Dorin Comaniciu

List of Publications by Year
in descending order

225 papers	16,685 citations	66234 42 h-index	16605 123 g-index
239 all docs	239 docs citations	239 times ranked	13682 citing authors

#	Article	IF	Citations
1	Artificial Intelligence with Statistical Confidence Scores for Detection of Acute or Subacute Hemorrhage on Noncontrast CT Head Scans. Radiology: Artificial Intelligence, 2022, 4, .	3.0	9
2	Value of quantitative airspace disease measured on chest CT and chest radiography at initial diagnosis compared to clinical variables for prediction of severe COVID-19. Journal of Medical Imaging, 2022, 9, .	0.8	1
3	Quantifying and leveraging predictive uncertainty for medical image assessment. Medical Image Analysis, 2021, 68, 101855.	7.0	28
4	3D Printing, Computational Modeling, and Artificial Intelligence for Structural Heart Disease. JACC: Cardiovascular Imaging, 2021, 14, 41-60.	2.3	63
5	Prediction of Patient Management in COVID-19 Using Deep Learning-Based Fully Automated Extraction of Cardiothoracic CT Metrics and Laboratory Findings. Korean Journal of Radiology, 2021, 22, 994.	1.5	14
6	Automated detection of critical findings in multi-parametric brain MRI using a system of 3D neural networks. Scientific Reports, 2021, 11, 6876.	1.6	12
7	Machine learning automatically detects COVID-19 using chest CTs in a large multicenter cohort. European Radiology, 2021, 31, 8775-8785.	2.3	20
8	Robust classification from noisy labels: Integrating additional knowledge for chest radiography abnormality assessment. Medical Image Analysis, 2021, 72, 102087.	7.0	18
9	Learning cardiac anatomy. , 2020, , 97-116.		1
10	Autonomous Detection and Classification of PI-RADS Lesions in an MRI Screening Population Incorporating Multicenter-Labeled Deep Learning and Biparametric Imaging: Proof of Concept. Diagnostics, 2020, 10, 951.	1.3	33
11	Automated Quantification of CT Patterns Associated with COVID-19 from Chest CT. Radiology: Artificial Intelligence, 2020, 2, e200048.	3.0	108
12	Validation of a fully automated liver segmentation algorithm using multi-scale deep reinforcement learning and comparison versus manual segmentation. European Journal of Radiology, 2020, 126, 108918.	1.2	31
13	Artificial Intelligence in Diagnostic Imaging. Journal of Thoracic Imaging, 2020, 35, S11-S16.	0.8	35
14	Combo loss: Handling input and output imbalance in multi-organ segmentation. Computerized Medical Imaging and Graphics, 2019, 75, 24-33.	3.5	212
15	Artificial Intelligence in Cardiovascular Imaging. Journal of the American College of Cardiology, 2019, 73, 1317-1335.	1.2	374
16	Multi-Scale Deep Reinforcement Learning for Real-Time 3D-Landmark Detection in CT Scans. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 176-189.	9.7	209
17	Anisotropic Hybrid Network for Cross-Dimension Transferable Feature Learning in 3D Medical Images. Advances in Computer Vision and Pattern Recognition, 2019, , 199-216.	0.9	3
18	Select, Attend, and Transfer: Light, Learnable Skip Connections. Lecture Notes in Computer Science, 2019, , 417-425.	1.0	13

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19	Reply to Liu et al.. Journal of Applied Physiology, 2018, 125, 1353-1353.	1.2	0
20	Nonlinear Adaptively Learned Optimization for Object Localization in 3D Medical Images. Lecture Notes in Computer Science, 2018, , 254-262.	1.0	1
21	3D Anisotropic Hybrid Network: Transferring Convolutional Features from 2D Images to 3D Anisotropic Volumes. Lecture Notes in Computer Science, 2018, , 851-858.	1.0	77
22	Towards intelligent robust detection of anatomical structures in incomplete volumetric data. Medical Image Analysis, 2018, 48, 203-213.	7.0	33
