Dirk Vandermeulen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

140
papers4,254
citations32
h-index63
g-index156
ext. papers4,977
ext. citations4.4
avg, IF5
L-index

#	Paper	IF	Citations
140	Bloodstain impact pattern Area of Origin estimation using least-squares angles: A HemoVision validation study <i>Forensic Science International</i> , 2022 , 333, 111211	2.6	
139	Three-dimensional image volumes from two-dimensional digitally reconstructed radiographs: A deep learning approach in lower limb CT scans. <i>Medical Physics</i> , 2021 , 48, 2448-2457	4.4	2
138	Automated landmarking for palatal shape analysis using geometric deep learning. <i>Orthodontics and Craniofacial Research</i> , 2021 ,	3	1
137	Theoretical analysis and experimental validation of volume bias of soft Dice optimized segmentation maps in the context of inherent uncertainty. <i>Medical Image Analysis</i> , 2021 , 67, 101833	15.4	7
136	Towards fully automated third molar development staging in panoramic radiographs. <i>International Journal of Legal Medicine</i> , 2020 , 134, 1831-1841	3.1	17
135	Detection of Vertebral Fractures in CT Using 3D Convolutional Neural Networks. <i>Lecture Notes in Computer Science</i> , 2020 , 3-14	0.9	8
134	Effect of Lower Third Molar Segmentations on Automated Tooth Development Staging using a Convolutional Neural Network. <i>Journal of Forensic Sciences</i> , 2020 , 65, 481-486	1.8	16
133	Facial recognition from DNA using face-to-DNA classifiers. <i>Nature Communications</i> , 2019 , 10, 2557	17.4	19
132	Cascaded statistical shape model based segmentation of the full lower limb in CT. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019 , 22, 644-657	2.1	33
131	Genome-wide mapping of global-to-local genetic effects on human facial shape. <i>Nature Genetics</i> , 2018 , 50, 414-423	36.3	105
130	Human Centric Recognition of 3D Ear Models. <i>International Journal of Computational Intelligence Systems</i> , 2016 , 9, 296	3.4	1
129	Automatic Detection of Myocardial Infarction Through a Global Shape Feature Based on Local Statistical Modeling. <i>Lecture Notes in Computer Science</i> , 2016 , 208-216	0.9	1
128	HemoVision: An automated and virtual approach to bloodstain pattern analysis. <i>Forensic Science International</i> , 2015 , 251, 116-23	2.6	13
127	3-dimensional analysis of regenerative endodontic treatment outcome. <i>Journal of Endodontics</i> , 2015 , 41, 317-24	4.7	45
126	An investigation of matching symmetry in the human pinnae with possible implications for 3D ear recognition and sound localization. <i>Journal of Anatomy</i> , 2015 , 226, 60-72	2.9	15
125	Image registration using mutual information 2015 , 295-308		7
124	Calculation of bloodstain impact angles using an Active Bloodstain Shape Model. <i>Journal of Forensic Radiology and Imaging</i> , 2014 , 2, 188-198	1.3	6

