Lucas van Vliet

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/965995/publications.pdf

Version: 2024-02-01

242 papers	5,640 citations	81900 39 h-index	128289 60 g-index

247 all docs	247 docs citations	247 times ranked	5845 citing authors

#	Article	IF	Citations
1	Recursive implementation of the Gaussian filter. Signal Processing, 1995, 44, 139-151.	3.7	283
2	Standardized evaluation framework for evaluating coronary artery stenosis detection, stenosis quantification and lumen segmentation algorithms in computed tomography angiography. Medical Image Analysis, 2013, 17, 859-876.	11.6	163
3	A quantitative comparison of image restoration methods for confocal microscopy. Journal of Microscopy, 1997, 185, 354-365.	1.8	153
4	Separable Bilateral Filtering for Fast Video Preprocessing. , 0, , .		147
5	A nonlinear laplace operator as edge detector in noisy images. Computer Vision, Graphics, and Image Processing, 1989, 45, 167-195.	1.0	137
6	Robust Fusion of Irregularly Sampled Data Using Adaptive Normalized Convolution. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.7	136
7	The impact of freeze-drying on microstructure and rehydration properties of carrot. Food Research International, 2012, 49, 687-693.	6.2	136
8	FISH and chips: Automation of fluorescent dot counting in interphase cell nuclei. Cytometry, 1997, 28, 1-10.	1.8	116
9	Mean and variance of ratio estimators used in fluorescence ratio imaging. Cytometry, 2000, 39, 300-305.	1.8	102
10	Recursive Gaussian derivative filters. , 0, , .		93
11	Image formation modeling in cryo-electron microscopy. Journal of Structural Biology, 2013, 183, 19-32.	2.8	90
12	Theory of confocal fluorescence imaging in the programmable array microscope (PAM). Journal of Microscopy, 1998, 189, 192-198.	1.8	88
13	Hardware and software requirements for quantitative analysis of comparative genomic hybridization. Cytometry, 1995, 19, 4-9.	1.8	86
14	Grain size stabilisation by dispersed graphite in a high-grade quartz mylonite: an example from Naxos (Greece). Journal of Structural Geology, 2003, 25, 855-866.	2.3	76
15	<title>Methods for CCD camera characterization</title>. , 1994, 2173, 73.		74
16	Reconstruction of optical pathlength distributions from images obtained by a wideâ€field differential interference contrast microscope. Journal of Microscopy, 1997, 188, 149-157.	1.8	73
17	Low-level image processing by max-min filters. Signal Processing, 1988, 15, 249-258.	3.7	71
18	Recursive Gabor filtering. IEEE Transactions on Signal Processing, 2002, 50, 2798-2805.	5.3	71

#	Article	IF	Citations
19	Automatic segmentation, detection and quantification of coronary artery stenoses on CTA. International Journal of Cardiovascular Imaging, 2013, 29, 1847-1859.	1.5	69
20	Image Registration Based on Autocorrelation of Local Structure. IEEE Transactions on Medical Imaging, 2016, 35, 63-75.	8.9	68
21	Vessel Specific Coronary Artery Calcium Scoring. Academic Radiology, 2013, 20, 1-9.	2.5	67
22	A contour processing method for fast binary neighbourhood operations. Pattern Recognition Letters, 1988, 7, 27-36.	4.2	66
23	The influence of the regularization parameter and the first estimate on the performance of Tikhonov regularized non-linear image restoration algorithms. Journal of Microscopy, 2000, 198, 63-75.	1.8	64
24	An evaluation of automatic coronary artery calcium scoring methods with cardiac CT using the orCaScore framework. Medical Physics, 2016, 43, 2361-2373.	3.0	63
25	Detection and Segmentation of Colonic Polyps on Implicit Isosurfaces by Second Principal Curvature Flow. IEEE Transactions on Medical Imaging, 2010, 29, 688-698.	8.9	59
26	Edge preserving orientation adaptive filtering. , 0, , .		57
27	An Automated System for the Detection and Classification of Retinal Changes Due to Red Lesions in Longitudinal Fundus Images. IEEE Transactions on Biomedical Engineering, 2018, 65, 1382-1390.	4.2	56
28	Shaving diffusion tensor images in discriminant analysis: A study into schizophrenia. Medical Image Analysis, 2006, 10, 841-849.	11.6	55
29	Computer-Aided Detection of Polyps in CT Colonography Using Logistic Regression. IEEE Transactions on Medical Imaging, 2010, 29, 120-131.	8.9	54
30	The determination of relative path length as a measure for tortuosity in compacts using image analysis. European Journal of Pharmaceutical Sciences, 2006, 28, 433-440.	4.0	53
31	Epicardial fat volume is related to atherosclerotic calcification in multiple vessel beds. European Heart Journal Cardiovascular Imaging, 2015, 16, 1264-1269.	1.2	50
32	Automatic quantification of epicardial fat volume on nonâ€enhanced cardiac CT scans using a multiâ€atlas segmentation approach. Medical Physics, 2013, 40, 091910.	3.0	49
33	Loosely coupled level sets for simultaneous 3D retinal layer segmentation in optical coherence tomography. Medical Image Analysis, 2015, 26, 146-158.	11.6	49
34	On the location error of curved edges in low-pass filtered 2-D and 3-D images. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1994, 16, 726-733.	13.9	48
35	Semiautomatic carotid lumen segmentation for quantification of lumen geometry in multispectral MRI. Medical Image Analysis, 2012, 16, 1202-1215.	11.6	47
36	Fully convolutional architecture vs sliding-window CNN for corneal endothelium cell segmentation. BMC Biomedical Engineering, 2019, 1, 4.	2.6	47