23	Personalized mitral valve closure computation and uncertainty analysis from 3D echocardiography. Medical Image Analysis, 2017, 35, 238-249.	7.0	14
24	Personalized blood flow computations: A hierarchical parameter estimation framework for tuning boundary conditions. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e02803.	1.0	10
25	Cascaded deep decision networks for classification of endoscopic images. Proceedings of SPIE, 2017, , .	0.8	4
26	Comprehensive preclinical evaluation of a multi-physics model of liver tumor radiofrequency ablation. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1543-1559.	1.7	12
27	Deep Image-to-Image Recurrent Network with Shape Basis Learning for Automatic Vertebra Labeling in Large-Scale 3D CT Volumes. Lecture Notes in Computer Science, 2017, , 498-506.	1.0	26
28	Robust Multi-scale Anatomical Landmark Detection in Incomplete 3D-CT Data. Lecture Notes in Computer Science, 2017, , 194-202.	1.0	18
29	Towards patient-specific modeling of mitral valve repair: 3D transesophageal echocardiography-derived parameter estimation. Medical Image Analysis, 2017, 35, 599-609.	7.0	20
30	Automatic Vertebra Labeling in Large-Scale 3D CT Using Deep Image-to-Image Network with Message Passing and Sparsity Regularization. Lecture Notes in Computer Science, 2017, , 633-644.	1.0	59
31	Automatic Liver Segmentation Using an Adversarial Image-to-Image Network. Lecture Notes in Computer Science, 2017, , 507-515.	1.0	114
32	Robust Landmark Detection in Volumetric Data with Efficient 3D Deep Learning. Advances in Computer Vision and Pattern Recognition, 2017, , 49-61.	0.9	2
33	A machine-learning approach for computation of fractional flow reserve from coronary computed tomography. Journal of Applied Physiology, 2016, 121, 42-52.	1.2	288
34	Deep Decision Network for Multi-class Image Classification. , 2016, , .		45
35	Challenges to Validate Multi-Physics Model of Liver Tumor Radiofrequency Ablation from Pre-clinical Data. , 2016, , 27-38.		1
36	Shaping the future through innovations: From medical imaging to precision medicine. Medical Image Analysis, 2016, 33, 19-26.	7.0	63

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37	A self-taught artificial agent for multi-physics computational model personalization. Medical Image Analysis, 2016, 34, 52-64.	7.0	20
38	Marginal Space Deep Learning: Efficient Architecture for Volumetric Image Parsing. IEEE Transactions on Medical Imaging, 2016, 35, 1217-1228.	5.4	124
39	Comparison of Fractional Flow Reserve Based on Computational Fluid Dynamics Modeling Using Coronary Angiographic Vessel Morphology Versus Invasively Measured Fractional Flow Reserve. American Journal of Cardiology, 2016, 117, 29-35.	0.7	68
40	An Artificial Agent for Anatomical Landmark Detection in Medical Images. Lecture Notes in Computer Science, 2016, , 229-237.	1.0	90
41	Noninvasive hemodynamic assessment, treatment outcome prediction and follow‐up of aortic coarctation from MR imaging. Medical Physics, 2015, 42, 2143-2156.	1.6	18
42	Towards Personalized Cardiology: Multi-Scale Modeling of the Failing Heart. PLoS ONE, 2015, 10, e0134869.	1.1	65
43	Efficient Lattice Boltzmann Solver for Patient-Specific Radiofrequency Ablation of Hepatic Tumors. IEEE Transactions on Medical Imaging, 2015, 34, 1576-1589.	5.4	41
44	Robust object tracking using semi-supervised appearance dictionary learning. Pattern Recognition Letters, 2015, 62, 17-23.	2.6	32
45	3D Deep Learning for Efficient and Robust Landmark Detection in Volumetric Data. Lecture Notes in Computer Science, 2015, , 565-572.	1.0	87
