

Lucas van Vliet

List of Publications by Year in descending order

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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	Attenuation coefficient estimation in Fourier-domain OCT of multi-layered phantoms. Biomedical Optics Express, 2021, 12, 2744.	2.9	5
2	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
3	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
4	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
5	Analysis of attenuation coefficient estimation in Fourier-domain OCT of semi-infinite media. Biomedical Optics Express, 2020, 11, 6093.	2.9	10
6	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
7	Fully convolutional architecture vs sliding-window CNN for corneal endothelium cell segmentation. BMC Biomedical Engineering, 2019, 1, 4.	2.6	47
8	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
9	Convolutional neural network-based regression for biomarker estimation in corneal endothelium microscopy images. , 2019, 2019, 876-881.		7
10	Automatic detection of the region of interest in corneal endothelium images using dense convolutional neural networks. , 2019, , .		6
11	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
12	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
13	Estimating the arterial input function from dynamic contrast-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
14	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
15	Estimating the arterial input function from dynamic contrast-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
16	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
17	Comparison of image reconstruction techniques for optical projection tomography. Applied Optics, 2018, 57, 1874.	1.8	12
18	Comparison of Multi-Tensor Diffusion Models' Performance for White Matter Integrity Estimation in Chronic Stroke. Frontiers in Neuroscience, 2018, 12, 247.	2.8	11

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19	Corneal Endothelial Cell Segmentation by Classifier-Driven Merging of Oversegmented Images. IEEE Transactions on Medical Imaging, 2018, 37, 2278-2289.	8.9	33
20	A hybrid segmentation method for partitioning the liver based on 4D DCE-MR Images. , 2018, , .		3
21	Fluorescence imaging for whole slide scanning using LED-based color sequential illumination. , 2018, , .		3
22	Accurate estimation of the attenuation coefficient from axial point spread function corrected OCT scans of a single layer phantom. , 2018, , .		1
23	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
24	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
25	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
26	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
27	Detection of retinal changes from illumination normalized fundus images using convolutional neural networks. , 2017, , .		2
28	Simulation of scanner- and patient-specific low-dose CT imaging from existing CT images. Physica Medica, 2017, 36, 12-23.	0.7	8
29	Point spread function based image reconstruction in optical projection tomography. Physics in Medicine and Biology, 2017, 62, 7784-7797.	3.0	22
30	Longitudinal analysis of diffusion-weighted MRI with a ball-and-sticks model. , 2017, , .		0
31	CSF contamination-invariant statistics in conventional diffusion-weighted MRI of the fornix. Biomedical Physics and Engineering Express, 2017, 3, 065003.	1.2	2
32	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
33	Reliable Dual Tensor Model Estimation in Single and Crossing Fibers Based on Jeffreys Prior. PLoS ONE, 2016, 11, e0164336.	2.5	5
34	Locally-adaptive loosely-coupled level sets for retinal layer and fluid segmentation in subjects with central serous retinopathy. , 2016, , .		28
35	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
36	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

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37	Noise-adaptive attenuation coefficient estimation in spectral domain optical coherence tomography data. , 2016, , .		1
38	Improved registration of DCE-MR images of the liver using a prior segmentation of the region of interest. , 2016, , .		3
39	Image Registration Based on Autocorrelation of Local Structure. IEEE Transactions on Medical Imaging, 2016, 35, 63-75.	8.9	68
40	Estimation of diffusion properties in three-way fiber crossings without overfitting. Physics in Medicine and Biology, 2015, 60, 9123-9144.	3.0	8
41	Rank-2 model-order selection in diffusion tensor MRI: Infomation complexity based on the total Kullback-Leibler divergence. , 2015, , .		1
42	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
43	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
44	Shack-Hartmann sensor based optical quality testing of whole slide imaging systems for digital pathology. , 2015, , .		2
45	Estimating diffusion properties in complex fiber configurations based on structure-adaptive multi-valued tensor-field filtering. Proceedings of SPIE, 2015, , .	0.8	0
46	CSF contamination-invariant statistics in diffusion-weighted MRI. , 2015, , .		3
47	Method for segmentation of the layers in the outer retina. , 2015, 2015, 5646-9.		3
48	Feasibility of a fast method for B1-inhomogeneity correction for FSPGR sequences. Magnetic Resonance Imaging, 2015, 33, 312-318.	1.8	18
49	Image registration based on the structure tensor of the local phase. , 2015, , .		1
50	Epicardial fat volume is related to atherosclerotic calcification in multiple vessel beds. European Heart Journal Cardiovascular Imaging, 2015, 16, 1264-1269.	1.2	50
51	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
52	Optical quality assessment of whole slide imaging systems for digital pathology. Optics Express, 2015, 23, 1319.	3.4	14
53	Loosely coupled level sets for simultaneous 3D retinal layer segmentation in optical coherence tomography. Medical Image Analysis, 2015, 26, 146-158.	11.6	49
54	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