LSP based comparison of 3D ear models 2014, 7 123 Modeling 3D facial shape from DNA. PLoS Genetics, 2014, 10, e1004224 6 122 142 A spatially-dense regression study of facial form and tissue depth: towards an interactive tool for 121 2.6 35 craniofacial reconstruction. Forensic Science International, 2014, 234, 103-10 Unsupervised segmentation, clustering, and groupwise registration of heterogeneous populations 120 11.7 30 of brain MR images. IEEE Transactions on Medical Imaging, 2014, 33, 201-24 Bipolar Comparison of 3D Ear Models. Communications in Computer and Information Science, 2014, 160-169, 119 1 meshSIFT: Local surface features for 3D face recognition under expression variations and partial 118 4.3 97 data. Computer Vision and Image Understanding, 2013, 117, 158-169 Feasibility and validation of virtual autopsy for dental identification using the Interpol dental 117 1.7 40 codes. Journal of Clinical Forensic and Legal Medicine, 2013, 20, 248-54 A comparison of methods for non-rigid 3D shape retrieval. Pattern Recognition, 2013, 46, 449-461 116 7.7 117 Isometric deformation invariant 3D shape recognition. Pattern Recognition, 2012, 45, 2817-2831 115 7.7 31 Dysmorphometrics: the modelling of morphological abnormalities. Theoretical Biology and Medical 28 2.3 114 Modelling, 2012, 9, 5 Feature-based piecewise rigid registration in 2-D medical images 2012, 113 3 Sexual dimorphism in multiple aspects of 3D facial symmetry and asymmetry defined by spatially 112 2.9 55 dense geometric morphometrics. Journal of Anatomy, 2012, 221, 97-114 A Comparative Study of 3-D Face Recognition Under Expression Variations. *IEEE Transactions on* 111 40 Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 710-727 Integrating Statistical Shape Models into a Graph Cut Framework for Tooth Segmentation. Lecture 110 0.9 6 Notes in Computer Science, 2012, 242-249 Symmetric surface-feature based 3D face recognition for partial data 2011, 8 109 Robust point set registration using EM-ICP with information-theoretically optimal outlier handling 108 18 2011. Spatially-dense 3D facial asymmetry assessment in both typical and disordered growth. Journal of 107 2.9 62 Anatomy, 2011, 219, 444-55 A quantitative comparison of 3D face databases for 3D face recognition 2011, 106

105	Automated Cephalometric Landmark Localization Using Sparse Shape and Appearance Models. <i>Lecture Notes in Computer Science</i> , 2011 , 249-256	0.9	4
104	Nosologic Imaging of Brain Tumors Using MRI and MRSI 2011 , 155-168		
103	Semisupervised Probabilistic Clustering of Brain MR Images Including Prior Clinical Information. Lecture Notes in Computer Science, 2011 , 184-194	0.9	1
102	SPARC: Unified framework for automatic segmentation, probabilistic atlas construction, registration and clustering of brain MR images 2010 ,		4
101	Automated Cephalometric Landmark Identification Using Shape and Local Appearance Models 2010 ,		2
100	Fusion of an Isometric Deformation Modeling Approach Using Spectral Decomposition and a Region-Based Approach Using ICP for Expression-Invariant 3D Face Recognition 2010 ,		6
99	Feature detection on 3D face surfaces for pose normalisation and recognition 2010,		58
98	2010,		1
97	Segmentation of liver portal veins by global optimization 2010,		6
96	Bayesian estimation of optimal craniofacial reconstructions. <i>Forensic Science International</i> , 2010 , 201, 146-52	2.6	29
95	Nonrigid image registration using conditional mutual information. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 19-29	11.7	156
94	Semi-automatic level set segmentation of liver tumors combining a spiral-scanning technique with supervised fuzzy pixel classification. <i>Medical Image Analysis</i> , 2010 , 14, 13-20	15.4	79
93	Targeting specific facial variation for different identification tasks. <i>Forensic Science International</i> , 2010 , 201, 118-24	2.6	14
92	Objective 3D face recognition: Evolution, approaches and challenges. <i>Forensic Science International</i> , 2010 , 201, 125-32	2.6	66
91	Computerized craniofacial reconstruction: Conceptual framework and review. <i>Forensic Science International</i> , 2010 , 201, 138-45	2.6	90
90	Inelastic Deformation Invariant Modal Representation for Non-rigid 3D Object Recognition. <i>Lecture Notes in Computer Science</i> , 2010 , 162-171	0.9	5
89	Segmentation of lung vessel trees by global optimization 2009,		4
88	Nosologic imaging of the brain: segmentation and classification using MRI and MRSI. <i>NMR in Biomedicine</i> , 2009 , 22, 374-90	4.4	41

(2006-2009)