#	Article	IF	Citations
37	3-D IMAGING, ANALYSIS AND MODELLING OF POROUS CEREAL PRODUCTS USING X-RAY MICROTOMOGRAPHY. Image Analysis and Stereology, 2007, 26, 169.	0.9	47
38	Statistical descriptions of scaphoid and lunate bone shapes. Journal of Biomechanics, 2010, 43, 1463-1469.	2.1	44
39	Joint Segmentation of Retinal Layers and Focal Lesions in 3-D OCT Data of Topologically Disrupted Retinas. IEEE Transactions on Medical Imaging, 2017, 36, 1276-1286.	8.9	44
40	Curvature estimation in oriented patterns using curvilinear models applied to gradient vector fields. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2001, 23, 1035-1042.	13.9	43
41	Estimation of Diffusion Properties in Crossing Fiber Bundles. IEEE Transactions on Medical Imaging, 2010, 29, 1504-1515.	8.9	43
42	The effect of rice kernel microstructure on cooking behaviour: A combined Î¼-CT and MRI study. Food Chemistry, 2009, 115, 1491-1499.	8.2	42
43	Multiframe Super-Resolution Reconstruction of Small Moving Objects. IEEE Transactions on Image Processing, 2010, 19, 2901-2912.	9.8	42
44	When to use the projection assumption and the weak-phase object approximation in phase contrast cryo-EM. Ultramicroscopy, 2014, 136, 61-66.	1.9	42
45	On curvature estimation of ISO surfaces in 3D gray-value images and the computation of shape descriptors. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 1088-1094.	13.9	40
46	Ring formation in nanoliter cups: Quantitative measurements of flow in micromachined wells. Physical Review E, 2003, 68, 036312.	2.1	39
47	Quantitative Assessment of Gas Cell Development During the Proofing of Dough by Magnetic Resonance Imaging and Image Analysis. Cereal Chemistry, 2003, 80, 390-395.	2.2	38
48	Performance of optimal registration estimators. , 2005, 5817, 133.		37
49	A fast algorithm for computing and correcting the CTF for tilted, thick specimens in TEM. Ultramicroscopy, 2011, 111, 1029-1036.	1.9	37
50	Quantitative Image Analysis for Evaluating the Coating Thickness and Pore Distribution in Coated Small Particles. Pharmaceutical Research, 2009, 26, 965-976.	3.5	35
51	Background estimation in nonlinear image restoration. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 425.	1.5	34
52	The generalized Radon transform: Sampling, accuracy and memory considerations. Pattern Recognition, 2005, 38, 2494-2505.	8.1	34
53	Corneal Endothelial Cell Segmentation by Classifier-Driven Merging of Oversegmented Images. IEEE Transactions on Medical Imaging, 2018, 37, 2278-2289.	8.9	33
54	DNA Deformations near Charged Surfaces: Electron and Atomic Force Microscopy Views. Biophysical Journal, 2009, 97, 1148-1157.	0.5	31