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55	Rehydration kinetics of freeze-dried carrots. <i>Innovative Food Science and Emerging Technologies</i> , 2014, 24, 40-47.	5.6	23
56	Differences in Nuclear DNA Organization Between Lymphocytes, Hodgkin and Reedâ€“Sternberg Cells Revealed by Structured Illumination Microscopy. <i>Journal of Cellular Biochemistry</i> , 2014, 115, 1441-1448.	2.6	22
57	Three-dimensional structured illumination microscopy using Lukosz bound apodization reduces pixel negativity at no resolution cost. <i>Optics Express</i> , 2014, 22, 11215.	3.4	7
58	Additional Diagnostic Value of Integrated Analysis of Cardiac CTA and SPECT MPI Using the SMARTVis System in Patients with Suspected Coronary Artery Disease. <i>Journal of Nuclear Medicine</i> , 2014, 55, 50-57.	5.0	18
59	Quantifying resolution limiting factors in subtomogram averaged cryo-electron tomography using simulations. <i>Journal of Structural Biology</i> , 2014, 187, 103-111.	2.8	19
60	When to use the projection assumption and the weak-phase object approximation in phase contrast cryo-EM. <i>Ultramicroscopy</i> , 2014, 136, 61-66.	1.9	42
61	A Hierarchical Coarse-to-Fine Approach for Fundus Image Registration. <i>Lecture Notes in Computer Science</i> , 2014, , 93-102.	1.3	18
62	Automatic segmentation, detection and quantification of coronary artery stenoses on CTA. <i>International Journal of Cardiovascular Imaging</i> , 2013, 29, 1847-1859.	1.5	69
63	Loosely coupled level sets for retinal layer segmentation in optical coherence tomography. , 2013, , .		9
64	Electronic Cleansing for 24-H Limited Bowel Preparation CT Colonography Using Principal Curvature Flow. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 3036-3045.	4.2	6
65	Vessel Specific Coronary Artery Calcium Scoring. <i>Academic Radiology</i> , 2013, 20, 1-9.	2.5	67
66	Image formation modeling in cryo-electron microscopy. <i>Journal of Structural Biology</i> , 2013, 183, 19-32.	2.8	90
67	The Effect of Structure and Imbibition Mode on the Rehydration Kinetics of Freeze-dried Carrots. <i>Special Publication - Royal Society of Chemistry</i> , 2013, , 112-121.	0.0	1
68	Standardized evaluation framework for evaluating coronary artery stenosis detection, stenosis quantification and lumen segmentation algorithms in computed tomography angiography. <i>Medical Image Analysis</i> , 2013, 17, 859-876.	11.6	163
69	Lumen segmentation and stenosis quantification of atherosclerotic carotid arteries in CTA utilizing a centerline intensity prior. <i>Medical Physics</i> , 2013, 40, 051721.	3.0	21
70	Phase retrieval in in-line x-ray phase contrast imaging based on total variation minimization. <i>Optics Express</i> , 2013, 21, 710.	3.4	25
71	Total variation minimization approach in in-line x-ray phase-contrast tomography. <i>Optics Express</i> , 2013, 21, 12185.	3.4	26
72	Image filtering in structured illumination microscopy using the Lukosz bound. <i>Optics Express</i> , 2013, 21, 24431.	3.4	25