46	A parameter estimation framework for patient-specific hemodynamic computations. Journal of Computational Physics, 2015, 281, 316-333.	1.9	20
47	Estimation of Regional Electrical Properties of the Heart from 12-Lead ECG and Images. Lecture Notes in Computer Science, 2015, , 204-212.	1.0	3
48	Propagation of Myocardial Fibre Architecture Uncertainty on Electromechanical Model Parameter Estimation: A Case Study. Lecture Notes in Computer Science, 2015, , 448-456.	1.0	5
49	Marginal Space Deep Learning: Efficient Architecture for Detection in Volumetric Image Data. Lecture Notes in Computer Science, 2015, , 710-718.	1.0	8
50	Vito â€" A Generic Agent for Multi-physics Model Personalization: Application to Heart Modeling. Lecture Notes in Computer Science, 2015, , 442-449.	1.0	1
51	Data-Driven Model Reduction for Fast, High Fidelity Atrial Electrophysiology Computations. Lecture Notes in Computer Science, 2015, , 466-474.	1.0	0
52	Robust Live Tracking of Mitral Valve Annulus for Minimally-Invasive Intervention Guidance. Lecture Notes in Computer Science, 2015, , 439-446.	1.0	2
53	Automatic image-to-model framework for patient-specific electromechanical modeling of the heart. , 2014, , .		3
54	Model based non-invasive estimation of PV loop from echocardiography. , 2014, 2014, 6774-7.		6

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55	Marginal Space Learning for Medical Image Analysis. , 2014, , .		17
56	Multi-Part Modeling and Segmentation of Left Atrium in C-Arm CT for Image-Guided Ablation of Atrial Fibrillation. IEEE Transactions on Medical Imaging, 2014, 33, 318-331.	5.4	28
57	Automatic Detection and Measurement of Structures in Fetal Head Ultrasound Volumes Using Sequential Estimation and Integrated Detection Network (IDN). IEEE Transactions on Medical Imaging, 2014, 33, 1054-1070.	5.4	27
58	Data-driven estimation of cardiac electrical diffusivity from 12-lead ECG signals. Medical Image Analysis, 2014, 18, 1361-1376.	7.0	42
59	Nonrigid Object Segmentation: Application to Four-Chamber Heart Segmentation. , 2014, , 159-198.		0
60	Marginal Space Learning. , 2014, , 25-65.		4
61	Lung Segmentation from CT with Severe Pathologies Using Anatomical Constraints. Lecture Notes in Computer Science, 2014, 17, 804-811.	1.0	11
62	Robust Image-Based Estimation of Cardiac Tissue Parameters and Their Uncertainty from Noisy Data. Lecture Notes in Computer Science, 2014, 17, 9-16.	1.0	13
63	Parameter Estimation for Personalization of Liver Tumor Radiofrequency Ablation. Lecture Notes in Computer Science, 2014, , 3-12.	1.0	7
64	Model-Based Estimation of 4D Relative Pressure Map from 4D Flow MR Images. Lecture Notes in Computer Science, 2014, , 236-243.	1.0	4
65	Comparison of Marginal Space Learning and Full Space Learning in 2D. , 2014, , 67-78.		0
66	Part-Based Object Detection and Segmentation. , 2014, , 103-135.		0
67	Constrained Marginal Space Learning. , 2014, , 79-101.		0
68	Automatic Personalization of the Mitral Valve Biomechanical Model Based on 4D Transesophageal Echocardiography. Lecture Notes in Computer Science, 2014, , 162-170.	1.0	0
69	Applications of Marginal Space Learning in Medical Imaging. , 2014, , 199-256.		0
70	A Framework for the Pre-clinical Validation of LBM-EP for the Planning and Guidance of Ventricular Tachycardia Ablation. Lecture Notes in Computer Science, 2014, , 253-261.	1.0	0
71	Optimal Mean Shape for Nonrigid Object Detection and Segmentation. , 2014, , 137-158.		0
72	Spine detection in CT and MR using iterated marginal space learning. Medical Image Analysis, 2013, 17, 1283-1292.	7.0	100