87	Isometric deformation modeling using singular value decomposition for 3D expression-invariant face recognition 2009 ,		11
86	Image Segmentation Using Graph Representations and Local Appearance and Shape Models. Lecture Notes in Computer Science, 2009 , 353-365	0.9	1
85	Isometric Deformation Modelling for Object Recognition. Lecture Notes in Computer Science, 2009, 757	-7665	20
84	An Elasticity Penalty: Mixing FEM and Nonrigid Registration. IFMBE Proceedings, 2009, 709-712	0.2	1
83	3D Face Recognition using Point Cloud Kernel Correlation 2008,		5
82	A statistical framework for the registration of 3D knee implant components to single-plane X-ray images 2008 ,		2
81	Model-based segmentation using graph representations. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 393-400	0.9	6
80	Minimal shape and intensity cost path segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2007 , 26, 1115-29	11.7	71
79	Nonrigid registration for subtraction CT angiography applied to the carotids and cranial arteries. <i>Academic Radiology</i> , 2007 , 14, 1562-76	4.3	15
78	A Statistical Approach to Determine Symmetrical Solutions for the Registration of 3D Knee Implant Models to Sagittal Fluoroscopy Images 2007 ,		1
77	Robust initialization for 2D/3D registration of knee implant models to single-plane fluoroscopy 2007 , 6512, 86		3
76	A robust optimization strategy for intensity-based 2D/3D registration of knee implant models to single-plane fluoroscopy 2007 ,		2
75	Linear normalization of MR brain images in pediatric patients with periventricular leukomalacia. <i>NeuroImage</i> , 2007 , 35, 686-97	7.9	14
74	Atlas-to-image non-rigid registration by minimization of conditional local entropy. <i>Information Processing in Medical Imaging</i> , 2007 , 20, 320-32		8
73	Nonrigid image registration using conditional mutual information. <i>Information Processing in Medical Imaging</i> , 2007 , 20, 725-37		13
72	A New Cone-beam Computed Tomography System for Dental Applications with Innovative 3D Software. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2006 , 1, 389-402	3.9	4
71	Third molar evaluation with cone-beam computerized tomography. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2006 , 1, 113-116	3.9	1
70	Non-rigid brain image registration using a statistical deformation model 2006,		5

Non-rigid image registration using mutual information **2006**, 91-103

68	Large-scale validation of non-rigid registration algorithms for atlas-based brain image segmentation 2006 ,		1
67	Craniofacial reconstruction using a combined statistical model of face shape and soft tissue depths: methodology and validation. <i>Forensic Science International</i> , 2006 , 159 Suppl 1, S147-58	2.6	95
66	Computerized craniofacial reconstruction using CT-derived implicit surface representations. <i>Forensic Science International</i> , 2006 , 159 Suppl 1, S164-74	2.6	55
65	An information theoretic approach for non-rigid image registration using voxel class probabilities. <i>Medical Image Analysis</i> , 2006 , 10, 413-31	15.4	24
64	Statistically Deformable Face Models for Cranio-Facial Reconstruction. <i>Journal of Computing and Information Technology</i> , 2006 , 14, 21	0.4	29
63	A Unified Framework for Atlas Based Brain Image Segmentation and Registration. <i>Lecture Notes in Computer Science</i> , 2006 , 136-143	0.9	10
62	Comparison Between Parzen Window Interpolation and Generalised Partial Volume Estimation for Nonrigid Image Registration Using Mutual Information. <i>Lecture Notes in Computer Science</i> , 2006 , 206-21	<i>\$</i> .9	6
61	Model-Based Brain Tissue Classification 2005 , 1-55		
60	Automatic analysis of cerebral asymmetry: an exploratory study of the relationship between brain torque and planum temporale asymmetry. <i>Neurolmage</i> , 2005 , 24, 678-91	7.9	90
59	Feature-based statistical analysis of structural MR data for automatic detection of focal cortical dysplastic lesions. <i>NeuroImage</i> , 2005 , 27, 253-66	7.9	18
58	Construction and validation of mean shape atlas templates for atlas-based brain image segmentation. <i>Lecture Notes in Computer Science</i> , 2005 , 19, 689-700	0.9	32
57	Removal of Plaque and Stent Artifacts in Subtraction CT Angiography Using Nonrigid Registration and a Volume Penalty. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 4294-7		2
56	Semi-automated Ultrasound Facial Soft Tissue Depth Registration: Method and Validation. <i>Journal of Forensic Sciences</i> , 2005 , 50, 1-7	1.8	47
55	Plaque and stent artifact reduction in subtraction CT angiography using nonrigid registration and a volume penalty. <i>Lecture Notes in Computer Science</i> , 2005 , 8, 361-8	0.9	4
54	Non-rigid Atlas-to-Image Registration by Minimization of Class-Conditional Image Entropy. <i>Lecture Notes in Computer Science</i> , 2004 , 745-753	0.9	14
53	Construction of a Brain Template from MR Images Using State-of-the-Art Registration and Segmentation Techniques. <i>Lecture Notes in Computer Science</i> , 2004 , 696-703	0.9	23
52	Effects of Anatomical Asymmetry in Spatial Priors on Model-Based Segmentation of the Brain MRI: A Validation Study. <i>Lecture Notes in Computer Science</i> , 2004 , 327-334	0.9	2