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73	Automatic quantification of epicardial fat volume on non-enhanced cardiac CT scans using a multi-atlas segmentation approach. <i>Medical Physics</i> , 2013, 40, 091910.	3.0	49
74	Self Similarity Image Registration Based on Reorientation of the Hessian. <i>Lecture Notes in Computer Science</i> , 2013, , 20-28.	1.3	1
75	In-line x-ray phase-contrast tomography and diffraction-contrast tomography study of the ferrite-cementite microstructure in steel. , 2012, , .		1
76	Computational modeling for assessment of IBD: To be or not to be?. , 2012, 2012, 3974-7.		17
77	The impact of freeze-drying on microstructure and rehydration properties of carrot. <i>Food Research International</i> , 2012, 49, 687-693.	6.2	136
78	Lumen segmentation of atherosclerotic carotid arteries in CTA. , 2012, , .		0
79	Automatic detection of calcified lesions in the descending aorta using contrast enhanced CT scans. , 2012, , .		4
80	Fast, spatially varying CTF correction in TEM. <i>Ultramicroscopy</i> , 2012, 118, 26-34.	1.9	21
81	Semiautomatic carotid lumen segmentation for quantification of lumen geometry in multispectral MRI. <i>Medical Image Analysis</i> , 2012, 16, 1202-1215.	11.6	47
82	Three-dimensional morphology of cementite in steel studied by X-ray phase-contrast tomography. <i>Scripta Materialia</i> , 2012, 67, 261-264.	5.2	8
83	Precise and unbiased estimation of astigmatism and defocus in transmission electron microscopy. <i>Ultramicroscopy</i> , 2012, 116, 115-134.	1.9	22
84	A 4D Statistical Model of Wrist Bone Motion Patterns. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 613-625.	8.9	18
85	3D Non-rigid Motion Correction of Free-Breathing Abdominal DCE-MRI Data. <i>Lecture Notes in Computer Science</i> , 2012, , 44-50.	1.3	3
86	An Efficient and Robust Algorithm for Parallel Groupwise Registration of Bone Surfaces. <i>Lecture Notes in Computer Science</i> , 2012, 15, 164-171.	1.3	6
87	Groupwise Rigid Registration of Wrist Bones. <i>Lecture Notes in Computer Science</i> , 2012, 15, 155-162.	1.3	0
88	A fast algorithm for computing and correcting the CTF for tilted, thick specimens in TEM. <i>Ultramicroscopy</i> , 2011, 111, 1029-1036.	1.9	37
89	Nonrigid Point Set Matching of White Matter Tracts for Diffusion Tensor Image Analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 2431-2440.	4.2	10
90	Characterization of an x-ray phase contrast imaging system based on the miniature synchrotron MIRRORCLE-6X. <i>Medical Physics</i> , 2011, 38, 5136-5145.	3.0	6

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91	Multispectral MRI centerline tracking in carotid arteries. , 2011, , .		4
92	Localized Component Analysis for Arthritis Detection in the Trapeziometacarpal Joint. Lecture Notes in Computer Science, 2011, 14, 360-367.	1.3	6
93	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
94	Automated Detection and Segmentation of Large Lesions in CT Colonography. IEEE Transactions on Biomedical Engineering, 2010, 57, 675-684.	4.2	7
95	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
96	Computer-Aided Detection of Polyps in CT Colonography Using Logistic Regression. IEEE Transactions on Medical Imaging, 2010, 29, 120-131.	8.9	54
97	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
98	Estimation of Diffusion Properties in Crossing Fiber Bundles. IEEE Transactions on Medical Imaging, 2010, 29, 1504-1515.	8.9	43
99	Statistical descriptions of scaphoid and lunate bone shapes. Journal of Biomechanics, 2010, 43, 1463-1469.	2.1	44
100	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
101	Estimation of defocus and astigmatism in transmission electron microscopy. , 2010, , .		1
102	Multiframe Super-Resolution Reconstruction of Small Moving Objects. IEEE Transactions on Image Processing, 2010, 19, 2901-2912.	9.8	42
103	Gridifying a Diffusion Tensor Imaging Analysis Pipeline. , 2010, , .		2
104	A patient-specific coronary density estimate. , 2010, , .		9
105	Adaptive Noise Filtering for Accurate and Precise Diffusion Estimation in Fiber Crossings. Lecture Notes in Computer Science, 2010, 13, 167-174.	1.3	15
106	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
107	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
108	Combining mesh, volume, and streamline representations for polyp detection in CT colonography. , 2009, , .		5