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73	Image-based Co-Registration of Angiography and Intravascular Ultrasound Images. IEEE Transactions on Medical Imaging, 2013, 32, 2238-2249.	5.4	21
74	Non-Invasive Hemodynamic Assessment of Aortic Coarctation: Validation with In Vivo Measurements. Annals of Biomedical Engineering, 2013, 41, 669-681.	1.3	59
75	Lymph node detection and segmentation in chest CT data using discriminative learning and a spatial prior. Medical Image Analysis, 2013, 17, 254-270.	7.0	58
76	Learning-Based Detection and Tracking in Medical Imaging: A Probabilistic Approach. Lecture Notes in Computational Vision and Biomechanics, 2013, , 209-235.	0.5	10
77	Image-Based Computational Models for TAVI Planning: From CT Images to Implant Deployment. Lecture Notes in Computer Science, 2013, 16, 395-402.	1.0	15
78	Advanced intervention planning for Transcatheter Aortic Valve Implantations (TAVI) from CT using volumetric models. , 2013, , .		4
79	A novel coupling algorithm for computing blood flow in viscoelastic arterial models. , 2013, 2013, 727-30.		3
80	Estimation of patient-specific material properties of the mitral valve using 4D Transesophageal Echocardiography. , 2013, , .		4
81	Automatic Detection and Quantification of Mitral Regurgitation on TTE with Application to Assist Mitral Clip Planning and Evaluation. Lecture Notes in Computer Science, 2013, , 33-41.	1.0	4
82	Data-Driven Reduction of a Cardiac Myofilament Model. Lecture Notes in Computer Science, 2013, , 232-240.	1.0	6
83	From Medical Images to Fast Computational Models of Heart Electromechanics: An Integrated Framework towards Clinical Use. Lecture Notes in Computer Science, 2013, , 249-258.	1.0	4
84	Lattice Boltzmann Method for Fast Patient-Specific Simulation of Liver Tumor Ablation from CT Images. Lecture Notes in Computer Science, 2013, 16, 323-330.	1.0	10
85	Fast Data-Driven Calibration of a Cardiac Electrophysiology Model from Images and ECG. Lecture Notes in Computer Science, 2013, 16, 1-8.	1.0	8
86	Precise segmentation of the left atrium in C-arm CT volumes with applications to atrial fibrillation ablation. , 2012, , .		9
87	A framework for personalization of coronary flow computations during rest and hyperemia. , 2012, 2012, 6665-8.		28
88	Enhancement of organ of interest via background subtraction in cone beam rotational angiocardiogram. , 2012, , .		0
89	Personalized learning-based segmentation of thoracic aorta and main branches for diagnosis and treatment planning. , 2012, , .		5
90	Robust pigtail catheter tip detection in fluoroscopy. Proceedings of SPIE, 2012, , .	0.8	1

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91	Robust tracking of a virtual electrode on a coronary sinus catheter for atrial fibrillation ablation procedures. Proceedings of SPIE, 2012, , .	0.8	0
92	Automatic Aorta Segmentation and Valve Landmark Detection in C-Arm CT for Transcatheter Aortic Valve Implantation. IEEE Transactions on Medical Imaging, 2012, 31, 2307-2321.	5.4	83
93	Complete valvular heart apparatus model from 4D cardiac CT. Medical Image Analysis, 2012, 16, 1003-1014.	7.0	57
94	An integrated framework for finite-element modeling of mitral valve biomechanics from medical images: Application to MitralClip intervention planning. Medical Image Analysis, 2012, 16, 1330-1346.	7.0	94
95	A Discriminative Distance Learning–Based CBIR Framework for Characterization of Indeterminate Liver Lesions. Lecture Notes in Computer Science, 2012, , 92-104.	1.0	8
96	Fast tracking of catheters in 2D fluoroscopic images using an integrated CPU-GPU framework. , 2012, , .		5
97	Automatic Detection and Segmentation of Lymph Nodes From CT Data. IEEE Transactions on Medical Imaging, 2012, 31, 240-250.	5.4	74