#	Article	IF	Citations
55	A toolkit for the characterization of CCD cameras for transmission electron microscopy. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 97-109.	2.5	31
56	Curvature of n-dimensional space curves in grey-value images. IEEE Transactions on Image Processing, 2002, 11, 738-745.	9.8	30
57	Accuracy Assessment of Intra- and Intervisit Fundus Image Registration for Diabetic Retinopathy Screening. Investigative Ophthalmology and Visual Science, 2015, 56, 1805-1812.	3.3	30
58	Alignment of the cell nucleus from labeled proteins only for 4D in vivo imaging. Microscopy Research and Technique, 2004, 64, 142-150.	2.2	29
59	Nanoarrays:Â A Method for Performing Enzymatic Assays. Analytical Chemistry, 2004, 76, 4112-4117.	6.5	29
60	Expiration-Phase Template-Based Motion Correction of Free-Breathing Abdominal Dynamic Contrast Enhanced MRI. IEEE Transactions on Biomedical Engineering, 2015, 62, 1215-1225.	4.2	28
61	Locally-adaptive loosely-coupled level sets for retinal layer and fluid segmentation in subjects with central serous retinopathy. , 2016, , .		28
62	The athena semi-automated karyotyping system. Cytometry, 1990, 11, 51-58.	1.8	26
63	Calibration of the automated z â€axis of a microscope using focus functions. Journal of Microscopy, 1997, 186, 270-274.	1.8	26
64	Total variation minimization approach in in-line x-ray phase-contrast tomography. Optics Express, 2013, 21, 12185.	3.4	26
65	Deep Learning for Assessing the Corneal Endothelium from Specular Microscopy Images up to 1 Year after Ultrathin-DSAEK Surgery. Translational Vision Science and Technology, 2020, 9, 49.	2.2	26
66	Electronic Cleansing for Computed Tomography (CT) Colonography Using a Scale-Invariant Three-Material Model. IEEE Transactions on Biomedical Engineering, 2010, 57, 1306-1317.	4.2	25
67	Phase retrieval in in-line x-ray phase contrast imaging based on total variation minimization. Optics Express, 2013, 21, 710.	3.4	25
68	Image filtering in structured illumination microscopy using the Lukosz bound. Optics Express, 2013, 21, 24431.	3.4	25
69	Comparison between dynamic gadoxetate-enhanced MRI and 99mTc-mebrofenin hepatobiliary scintigraphy with SPECT for quantitative assessment of liver function. European Radiology, 2019, 29, 5063-5072.	4.5	25
70	Temporal phase-unwrapping algorithm for dynamic interference pattern analysis in interference-contrast microscopy. Applied Optics, 2001, 40, 4487.	2.1	24
71	A New Sharpness Measure Based on Gaussian Lines and Edges. Lecture Notes in Computer Science, 2003, , 149-156.	1.3	24
72	Classifying CT Image Data Into Material Fractions by a Scale and Rotation Invariant Edge Model. IEEE Transactions on Image Processing, 2007, 16, 2891-2904.	9.8	24

#	Article	IF	Citations
73	Monitoring enzymatic reactions in nanolitre wells. Journal of Microscopy, 2003, 212, 254-263.	1.8	23
74	Rehydration kinetics of freeze-dried carrots. Innovative Food Science and Emerging Technologies, 2014, 24, 40-47.	5.6	23
75	Lesion Conspicuity and Efficiency of CT Colonography with Electronic Cleansing Based on a Three-Material Transition Model. American Journal of Roentgenology, 2008, 191, 1493-1502.	2.2	22
76	Precise and unbiased estimation of astigmatism and defocus in transmission electron microscopy. Ultramicroscopy, 2012, 116, 115-134.	1.9	22
77	Differences in Nuclear DNA Organization Between Lymphocytes, Hodgkin and Reedâ€“Sternberg Cells Revealed by Structured Illumination Microscopy. Journal of Cellular Biochemistry, 2014, 115, 1441-1448.	2.6	22
78	Point spread function based image reconstruction in optical projection tomography. Physics in Medicine and Biology, 2017, 62, 7784-7797.	3.0	22
79	Computed Cleansing for Virtual Colonoscopy Using a Three-Material Transition Model. Lecture Notes in Computer Science, 2003, , 175-183.	1.3	21
80	Constrained Registration of the Wrist Joint. IEEE Transactions on Medical Imaging, 2009, 28, 1861-1869.	8.9	21
81	Fast, spatially varying CTF correction in TEM. Ultramicroscopy, 2012, 118, 26-34.	1.9	21
82	Lumen segmentation and stenosis quantification of atherosclerotic carotid arteries in CTA utilizing a centerline intensity prior. Medical Physics, 2013, 40, 051721.	3.0	21
83	Autofocusing in microscopy based on the OTF and sampling. Bioimaging, 1994, 2, 193-203.	1.3	20
84	A systematic approach to nD orientation representation. Image and Vision Computing, 2004, 22, 453-459.	4.5	20
85	Improving the accuracy of isotropic granulometries. Pattern Recognition Letters, 2007, 28, 865-872.	4.2	20
86	The Applicability of Neural Networks to Non-linear Image Processing. Pattern Analysis and Applications, 1999, 2, 111-128.	4.6	19
87	Modeling of scanning laser polarimetry images of the human retina for progression detection of glaucoma. IEEE Transactions on Medical Imaging, 2006, 25, 517-528.	8.9	19
88	Quantifying resolution limiting factors in subtomogram averaged cryo-electron tomography using simulations. Journal of Structural Biology, 2014, 187, 103-111.	2.8	19
89	Fluorescent dot counting in interphase cell nuclei. Bioimaging, 1996, 4, 93-106.	1.3	18
90	Quantitative evaluation of light microscopes based on image processing techniques. Bioimaging, 1998, 6, 138-149.	1.3	18