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109	A statistical description of the articulating ulna surface for prosthesis design. , 2009, , .		12
110	Constrained Registration of the Wrist Joint. IEEE Transactions on Medical Imaging, 2009, 28, 1861-1869.	8.9	21
111	Quantitative Image Analysis for Evaluating the Coating Thickness and Pore Distribution in Coated Small Particles. Pharmaceutical Research, 2009, 26, 965-976.	3.5	35
112	The effect of rice kernel microstructure on cooking behaviour: A combined ^{13}C -CT and MRI study. Food Chemistry, 2009, 115, 1491-1499.	8.2	42
113	DNA Deformations near Charged Surfaces: Electron and Atomic Force Microscopy Views. Biophysical Journal, 2009, 97, 1148-1157.	0.5	31
114	Performance study on point target detection using super-resolution reconstruction. Proceedings of SPIE, 2009, , .	0.8	4
115	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
116	Recognition of Protruding Objects in Highly Structured Surroundings by Structural Inference. Lecture Notes in Computer Science, 2009, , 41-50.	1.3	0
117	Pore Direction in Relation to Anisotropy of Mechanical Strength in a Cubic Starch Compact. AAPS PharmSciTech, 2008, 9, 528-535.	3.3	8
118	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
119	Superresolution reconstruction for moving point target detection. Optical Engineering, 2008, 47, 096401.	1.0	7
120	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
121	Super-Resolution on small moving objects. , 2008, , .		1
122	Protrusion Method for Automated Estimation of Polyp Size on CT Colonography. American Journal of Roentgenology, 2008, 190, 1279-1285.	2.2	9
123	Thin layer tissue classification for electronic cleansing of CT colonography data. , 2008, , .		0
124	Robust super-resolution by minimizing a Gaussian-weighted L_2 error norm. Journal of Physics: Conference Series, 2008, 124, 012037.	0.4	7
125	Spatial Consistency in 3D Tract-Based Clustering Statistics. Lecture Notes in Computer Science, 2008, 11, 535-542.	1.3	3
126	High-resolution reservoir characterization by CO_2 model-driven seismic Bayesian inversion: An example from a Tertiary deltaic clinoform system in the North Sea. , 2008, , .		1

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127	LINEAR AND KERNEL FISHER DISCRIMINANT ANALYSIS FOR STUDYING DIFFUSION TENSOR IMAGES IN SCHIZOPHRENIA. , 2007, , .		2
128	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
129	PRUNING DATASETS IN DISCRIMINANT ANALYSIS: A DTI STUDY TO SCHIZOPHRENIA. , 2007, , .		0
130	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
131	CONSTRAINED REGISTRATION OF MULTIPLE RIGID OBJECTS IN CLOSE PROXIMITY: APPLICATION IN THE WRIST JOINT. , 2007, , .		1
132	Performance Evaluation of Super-Resolution Reconstruction Methods on Real-World Data. Eurasip Journal on Advances in Signal Processing, 2007, 2007, .	1.7	18
133	Improving the accuracy of isotropic granulometries. Pattern Recognition Letters, 2007, 28, 865-872.	4.2	20
134	Pore size distribution in tablets measured with a morphological sieve. International Journal of Pharmaceutics, 2007, 342, 176-183.	5.2	8
135	Finding the Minimum-Cost Path Without Cutting Corners. Lecture Notes in Computer Science, 2007, , 263-272.	1.3	6
136	A Crossing Detector Based on the Structure Tensor. Lecture Notes in Computer Science, 2007, , 212-220.	1.3	2
137	3-D IMAGING, ANALYSIS AND MODELLING OF POROUS CEREAL PRODUCTS USING X-RAY MICROTOMOGRAPHY. Image Analysis and Stereology, 2007, 26, 169.	0.9	47
138	Generating Fiber Crossing Phantoms Out of Experimental DWIs. Lecture Notes in Computer Science, 2007, 10, 169-176.	1.3	0
139	Junction Detection and Multi-orientation Analysis Using Streamlines. Lecture Notes in Computer Science, 2007, , 718-725.	1.3	2
140	High-resolution clinof orm characterization by 2D model-driven seismic Bayesian inversion. , 2007, , .		2
141	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
142	Resolution enhancement of low-quality videos using a high-resolution frame. , 2006, 6077, 88.		10
143	Shaving diffusion tensor images in discriminant analysis: A study into schizophrenia. Medical Image Analysis, 2006, 10, 841-849.	11.6	55
144	Supporting knowledge-intensive inspection tasks with application ontologies. International Journal of Human Computer Studies, 2006, 64, 974-983.	5.6	15