98	Real Time Assistance for Stent Positioning and Assessment by Self-initialized Tracking. Lecture Notes in Computer Science, 2012, 15, 405-413.	1.0	4
99	Data-Driven Breast Decompression and Lesion Mapping from Digital Breast Tomosynthesis. Lecture Notes in Computer Science, 2012, 15, 438-446.	1.0	2
100	LBM-EP: Lattice-Boltzmann Method for Fast Cardiac Electrophysiology Simulation from 3D Images. Lecture Notes in Computer Science, 2012, 15, 33-40.	1.0	17
101	Hemodynamic Assessment of Pre- and Post-operative Aortic Coarctation from MRI. Lecture Notes in Computer Science, 2012, 15, 486-493.	1.0	5
102	Ultrasound and Fluoroscopic Images Fusion by Autonomous Ultrasound Probe Detection. Lecture Notes in Computer Science, 2012, 15, 544-551.	1.0	12
103	Computational Fluid Dynamics Framework for Large-Scale Simulation in Pediatric Cardiology. , 2012, , 97-106.		1
104	Learning-based hypothesis fusion for robust catheter tracking in 2D X-ray fluoroscopy. , 2011, , .		29
105	Detection of 3D Spinal Geometry Using Iterated Marginal Space Learning. Lecture Notes in Computer Science, 2011, , 96-105.	1.0	28
106	Fully automatic segmentation of wrist bones for arthritis patients. , 2011, , .		9
107	Combined semantic and similarity search in medical image databases. , 2011, , .		14
108	A method for mass candidate detection and an application to liver lesion detection. , 2011, , .		0

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109	A Probabilistic Model for Automatic Segmentation of the Esophagus in 3-D CT Scans. IEEE Transactions on Medical Imaging, 2011, 30, 1252-1264.	5.4	22
110	Prediction Based Collaborative Trackers (PCT): A Robust and Accurate Approach Toward 3D Medical Object Tracking. IEEE Transactions on Medical Imaging, 2011, 30, 1921-1932.	5.4	54
111	Machine learning based vesselness measurement for coronary artery segmentation in cardiac CT volumes. Proceedings of SPIE, 2011, , .	0.8	25
112	Robust discriminative wire structure modeling with application to stent enhancement in fluoroscopy. , 2011, , .		10
113	Patient-specific modelling of whole heart anatomy, dynamics and haemodynamics from four-dimensional cardiac CT images. Interface Focus, 2011, 1, 286-296.	1.5	105
114	Automatic cardiac flow quantification on 3D volume color Doppler data. , 2011, , .		12
115	Learning distance function for regression-based 4D pulmonary trunk model reconstruction estimated from sparse MRI data. , 2011, , .		2
116	Vascular landmark detection in 3D CT data. Proceedings of SPIE, 2011, , .	0.8	3
117	Automatic Delineation of Left and Right Ventricles in Cardiac MRI Sequences Using a Joint Ventricular Model. Lecture Notes in Computer Science, 2011, , 250-258.	1.0	14
118	Patient-Specific Model of Left Heart Anatomy, Dynamics and Hemodynamics from 4D TEE: A First Validation Study. Lecture Notes in Computer Science, 2011, , 341-349.	1.0	7
119	Image-Based Device Tracking for the Co-registration of Angiography and Intravascular Ultrasound Images. Lecture Notes in Computer Science, 2011, 14, 161-168.	1.0	11
120	Detection, Grading and Classification of Coronary Stenoses in Computed Tomography Angiography. Lecture Notes in Computer Science, 2011, 14, 25-32.	1.0	42
121	Efficient Detection of Native and Bypass Coronary Ostia in Cardiac CT Volumes: Anatomical vs. Pathological Structures. Lecture Notes in Computer Science, 2011, 14, 403-410.	1.0	6
122	Automatic Extraction of 3D Dynamic Left Ventricle Model from 2D Rotational Angiocardiogram. Lecture Notes in Computer Science, 2011, 14, 471-478.	1.0	7
123	Automatic View Planning for Cardiac MRI Acquisition. Lecture Notes in Computer Science, 2011, 14, 479-486.	1.0	32