#	Article	IF	Citations
91	Performance Evaluation of Super-Resolution Reconstruction Methods on Real-World Data. Eurasip Journal on Advances in Signal Processing, 2007, 2007, .	1.7	18
92	A 4D Statistical Model of Wrist Bone Motion Patterns. IEEE Transactions on Medical Imaging, 2012, 31, 613-625.	8.9	18
93	Additional Diagnostic Value of Integrated Analysis of Cardiac CTA and SPECT MPI Using the SMARTVis System in Patients with Suspected Coronary Artery Disease. Journal of Nuclear Medicine, 2014, 55, 50-57.	5.0	18
94	Feasibility of a fast method for B1-inhomogeneity correction for FSPGR sequences. Magnetic Resonance Imaging, 2015, 33, 312-318.	1.8	18
95	A Hierarchical Coarse-to-Fine Approach for Fundus Image Registration. Lecture Notes in Computer Science, 2014, , 93-102.	1.3	18
96	Correction for the dislocation of curved surfaces caused by the PSF in 2D and 3D CT images. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 1501-1507.	13.9	17
97	Computational modeling for assessment of IBD: To be or not to be?. , 2012, 2012, 3974-7.		17
98	Segmentation and Size Measurement of Polyps in CT Colonography. Lecture Notes in Computer Science, 2005, 8, 712-719.	1.3	17
99	High-resolution reservoir characterization by an acoustic impedance inversion of a Tertiary deltaic clinoform system in the North Sea. Geophysics, 2010, 75, O57-O67.	2.6	16
100	Normalized Averaging Using Adaptive Applicability Functions with Applications in Image Reconstruction from Sparsely and Randomly Sampled Data. Lecture Notes in Computer Science, 2003, , 485-492.	1.3	16
101	Nonlinear image processing using artificial neural networks. Advances in Imaging and Electron Physics, 2003, 126, 351-450.	0.2	15
102	Influence of signal-to-noise ratio and point spread function on limits of superresolution. , 2005, , .		15
103	Supporting knowledge-intensive inspection tasks with application ontologies. International Journal of Human Computer Studies, 2006, 64, 974-983.	5.6	15
104	Super-Resolution on Moving Objects and Background. , 2006, , .		15
105	Estimators of 2D edge length and position, 3D surface area and position in sampled greyâ€valued images. Bioimaging, 1993, 1, 47-61.	1.3	15
106	Adaptive Noise Filtering for Accurate and Precise Diffusion Estimation in Fiber Crossings. Lecture Notes in Computer Science, 2010, 13, 167-174.	1.3	15
107	Optical quality assessment of whole slide imaging systems for digital pathology. Optics Express, 2015, 23, 1319.	3.4	14
108	Semi-automatic bowel wall thickness measurements on MR enterography in patients with Crohn's disease. British Journal of Radiology, 2017, 90, 20160654.	2.2	14