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145	The determination of relative path length as a measure for tortuosity in compacts using image analysis. <i>European Journal of Pharmaceutical Sciences</i> , 2006, 28, 433-440.	4.0	53
146	Multi-orientation analysis by decomposing the structure tensor and clustering. , 2006, , .		5
147	Super-Resolution on Moving Objects and Background. , 2006, , .		15
148	Robust Fusion of Irregularly Sampled Data Using Adaptive Normalized Convolution. <i>Eurasip Journal on Advances in Signal Processing</i> , 2006, 2006, 1.	1.7	136
149	Detection of Protrusions in Curved Folded Surfaces Applied to Automated Polyp Detection in CT Colonography. <i>Lecture Notes in Computer Science</i> , 2006, 9, 471-478.	1.3	12
150	Influence of signal-to-noise ratio and point spread function on limits of superresolution. , 2005, , .		15
151	The generalized Radon transform: Sampling, accuracy and memory considerations. <i>Pattern Recognition</i> , 2005, 38, 2494-2505.	8.1	34
152	Location-Dependent Analysis of Porosity and Pore Direction in Tablets. <i>Pharmaceutical Research</i> , 2005, 22, 1399-1405.	3.5	11
153	Performance of optimal registration estimators. , 2005, 5817, 133.		37
154	Correction for the dislocation of curved surfaces caused by the PSF in 2D and 3D CT images. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2005, 27, 1501-1507.	13.9	17
155	Using line segments as structuring elements for sampling-invariant measurements. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2005, 27, 1826-1831.	13.9	10
156	Regularized phase tracker with isophase scanning strategy for analysis of dynamic interferograms of nonwetting droplets under excitation. <i>Applied Optics</i> , 2005, 44, 2695.	2.1	4
157	Segmentation and Size Measurement of Polyps in CT Colonography. <i>Lecture Notes in Computer Science</i> , 2005, 8, 712-719.	1.3	17
158	A statistical shape model without using landmarks. , 2004, , .		11
159	Robust local max-min filters by normalized power-weighted filtering. , 2004, , .		11
160	Alignment of the cell nucleus from labeled proteins only for 4D in vivo imaging. <i>Microscopy Research and Technique</i> , 2004, 64, 142-150.	2.2	29
161	Diffusion of microspheres in sealed and open microarrays. <i>Microscopy Research and Technique</i> , 2004, 65, 218-225.	2.2	8
162	A systematic approach to nD orientation representation. <i>Image and Vision Computing</i> , 2004, 22, 453-459.	4.5	20

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163	Nanoarrays: A Method for Performing Enzymatic Assays. <i>Analytical Chemistry</i> , 2004, 76, 4112-4117.	6.5	29
164	On curvature estimation of ISO surfaces in 3D gray-value images and the computation of shape descriptors. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2004, 26, 1088-1094.	13.9	40
165	Toward the development of a three-dimensional mid-field microscope. , 2004, 5327, 115.		5
166	On Normalized Convolution to Measure Curvature Features for Automatic Polyp Detection. <i>Lecture Notes in Computer Science</i> , 2004, , 200-208.	1.3	10
167	Miniaturized analytical assays in biotechnology. <i>Biotechnology Advances</i> , 2003, 21, 431-444.	11.7	5
168	Grain size stabilisation by dispersed graphite in a high-grade quartz mylonite: an example from Naxos (Greece). <i>Journal of Structural Geology</i> , 2003, 25, 855-866.	2.3	76
169	Monitoring enzymatic reactions in nanolitre wells. <i>Journal of Microscopy</i> , 2003, 212, 254-263.	1.8	23
170	Nonlinear image processing using artificial neural networks. <i>Advances in Imaging and Electron Physics</i> , 2003, 126, 351-450.	0.2	15
171	Ring formation in nanoliter cups: Quantitative measurements of flow in micromachined wells. <i>Physical Review E</i> , 2003, 68, 036312.	2.1	39
172	A New Sharpness Measure Based on Gaussian Lines and Edges. <i>Lecture Notes in Computer Science</i> , 2003, , 149-156.	1.3	24
173	Discrete Morphology with Line Structuring Elements. <i>Lecture Notes in Computer Science</i> , 2003, , 722-729.	1.3	10
174	Monitoring enzymatic reactions with in situ sensors. , 2003, , .		0
175	Computed Cleansing for Virtual Colonoscopy Using a Three-Material Transition Model. <i>Lecture Notes in Computer Science</i> , 2003, , 175-183.	1.3	21
176	Quantitative Assessment of Gas Cell Development During the Proofing of Dough by Magnetic Resonance Imaging and Image Analysis. <i>Cereal Chemistry</i> , 2003, 80, 390-395.	2.2	38
177	Representing Orientation in n-Dimensional Spaces. <i>Lecture Notes in Computer Science</i> , 2003, , 17-24.	1.3	8
178	Basic Morphological Operations, Band-Limited Images and Sampling. <i>Lecture Notes in Computer Science</i> , 2003, , 313-324.	1.3	4
179	Robust Curve Detection Using a Radon Transform in Orientation Space. <i>Lecture Notes in Computer Science</i> , 2003, , 125-132.	1.3	12
180	Estimation of Curvature Based Shape Properties of Surfaces in 3D Grey-Value Images. <i>Lecture Notes in Computer Science</i> , 2003, , 262-267.	1.3	3