51	Nonrigid Image Registration Using Free-Form Deformations with a Local Rigidity Constraint. Lecture Notes in Computer Science, 2004 , 639-646	0.9	26
50	Temporal Subtraction of Thorax CR Images. <i>Lecture Notes in Computer Science</i> , 2003 , 738-745	0.9	2
49	Accuracy of diffusion-weighted MR imaging in the diagnosis of sporadic Creutzfeldt-Jakob disease. <i>Journal of Neurology</i> , 2003 , 250, 222-5	5.5	37
48	Application of a new image analysis technique to study brain asymmetry in schizophrenia. <i>Psychiatry Research - Neuroimaging</i> , 2003 , 124, 25-35	2.9	30
47	A viscous fluid model for multimodal non-rigid image registration using mutual information. <i>Medical Image Analysis</i> , 2003 , 7, 565-75	15.4	152
46	A unifying framework for partial volume segmentation of brain MR images. <i>IEEE Transactions on Medical Imaging</i> , 2003 , 22, 105-19	11.7	190
45	Temporal subtraction of thorax CR images using a statistical deformation model. <i>IEEE Transactions on Medical Imaging</i> , 2003 , 22, 1490-504	11.7	27
44	Medical image registration using mutual information. <i>Proceedings of the IEEE</i> , 2003 , 91, 1699-1722	14.3	218
43	Non-rigid image registration using a statistical spline deformation model. <i>Lecture Notes in Computer Science</i> , 2003 , 18, 463-74	0.9	12
42	Evaluation of image features and search strategies for segmentation of bone structures in radiographs using Active Shape Models. <i>Medical Image Analysis</i> , 2002 , 6, 47-62	15.4	61
41	Retrospective correction of the heel effect in hand radiographs. <i>Medical Image Analysis</i> , 2002 , 6, 183-90	15.4	9
40	Validation of Nonlinear Spatial Filtering to Improve Tissue Segmentation of MR Brain Images. <i>Lecture Notes in Computer Science</i> , 2001 , 507-515	0.9	
39	Quantitative MR Imaging. <i>Medical Radiology</i> , 2001 , 47-64	0.2	
38	A Statistical Framework for Partial Volume Segmentation. Lecture Notes in Computer Science, 2001, 204	-213	5
37	Retrospective Correction of the Heel Effect in Hand Radiographs. <i>Lecture Notes in Computer Science</i> , 2001 , 301-308	0.9	2
36	Comparative evaluation of multiresolution optimization strategies for multimodality image registration by maximization of mutual information. <i>Medical Image Analysis</i> , 1999 , 3, 373-86	15.4	285
35	Automated Segmentation of MS Lesions from Multi-channel MR Images. <i>Lecture Notes in Computer Science</i> , 1999 , 11-21	0.9	11
34	Quantification of Cerebral Grey and White Matter Asymmetry from MRI. <i>Lecture Notes in Computer Science</i> , 1999 , 348-357	0.9	15