#	Article	IF	Citations
109	Semiautomatic Assessment of the Terminal Ileum and Colon in Patients with Crohn Disease Using MRI (the VIGOR++ Project). Academic Radiology, 2018, 25, 1038-1045.	2.5	14
110	BINARY AND GREY-VALUE SKELETONS: METRICS AND ALGORITHMS. International Journal of Pattern Recognition and Artificial Intelligence, 1993, 07, 1287-1308.	1.2	13
111	3D-Orientation Space; Filters and Sampling. Lecture Notes in Computer Science, 2003, , 36-42.	1.3	13
112	‹title›Fluorescence detection in (sub-)nanoliter microarrays‹/title›. , 1999, 3606, 28.		12
113	A statistical description of the articulating ulna surface for prosthesis design. , 2009, , .		12
114	Comparison of image reconstruction techniques for optical projection tomography. Applied Optics, 2018, 57, 1874.	1.8	12
115	Detection of Protrusions in Curved Folded Surfaces Applied to Automated Polyp Detection in CT Colonography. Lecture Notes in Computer Science, 2006, 9, 471-478.	1.3	12
116	Robust Curve Detection Using a Radon Transform in Orientation Space. Lecture Notes in Computer Science, 2003, , 125-132.	1.3	12
117	A statistical shape model without using landmarks. , 2004, , .		11
118	Robust local max-min filters by normalized power-weighted filtering. , 2004, , .		11
119	Location-Dependent Analysis of Porosity and Pore Direction in Tablets. Pharmaceutical Research, 2005, 22, 1399-1405.	3.5	11
120	Comparison of Multi-Tensor Diffusion Models' Performance for White Matter Integrity Estimation in Chronic Stroke. Frontiers in Neuroscience, 2018, 12, 247.	2.8	11
121	Confidence and curvature estimation of curvilinear structures in 3-D. , 0, , .		10
122	Discrete Morphology with Line Structuring Elements. Lecture Notes in Computer Science, 2003, , 722-729.	1.3	10
123	Using line segments as structuring elements for sampling-invariant measurements. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 1826-1831.	13.9	10
124	Resolution enhancement of low-quality videos using a high-resolution frame. , 2006, 6077, 88.		10
125	Nonrigid Point Set Matching of White Matter Tracts for Diffusion Tensor Image Analysis. IEEE Transactions on Biomedical Engineering, 2011, 58, 2431-2440.	4.2	10
126	A fast scanner for fluorescence microscopy using a 2â€Ð CCD and time delayed integration. Bioimaging, 1994, 2, 184-192.	1.3	10

#	Article	IF	Citations
127	On Normalized Convolution to Measure Curvature Features for Automatic Polyp Detection. Lecture Notes in Computer Science, 2004, , 200-208.	1.3	10
128	Analysis of attenuation coefficient estimation in Fourier-domain OCT of semi-infinite media. Biomedical Optics Express, 2020, 11, 6093.	2.9	10
129	Measurement and application of an infrared image restoration filter to improve the accuracy of surface temperature measurements of cubes. Experiments in Fluids, 1999, 26, 86-96.	2.4	9
130	Protrusion Method for Automated Estimation of Polyp Size on CT Colonography. American Journal of Roentgenology, 2008, 190, 1279-1285.	2.2	9
131	A patient-specific coronary density estimate. , 2010, , .		9
132	Loosely coupled level sets for retinal layer segmentation in optical coherence tomography. , 2013, , .		9
133	<title>Application of image restoration methods for confocal fluorescence microscopy</title>. , 1997, , .		8
134	Improving resolution to reduce aliasing in an undersampled image sequence. , 2000, , .		8
135	Representing Orientation in n-Dimensional Spaces. Lecture Notes in Computer Science, 2003, , 17-24.	1.3	8
136	Diffusion of microspheres in sealed and open microarrays. Microscopy Research and Technique, 2004, 65, 218-225.	2.2	8
137	Expert-Based Ontology Construction: A Case-Study in Horticulture. , 0, , .		8
138	Pore size distribution in tablets measured with a morphological sieve. International Journal of Pharmaceutics, 2007, 342, 176-183.	5.2	8
139	Pore Direction in Relation to Anisotropy of Mechanical Strength in a Cubic Starch Compact. AAPS PharmSciTech, 2008, 9, 528-535.	3.3	8
140	Three-dimensional morphology of cementite in steel studied by X-ray phase-contrast tomography. Scripta Materialia, 2012, 67, 261-264.	5.2	8
141	Estimation of diffusion properties in three-way fiber crossings without overfitting. Physics in Medicine and Biology, 2015, 60, 9123-9144.	3.0	8
142	Simulation of scanner- and patient-specific low-dose CT imaging from existing CT images. Physica Medica, 2017, 36, 12-23.	0.7	8
143	An Efficient Method for Multi-Parameter Mapping in Quantitative MRI Using B-Spline Interpolation. IEEE Transactions on Medical Imaging, 2020, 39, 1681-1689.	8.9	8
144	A Semi-automatic Method for Segmentation of the Carotid Bifurcation and Bifurcation Angle Quantification on Black Blood MRA. Lecture Notes in Computer Science, 2010, 13, 97-104.	1.3	8