124	Multi-part Left Atrium Modeling and Segmentation in C-Arm CT Volumes for Atrial Fibrillation Ablation. Lecture Notes in Computer Science, 2011, 14, 487-495.	1.0	11
125	Robust Physically-Constrained Modeling of the Mitral Valve and Subvalvular Apparatus. Lecture Notes in Computer Science, 2011, 14, 504-511.	1.0	17
126	Segmentation Based Features for Lymph Node Detection from 3-D Chest CT. Lecture Notes in Computer Science, 2011, , 91-99.	1.0	2

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127	Accurate Regression-Based 4D Mitral Valve Surface Reconstruction from 2D+t MRI Slices. Lecture Notes in Computer Science, 2011, , 282-290.	1.0	0
128	Robust and Fast Contrast Inflow Detection for 2D X-ray Fluoroscopy. Lecture Notes in Computer Science, 2011, 14, 243-250.	1.0	8
129	Model-Based Fusion of Multi-modal Volumetric Images: Application to Transcatheter Valve Procedures. Lecture Notes in Computer Science, 2011, 14, 219-226.	1.0	6
130	Patient-Specific Modeling and Quantification of the Aortic and Mitral Valves From 4-D Cardiac CT and TEE. IEEE Transactions on Medical Imaging, 2010, 29, 1636-1651.	5.4	176
131	Automatic Aorta Segmentation and Valve Landmark Detection in C-Arm CT: Application to Aortic Valve Implantation. Lecture Notes in Computer Science, 2010, 13, 476-483.	1.0	41
132	Aortic valve and ascending aortic root modeling from 3D and 3D+t CT. , 2010, , .		3
133	Learning-based 3D myocardial motion flowestimation using high frame rate volumetric ultrasound data. , 2010, , .		6
134	Using needle detection and tracking for motion compensation in abdominal interventions. , 2010, , .		7
135	Semantic annotation of medical images. , 2010, , .		34
136	Fast and Automatic Heart Isolation in 3D CT Volumes: Optimal Shape Initialization. Lecture Notes in Computer Science, 2010, , 84-91.	1.0	16
137	Learning discriminative distance functions for valve retrieval and improved decision support in valvular heart disease. , 2010, , .		2
138	Database-guided breast tumor detection and segmentation in 2D ultrasound images. Proceedings of SPIE, 2010, , .	0.8	14
139	Multiple object detection by sequential monte carlo and Hierarchical Detection Network. , 2010, , .		15
140	Lymph node detection in 3-D chest CT using a spatial prior probability. , 2010, , .		20
141	Search strategies for multiple landmark detection by submodular maximization. , 2010, , .		28
142	Detection and retrieval of cysts in joint ultrasound B-mode and elasticity breast images. , 2010, , .		6
143	Patient-specific modeling of left heart anatomy, dynamics and hemodynamics from high resolution 4D CT. , 2010, , .		14
144	Robust ultrasound image analysis using learning. , 2010, , .		0

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145	Complete Valvular Heart Apparatus Model from 4D Cardiac CT. Lecture Notes in Computer Science, 2010, 13, 218-226.	1.0	11
146	Automatic Detection and Segmentation of Axillary Lymph Nodes. Lecture Notes in Computer Science, 2010, 13, 28-36.	1.0	25
147	Cardiac Anchoring in MRI through Context Modeling. Lecture Notes in Computer Science, 2010, 13, 383-390.	1.0	19
148	Cross-Modality Assessment and Planning for Pulmonary Trunk Treatment Using CT and MRI Imaging. Lecture Notes in Computer Science, 2010, 13, 460-467.	1.0	2
149	Volumetric Myocardial Mechanics from 3D+t Ultrasound Data with Multi-model Tracking. Lecture Notes in Computer Science, 2010, , 184-193.	1.0	12
150	Patient-Specific Modeling of the Heart: Applications to Cardiovascular Disease Management. Lecture Notes in Computer Science, 2010, , 14-24.	1.0	3