33	Non-rigid multimodal image registration using mutual information. <i>Lecture Notes in Computer Science</i> , 1998 , 1099-1106	0.9	46
32	Automatic 3D segmentation of internal structures of the head in MR images using a combination of similarity and free-form transformations 1998 ,		7
31	Automatic segmentation of brain tissues and MR bias field correction using a digital brain atlas. <i>Lecture Notes in Computer Science</i> , 1998 , 1222-1229	0.9	8
30	Comparison and evaluation of retrospective intermodality brain image registration techniques. <i>Journal of Computer Assisted Tomography</i> , 1997 , 21, 554-66	2.2	608
29	Comparison and evaluation of retrospective intermodality image registration techniques 1996,		28
28	The use of magnetic resonance angiography in stereotactic neurosurgery. <i>Journal of Neurosurgery</i> , 1995 , 82, 982-7	3.2	9
27	Protocol for the clinical functionality assessment of a workstation for stereotactic neurosurgery. <i>IEEE Transactions on Medical Imaging</i> , 1995 , 14, 577-86	11.7	1
26	3D Multi-Modality Medical Image Registration Using Feature Space Clustering. <i>Lecture Notes in Computer Science</i> , 1995 , 195-204	0.9	52
25	Computer-Aided Interactive Object Delineation Using an Intelligent Paintbrush Technique. <i>Lecture Notes in Computer Science</i> , 1995 , 77-83	0.9	5
24	On the problem of geometric distortion in magnetic resonance images for stereotactic neurosurgery. <i>Magnetic Resonance Imaging</i> , 1994 , 12, 749-65	3.3	69
23	Registration of 3D multi-modality medical images using surfaces and point landmarks. <i>Pattern Recognition Letters</i> , 1994 , 15, 461-467	4.7	15
22	Continuous voxel classification by stochastic relaxation: theory and application to MR imaging and MR angiography. <i>Image and Vision Computing</i> , 1994 , 12, 559-572	3.7	6
21	Automatic registration of 3D images of the brain based on fuzzy objects 1994 , 2167, 162		2
20	How does the stereotactic workstation help the neurosurgeon?. <i>Stereotactic and Functional Neurosurgery</i> , 1994 , 63, 17-22	1.6	2
19	Image segmentation: methods and applications in diagnostic radiology and nuclear medicine. <i>European Journal of Radiology</i> , 1993 , 17, 14-21	4.7	30
18	New high-performance 3D registration algorithms for 3D medical images 1993 ,		3
17	Surface-based registration of 3D medical images 1993 ,		7
16	Stochastical segmentation method for vascular images and its convergence and parallelization 1993 , 2035, 108		

LIST OF PUBLICATIONS

15	Convergence measure and some parallel aspects of Markov-chain Monte Carlo algorithms 1993 , 2032, 23		2	
14	Computer assisted stereotactic neurosurgery. <i>Image and Vision Computing</i> , 1993 , 11, 468-485	3.7	6	
13	An Object Oriented Tool for 3D Multimodality Surface-based Image Registration 1993 , 568-573		1	
12	Integrated visualization of brain anatomy and cerebral blood vessels 1992,		1	
11	Knowledge-based 3-D segmentation of bloodvessels on a spatial sequence of MRI and Ultrasound images 1989 ,		3	
10	A Knowledge-Based System For The 3D Reconstruction And Representation Of The Cerebral Blood Vessels From A Pair Of Stereoscopic Angiograms 1989 ,		4	
9	An algorithm for surface reconstruction from planar contours using smoothing splines. <i>Journal of Computational and Applied Mathematics</i> , 1988 , 23, 367-388	2.4	5	
8	A 3-D Display System With Stereoscopic, Movement Parallax And Real-Time Rotation Capabilities 1988 , 0914, 855		1	
7	The Suetens-Gybels-Vandermeulen (SGV) Angiographic Localizer For Stereotactic Neurosurgery 1988, 0914, 760			
6	Angiographic localizer for the BRW stereotactic system. <i>Stereotactic and Functional Neurosurgery</i> , 1987 , 50, 87-91	1.6	2	
5	A New Software Package For The Microcomputer Based BRW Stereotactic System: Integrated Stereoscopic Views Of CT Data And Angiograms 1986 ,		9	
4	Automated facial reconstruction203-221		4	
3	Modeling shapes and textures from images: new frontiers		4	
2	Computer-aided interactive object delineation using an intelligent paintbrush technique77-83		1	
1	3D multi-modality medical image registration using feature space clustering193-204		13	