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181	3D-Orientation Space; Filters and Sampling. Lecture Notes in Computer Science, 2003, , 36-42.	1.3	13
182	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
183	Curvature of n-dimensional space curves in grey-value images. IEEE Transactions on Image Processing, 2002, 11, 738-745.	9.8	30
184	<title>Monitoring enzyme-catalyzed reactions in micromachined nanoliter wells using a conventional microscope-based microarray reader</title>. , 2002, , .		4
185	Recursive Gabor filtering. IEEE Transactions on Signal Processing, 2002, 50, 2798-2805.	5.3	71
186	Temporal phase-unwrapping algorithm for dynamic interference pattern analysis in interference-contrast microscopy. Applied Optics, 2001, 40, 4487.	2.1	24
187	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
188	<title>Measuring liquid volumes in subnanoliter wells</title>. , 2001, , .		2
189	Mean and variance of ratio estimators used in fluorescence ratio imaging. Cytometry, 2000, 39, 300-305.	1.8	102
190	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
191	Improving resolution to reduce aliasing in an undersampled image sequence. , 2000, , .		8
192	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
193	Mean and variance of ratio estimators used in fluorescence ratio imaging. , 2000, 39, 300.		3
194	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
195	<title>Fluorescence detection in (sub-)nanoliter microarrays</title>. , 1999, 3606, 28.		12
196	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
197	The Applicability of Neural Networks to Non-linear Image Processing. Pattern Analysis and Applications, 1999, 2, 111-128.	4.6	19
198	<title>Influence of background estimation on the superresolution properties of nonlinear image restoration algorithms</title>. , 1999, , .		6

#	ARTICLE	IF	CITATIONS
199	Quantitative evaluation of light microscopes based on image processing techniques. <i>Bioimaging</i> , 1998, 6, 138-149.	1.3	18
200	Theory of confocal fluorescence imaging in the programmable array microscope (PAM). <i>Journal of Microscopy</i> , 1998, 189, 192-198.	1.8	88
201	<title>Quantitative interferometric imaging using a conventional differential interference contrast microscope</title>. , 1997, 2982, 458.		5
202	<title>Application of image restoration methods for confocal fluorescence microscopy</title>. , 1997, , .		8
203	Design of a Wide Field High Sensitivity Imaging System for Quantitative Analysis of CGHA Micro-Arrays.. <i>Microscopy and Microanalysis</i> , 1997, 3, 811-812.	0.4	0
204	Calibration of the automated z axis of a microscope using focus functions. <i>Journal of Microscopy</i> , 1997, 186, 270-274.	1.8	26
205	Reconstruction of optical pathlength distributions from images obtained by a wide-field differential interference contrast microscope. <i>Journal of Microscopy</i> , 1997, 188, 149-157.	1.8	73
206	A quantitative comparison of image restoration methods for confocal microscopy. <i>Journal of Microscopy</i> , 1997, 185, 354-365.	1.8	153
207	FISH and chips: Automation of fluorescent dot counting in interphase cell nuclei. <i>Cytometry</i> , 1997, 28, 1-10.	1.8	116
208	FISH and chips: Automation of fluorescent dot counting in interphase cell nuclei. <i>Cytometry</i> , 1997, 28, 1-10.	1.8	2
209	Fluorescent dot counting in interphase cell nuclei. <i>Bioimaging</i> , 1996, 4, 93-106.	1.3	18
210	Hardware and software requirements for quantitative analysis of comparative genomic hybridization. <i>Cytometry</i> , 1995, 19, 4-9.	1.8	86
211	Recursive implementation of the Gaussian filter. <i>Signal Processing</i> , 1995, 44, 139-151.	3.7	283
212	Autofocusing in microscopy based on the OTF and sampling. <i>Bioimaging</i> , 1994, 2, 193-203.	1.3	20
213	A fast scanner for fluorescence microscopy using a 2-D CCD and time delayed integration. <i>Bioimaging</i> , 1994, 2, 184-192.	1.3	5
214	<title>Methods for CCD camera characterization</title>. , 1994, 2173, 73.		74
215	Edge localization by MoG filters: Multiple-of-Gaussians. <i>Pattern Recognition Letters</i> , 1994, 15, 485-496.	4.2	7
216	On the location error of curved edges in low-pass filtered 2-D and 3-D images. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1994, 16, 726-733.	13.9	48

