonoscopy). Techniques in Gastrointestinal Endoscopy, 2000, 2, 30-36.	0.3	2
50	Visualization Modes for CT Colonography Using Cylindrical and Planar Map Projections. Journal of Computer Assisted Tomography, 2000, 24, 179-188.	0.9	81
51	Display Modes for CT Colonography. Radiology, 1999, 212, 195-201.	7.3	35
52	Display Modes for CT Colonography. Radiology, 1999, 212, 203-212.	7.3	117
53	Automated flight path planning for virtual endoscopy. Medical Physics, 1998, 25, 629-637.	3.0	145
54	Detection of Colonic Polyps in a Phantom Model: Implications for Virtual Colonoscopy Data Acquisition. Journal of Computer Assisted Tomography, 1998, 22, 656-663.	0.9	45

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55	Relaxometry of lens homogenates. II. temperature dependence and comparison with other proteins. Magnetic Resonance in Medicine, 1989, 10, 362-372.	3.0	16
56	Relaxometry of calf lens homogenates, including cross-relaxation by crystallin NH groups. Magnetic Resonance in Medicine, 1988, 8, 45-57.	3.0	21