151	Fast Automatic Detection of Calcified Coronary Lesions in 3D Cardiac CT Images. Lecture Notes in Computer Science, 2010, , 1-9.	1.0	17
152	Graph Based Interactive Detection of Curve Structures in 2D Fluoroscopy. Lecture Notes in Computer Science, 2010, 13, 269-277.	1.0	5
153	Computational Decision Support for Percutaneous Aortic Valve Implantation. Lecture Notes in Computer Science, 2010, , 247-256.	1.0	1
154	Model-Based Esophagus Segmentation from CT Scans Using a Spatial Probability Map. Lecture Notes in Computer Science, 2010, 13, 95-102.	1.0	4
155	Robust guidewire tracking in fluoroscopy. , 2009, , .		47
156	Automatic fetal face detection from ultrasound volumes via learning 3D and 2D information. , 2009, , .		9
157	Robust motion estimation using trajectory spectrum learning: Application to aortic and mitral valve modeling from 4D TEE. , 2009, , .		6
158	Estimating the body portion of CT volumes by matching histograms of visual words. Proceedings of SPIE, 2009, , .	0.8	12
159	Left ventricle endocardium segmentation for cardiac CT volumes using an optimal smooth surface. Proceedings of SPIE, 2009, , .	0.8	5
160	Model-driven physiological assessment of the mitral valve from 4D TEE. , 2009, , .		6
161	Automatic left ventricle detection in MRI images using marginal space learning and component-based voting. , 2009, , .		4
162	Shape-based diagnosis of the aortic valve. , 2009, , .		7

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163	Coronary DSA: enhancing coronary tree visibility through discriminative learning and robust motion estimation. Proceedings of SPIE, 2009, , .	0.8	6
164	Hierarchical parsing and semantic navigation of full body CT data. Proceedings of SPIE, 2009, , .	0.8	95
165	Hierarchical guidewire tracking in fluoroscopic sequences. Proceedings of SPIE, 2009, , .	0.8	3
166	User-constrained guidewire localization in fluoroscopy. Proceedings of SPIE, 2009, , .	0.8	8
167	Personalized Modeling and Assessment of the Aortic-Mitral Coupling from 4D TEE and CT. Lecture Notes in Computer Science, 2009, 12, 767-775.	1.0	21
168	Constrained marginal space learning for efficient 3D anatomical structure detection in medical images. , 2009, , .		23
169	Automatic ovarian follicle quantification from 3D ultrasound data using global/local context with database guided segmentation. , 2009, , .		21
170	Robust object detection using marginal space learning and ranking-based multi-detector aggregation: Application to left ventricle detection in 2D MRI images. , 2009, , .		10
171	Visual Tracking by Continuous Density Propagation in Sequential Bayesian Filtering Framework. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 919-930.	9.7	45
172	Marginal Space Learning for Efficient Detection of 2D/3D Anatomical Structures in Medical Images. Lecture Notes in Computer Science, 2009, 21, 411-422.	1.0	35
173	Coronary Tree Extraction Using Motion Layer Separation. Lecture Notes in Computer Science, 2009, 12, 116-123.	1.0	11
174	Personalized Pulmonary Trunk Modeling for Intervention Planning and Valve Assessment Estimated from CT Data. Lecture Notes in Computer Science, 2009, 12, 17-25.	1.0	7
175	Fast Automatic Segmentation of the Esophagus from 3D CT Data Using a Probabilistic Model. Lecture Notes in Computer Science, 2009, 12, 255-262.	1.0	17
176	Dynamic Layer Separation for Coronary DSA and Enhancement in Fluoroscopic Sequences. Lecture Notes in Computer Science, 2009, 12, 877-884.	1.0	17
177	Fast and Robust 3-D MRI Brain Structure Segmentation. Lecture Notes in Computer Science, 2009, 12, 575-583.	1.0	11
178	Constrained marginal space learning for efficient 3D anatomical structure detection in medical images. , 2009, , .		1