#	ARTICLE	IF	CITATIONS
217	A fast scanner for fluorescence microscopy using a 2D CCD and time delayed integration. Bioimaging, 1994, 2, 184-192.	1.3	10
218	BINARY AND GREY-VALUE SKELETONS: METRICS AND ALGORITHMS. Series in Machine Perception and Artificial Intelligence, 1994, , 323-344.	0.1	0
219	BINARY AND GREY-VALUE SKELETONS: METRICS AND ALGORITHMS. International Journal of Pattern Recognition and Artificial Intelligence, 1993, 07, 1287-1308.	1.2	13
220	Estimators of 2D edge length and position, 3D surface area and position in sampled grey-valued images. , 1993, 1, 47.		1
221	Estimators of 2D edge length and position, 3D surface area and position in sampled grey-valued images. Bioimaging, 1993, 1, 47-61.	1.3	15
222	The athena semi-automated karyotyping system. Cytometry, 1990, 11, 51-58.	1.8	26
223	Experience with the athena semi-automated karyotyping system. Cytometry, 1990, 11, 59-72.	1.8	7
224	A nonlinear laplace operator as edge detector in noisy images. Computer Vision, Graphics, and Image Processing, 1989, 45, 167-195.	1.0	137
225	Athena: A Macintosh-Based Interactive Karyotyping System. , 1989, , 47-66.		4
226	A contour processing method for fast binary neighbourhood operations. Pattern Recognition Letters, 1988, 7, 27-36.	4.2	66
227	Low-level image processing by max-min filters. Signal Processing, 1988, 15, 249-258.	3.7	71
228	An Edge Detection Model Based on Non-Linear Laplace Filtering. Machine Intelligence and Pattern Recognition, 1988, , 63-73.	0.2	8
229	Line and edge detection by symmetry filters. , 0, , .		1
230	An estimator of edge length and surface area in digitized 2D and 3D images. , 0, , .		2
231	Automation of fluorescent dot counting in cell nuclei. , 0, , .		6
232	Better geometric measurements based on photometric information. , 0, , .		7
233	Recursive Gaussian derivative filters. , 0, , .		93
234	Improved curvature and anisotropy estimation for curved line bundles. , 0, , .		6

#	ARTICLE	IF	CITATIONS
235	Edge preserving orientation adaptive filtering. , 0, , .		57
236	Nanometer-scale height measurements in micromachined picoliter vials based on interference fringe analysis. , 0, , .		2
237	Recursive Gabor filtering. , 0, , .		3
238	Confidence and curvature estimation of curvilinear structures in 3-D. , 0, , .		10
239	Curvature estimation of surfaces in 3D grey-value images. , 0, , .		2
240	Quantitative imaging: how to measure size features in digitized images. , 0, , .		0
241	Separable Bilateral Filtering for Fast Video Preprocessing. , 0, , .		147
242	Expert-Based Ontology Construction: A Case-Study in Horticulture. , 0, , .		8