#	Article	IF	Citations
145	An Edge Detection Model Based on Non-Linear Laplace Filtering. Machine Intelligence and Pattern Recognition, 1988, , 63-73.	0.2	8
146	Experience with the athena semi-automated karyotyping system. Cytometry, 1990, 11, 59-72.	1.8	7
147	Edge localization by MoG filters: Multiple-of-Gaussians. Pattern Recognition Letters, 1994, 15, 485-496.	4.2	7
148	Better geometric measurements based on photometric information. , 0, , .		7
149	Superresolution reconstruction for moving point target detection. Optical Engineering, 2008, 47, 096401.	1.0	7
150	Robust super-resolution by minimizing a Gaussian-weightedL₂error norm. Journal of Physics: Conference Series, 2008, 124, 012037.	0.4	7
151	Automated Detection and Segmentation of Large Lesions in CT Colonography. IEEE Transactions on Biomedical Engineering, 2010, 57, 675-684.	4.2	7
152	Three-dimensional structured illumination microscopy using Lukosz bound apodization reduces pixel negativity at no resolution cost. Optics Express, 2014, 22, 11215.	3.4	7
153	Semi-automatic MRI segmentation and volume quantification of intra-plaque hemorrhage. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 67-74.	2.8	7
154	Estimating the arterial input function from dynamic contrastâ€enhanced MRI data with compensation for flow enhancement (I): Theory, method, and phantom experiments. Journal of Magnetic Resonance Imaging, 2018, 47, 1190-1196.	3.4	7
155	Convolutional neural network-based regression for biomarker estimation in corneal endothelium microscopy images. , 2019, 2019, 876-881.		7
156	Automation of fluorescent dot counting in cell nuclei. , 0, , .		6
157	Improved curvature and anisotropy estimation for curved line bundles. , 0, , .		6
158	<title>Influence of background estimation on the superresolution properties of nonlinear image restoration algorithms</title>. , 1999, , .		6
159	Characterization of an xâ€ray phase contrast imaging system based on the miniature synchrotron MIRRORCLEâ€6X. Medical Physics, 2011, 38, 5136-5145.	3.0	6
160	Electronic Cleansing for 24-H Limited Bowel Preparation CT Colonography Using Principal Curvature Flow. IEEE Transactions on Biomedical Engineering, 2013, 60, 3036-3045.	4.2	6
161	Finding the Minimum-Cost Path Without Cutting Corners. Lecture Notes in Computer Science, 2007, , 263-272.	1.3	6
162	Localized Component Analysis for Arthritis Detection in the Trapeziometacarpal Joint. Lecture Notes in Computer Science, 2011, 14, 360-367.	1.3	6

#	Article	IF	Citations
163	An Efficient and Robust Algorithm for Parallel Groupwise Registration of Bone Surfaces. Lecture Notes in Computer Science, 2012, 15, 164-171.	1.3	6
164	Automatic detection of the region of interest in corneal endothelium images using dense convolutional neural networks. , 2019, , .		6
165	A fast scanner for fluorescence microscopy using a 2-D CCD and time delayed integration. Bioimaging, 1994, 2, 184-192.	1.3	5
166	<title>Quantitative interferometric imaging using a conventional differential interference contrast microscope</title>. , 1997, 2982, 458.		5
167	Miniaturized analytical assays in biotechnology. Biotechnology Advances, 2003, 21, 431-444.	11.7	5
168	Toward the development of a three-dimensional mid-field microscope. , 2004, 5327, 115.		5
169	Multi-orientation analysis by decomposing the structure tensor and clustering. , 2006, , .		5
170	Combining mesh, volume, and streamline representations for polyp detection in CT colonography. , 2009, , .		5
171	Reliable Dual Tensor Model Estimation in Single and Crossing Fibers Based on Jeffreys Prior. PLoS ONE, 2016, 11, e0164336.	2.5	5
172	Attenuation coefficient estimation in Fourier-domain OCT of multi-layered phantoms. Biomedical Optics Express, 2021, 12, 2744.	2.9	5
173	<title>Monitoring enzyme-catalyzed reactions in micromachined nanoliter wells using a conventional microscope-based microarray reader</title>. , 2002, , .		4
174	Regularized phase tracker with isophase scanning strategy for analysis of dynamic interferograms of nonwetting droplets under excitation. Applied Optics, 2005, 44, 2695.	2.1	4
175	Performance study on point target detection using super-resolution reconstruction. Proceedings of SPIE, 2009, , .	0.8	4
176	Multispectral MRI centerline tracking in carotid arteries. , 2011, , .		4
177	Automatic detection of calcified lesions in the descending aorta using contrast enhanced CT scans. , 2012, , .		4
178	Segmentation of Locally Varying Numbers of Outer Retinal Layers by a Model Selection Approach. IEEE Transactions on Medical Imaging, 2017, 36, 1306-1315.	8.9	4
179	Estimating the arterial input function from dynamic contrastâ€enhanced MRI data with compensation for flow enhancement (II): Applications in spine diagnostics and assessment of crohn's disease. Journal of Magnetic Resonance Imaging, 2018, 47, 1197-1204.	3.4	4
180	Basic Morphological Operations, Band-Limited Images and Sampling. Lecture Notes in Computer Science, 2003, , 313-324.	1.3	4