179	Automatic fetal face detection from ultrasound volumes via learning 3D and 2D information. , 2009, , .		0
180	Robust guidewire tracking in fluoroscopy. , 2009, , .		0

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181	Robust object detection using marginal space learning and ranking-based multi-detector aggregation: Application to left ventricle detection in 2D MRI images. , 2009, , .		1
182	Four-Chamber Heart Modeling and Automatic Segmentation for 3-D Cardiac CT Volumes Using Marginal Space Learning and Steerable Features. IEEE Transactions on Medical Imaging, 2008, 27, 1668-1681.	5.4	484
183	Detection and Measurement of Fetal Anatomies from Ultrasound Images using a Constrained Probabilistic Boosting Tree. IEEE Transactions on Medical Imaging, 2008, 27, 1342-1355.	5.4	163
184	Hierarchical, learning-based automatic liver segmentation. , 2008, , .		99
185	Sequential Kernel Density Approximation and Its Application to Real-Time Visual Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1186-1197.	9.7	140
186	Semantic-based indexing of fetal anatomies from 3-D ultrasound data using global/semi-local context and sequential sampling. , 2008, , .		24
187	Conditional density learning via regression with application to deformable shape segmentation. , 2008, , .		4
188	Accurate polyp segmentation for 3D CT colongraphy using multi-staged probabilistic binary learning and compositional model. , 2008, , .		17
189	Discriminative Learning for Deformable Shape Segmentation: A Comparative Study. Lecture Notes in Computer Science, 2008, , 711-724.	1.0	6
190	AutoMPR: Automatic detection of standard planes in 3D echocardiography. , 2008, , .		4
191	A learning based hierarchical model for vessel segmentation. , 2008, , .		11
192	A fast and accurate tracking algorithm of left ventricles in 3D echocardiography. , 2008, 5, 221-224.		20
193	3D ultrasound tracking of the left ventricle using one-step forward prediction and data fusion of collaborative trackers. , 2008, , .		14
194	Four-chamber heart modeling and automatic segmentation for 3D cardiac CT volumes. , 2008, , .		6
195	Dynamic Model-Driven Quantitative and Visual Evaluation of the Aortic Valve from 4D CT. Lecture Notes in Computer Science, 2008, 11, 686-694.	1.0	16
196	A Discriminative Model-Constrained Graph Cuts Approach to Fully Automated Pediatric Brain Tumor Segmentation in 3-D MRI. Lecture Notes in Computer Science, 2008, 11, 67-75.	1.0	56
197	AutoGate: Fast and Automatic Doppler Gate Localization in B-Mode Echocardiogram. Lecture Notes in Computer Science, 2008, 11, 230-237.	1.0	7
198	Simultaneous Detection and Registration for Ileo-Cecal Valve Detection in 3D CT Colongraphy. Lecture Notes in Computer Science, 2008, , 465-478.	1.0	15

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199	Automatic Mitral Valve Inflow Measurements from Doppler Echocardiography. Lecture Notes in Computer Science, 2008, 11, 983-990.	1.0	11
200	A boosting regression approach to medical anatomy detection. , 2007, , .		22
201	Fast Automatic Heart Chamber Segmentation from 3D CT Data Using Marginal Space Learning and Steerable Features. , 2007, , .		104
202	Hierarchical Learning of Curves Application to Guidewire Localization in Fluoroscopy. , 2007, , .		42
203	Joint Real-time Object Detection and Pose Estimation Using Probabilistic Boosting Network. , 2007, , .		33
204	Shape Regression Machine. Lecture Notes in Computer Science, 2007, 20, 13-25.	1.0	48
205	Automatic Fetal Measurements in Ultrasound Using Constrained Probabilistic Boosting Tree. , 2007, 10, 571-579.		12
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