#	Article	IF	Citations
181	Athena: A Macintosh-Based Interactive Karyotyping System. , 1989, , 47-66.		4
182	Dual Tensor Atlas Generation Based on a Cohort of Coregistered non-HARDI Datasets. Lecture Notes in Computer Science, 2009, 12, 869-876.	1.3	4
183	Impact of partial coherence on the apparent optical transfer function derived from the response to amplitude edges. Applied Optics, 2017, 56, 3518.	2.1	4
184	Recursive Gabor filtering. , 0, , .		3
185	Pore shape in the sodium chloride matrix of tablets after the addition of starch as a second component. European Journal of Pharmaceutics and Biopharmaceutics, 2008, 70, 539-543.	4.3	3
186	Measuring murine chromosome orientation in interphase nuclei. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 733-740.	1.5	3
187	CSF contamination-invariant statistics in diffusion-weighted MRI. , 2015, , .		3
188	Method for segmentation of the layers in the outer retina. , 2015, 2015, 5646-9.		3
189	Improved registration of DCE-MR images of the liver using a prior segmentation of the region of interest. , 2016, , .		3
190	Improved Accuracy and Robustness of a Corneal Endothelial Cell Segmentation Method Based on Merging Superpixels. Lecture Notes in Computer Science, 2018, , 631-638.	1.3	3
191	Mean and variance of ratio estimators used in fluorescence ratio imaging. , 2000, 39, 300.		3
192	Estimation of Curvature Based Shape Properties of Surfaces in 3D Grey-Value Images. Lecture Notes in Computer Science, 2003, , 262-267.	1.3	3
193	Spatial Consistency in 3D Tract-Based Clustering Statistics. Lecture Notes in Computer Science, 2008, 11, 535-542.	1.3	3
194	3D Non-rigid Motion Correction of Free-Breathing Abdominal DCE-MRI Data. Lecture Notes in Computer Science, 2012, , 44-50.	1.3	3
195	A hybrid segmentation method for partitioning the liver based on 4D DCE-MR Images. , 2018, , .		3
196	Fluorescence imaging for whole slide scanning using LED-based color sequential illumination. , 2018, , .		3
197	An estimator of edge length and surface area in digitized 2D and 3D images. , 0, , .		2
198	Nanometer-scale height measurements in micromachined picoliter vials based on interference fringe analysis. , 0, , .		2

#	Article	IF	Citations
199	‹title›Measuring liquid volumes in subnanoliter wells‹/title›. , 2001, , .		2
200	Curvature estimation of surfaces in 3D grey-value images. , 0, , .		2
201	LINEAR AND KERNEL FISHER DISCRIMINANT ANALYSIS FOR STUDYING DIFFUSION TENSOR IMAGES IN SCHIZOPHRENIA. , 2007, , .		2
202	Parameterization of meander-belt elements in high-resolution three-dimensional seismic data using the GeoTime cube and modern analogues. Geological Society Special Publication, 2007, 277, 121-137.	1.3	2
203	Gridifying a Diffusion Tensor Imaging Analysis Pipeline. , 2010, , .		2
204	Shack-Hartmann sensor based optical quality testing of whole slide imaging systems for digital pathology. , 2015, , .		2
205	Automatic estimation of retinal nerve fiber bundle orientation in SD-OCT images using a structure-oriented smoothing filter. Proceedings of SPIE, 2017, , .	0.8	2
206	Detection of retinal changes from illumination normalized fundus images using convolutional neural networks. , 2017, , .		2
207	CSF contamination-invariant statistics in conventional diffusion-weighted MRI of the fornix. Biomedical Physics and Engineering Express, 2017, 3, 065003.	1.2	2
208	A hybrid optimization strategy for registering images with large local deformations and intensity variations. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 343-351.	2.8	2
209	FISH and chips: Automation of fluorescent dot counting in interphase cell nuclei. Cytometry, 1997, 28, 1-10.	1.8	2
210	A Crossing Detector Based on the Structure Tensor. Lecture Notes in Computer Science, 2007, , 212-220.	1.3	2
211	Junction Detection and Multi-orientation Analysis Using Streamlines. Lecture Notes in Computer Science, 2007, , 718-725.	1.3	2
212	Highâ€resolution clinoform characterization by 2â€D modelâ€driven seismic Bayesian inversion. , 2007, , .		2
213	Line and edge detection by symmetry filters. , 0, , .		1
214	CONSTRAINED REGISTRATION OF MULTIPLE RIGID OBJECTS IN CLOSE PROXIMITY: APPLICATION IN THE WRIST JOINT. , 2007, , .		1
215	Super-Resolution on small moving objects. , 2008, , .		1
216	Estimation of defocus and astigmatism in transmission electron microscopy. , 2010, , .		1

#	Article	IF	Citations
217	In-line x-ray phase-contrast tomography and diffraction-contrast tomography study of the ferrite-cementite microstructure in steel. , 2012, , .		1
218	The Effect of Structure and Imbibition Mode on the Rehydration Kinetics of Freeze-dried Carrots. Special Publication - Royal Society of Chemistry, 2013, , 112-121.	0.0	1
219	Rank-2 model-order selection in diffusion tensor MRI: Infromation complexity based on the total Kullback-Leibler divergence. , 2015, , .		1
220	Image registration based on the structure tensor of the local phase. , 2015, , .		1
221	Noise-adaptive attenuation coefficient estimation in spectral domain optical coherence tomography data. , 2016, , .		1
222	A pharmacokinetic model including arrival time for two inputs and compensating for varying applied flip-angle in dynamic gadoxetic acid-enhanced MR imaging. PLoS ONE, 2019, 14, e0220835.	2.5	1
223	Orientation Prior and Consistent Model Selection Increase Sensitivity of Tract-Based Spatial Statistics in Crossing-Fiber Regions. IEEE Transactions on Medical Imaging, 2020, 39, 308-319.	8.9	1
224	Mean and variance of ratio estimators used in fluorescence ratio imaging This research was presented at ASCI'95, First Annual Conference of the Advanced School for Computing and Imaging, Heijen, The Netherlands, 16â€“18 May 1995.. Cytometry, 2000, 39, 300.	1.8	1
225	Estimators of 2D edge length and position, 3D surface area and position in sampled grey-valued images. , 1993, 1, 47.		1
226	Self Similarity Image Registration Based on Reorientation of the Hessian. Lecture Notes in Computer Science, 2013, , 20-28.	1.3	1
227	Highâ€resolution reservoir characterization by 2â€D modelâ€driven seismic Bayesian inversion: An example from a Tertiary deltaic clinoform system in the North Sea. , 2008, , .		1
228	A Comparison of the Cingulum Tract in ALS-B Patients and Controls Using Kernel Matching. Lecture Notes in Computer Science, 2010, 13, 249-256.	1.3	1
229	Accurate estimation of the attenuation coefficient from axial point spread function corrected OCT scans of a single layer phantom. , 2018, , .		1
230	Design of a Wide Field High Sensitivity Imaging System for Quantitative Analysis of CGHA Micro-Arrays.. Microscopy and Microanalysis, 1997, 3, 811-812.	0.4	0
231	Monitoring enzymatic reactions with in situ sensors. , 2003, , .		0
232	Quantitative imaging: how to measure size features in digitized images. , 0, , .		0
233	PRUNING DATASETS IN DISCRIMINANT ANALYSIS: A DTI STUDY TO SCHIZOPHRENIA. , 2007, , .		0
234	Thin layer tissue classification for electronic cleansing of CT colonography data. , 2008, , .		0

#	Article	IF	Citations
235	Lumen segmentation of atherosclerotic carotid arteries in CTA. , 2012, , .		0
236	Estimating diffusion properties in complex fiber configurations based on structure-adaptive multi-valued tensor-field filtering. Proceedings of SPIE, 2015, , .	0.8	0
237	Loosely coupled level sets for retinal layers and drusen segmentation in subjects with dry age-related macular degeneration. Proceedings of SPIE, 2016, , .	0.8	0
238	Longitudinal analysis of diffusion-weighted MRI with a ball-and-sticks model. , 2017, , .		0
239	Generating Fiber Crossing Phantoms Out of Experimental DWIs. Lecture Notes in Computer Science, 2007, 10, 169-176.	1.3	0
240	Recognition of Protruding Objects in Highly Structured Surroundings by Structural Inference. Lecture Notes in Computer Science, 2009, , 41-50.	1.3	0
241	Groupwise Rigid Registration of Wrist Bones. Lecture Notes in Computer Science, 2012, 15, 155-162.	1.3	0
242	BINARY AND GREY-VALUE SKELETONS: METRICS AND ALGORITHMS. Series in Machine Perception and Artificial Intelligence, 1994, , 323-344.	0.1	0