Dorin Comaniciu

List of Publications by Year in descending order

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225	16,685	66234	16605
papers	citations	42 h-index	123 g-index

239	239	239	13682
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mean shift: a robust approach toward feature space analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2002, 24, 603-619.	9.7	8,904
2	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
3	Total variation models for variable lighting face recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1519-1524.	9.7	395
4	Artificial Intelligence in Cardiovascular Imaging. Journal of the American College of Cardiology, 2019, 73, 1317-1335.	1.2	374
5	An algorithm for data-driven bandwidth selection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 281-288.	9.7	291
6	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
7	Combo loss: Handling input and output imbalance in multi-organ segmentation. Computerized Medical Imaging and Graphics, 2019, 75, 24-33.	3.5	212
8	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
9	A common framework for nonlinear diffusion, adaptive smoothing, bilateral filtering and mean shift. Image and Vision Computing, 2004, 22, 73-81.	2.7	196
10	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
11	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
12	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
13	Image-guided decision support system for pathology. Machine Vision and Applications, 1999, 11, 213-224.	1.7	136
14	Distribution Free Decomposition of Multivariate Data. Pattern Analysis and Applications, 1999, 2, 22-30.	3.1	130
15	Marginal Space Deep Learning: Efficient Architecture for Volumetric Image Parsing. IEEE Transactions on Medical Imaging, 2016, 35, 1217-1228.	5.4	124
16	Automatic Liver Segmentation Using an Adversarial Image-to-Image Network. Lecture Notes in Computer Science, 2017, , 507-515.	1.0	114
17	Robust anisotropic Gaussian fitting for volumetric characterization of Pulmonary nodules in multislice CT. IEEE Transactions on Medical Imaging, 2005, 24, 409-423.	5.4	108
18	Automated Quantification of CT Patterns Associated with COVID-19 from Chest CT. Radiology: Artificial Intelligence, 2020, 2, e200048.	3.0	108

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19	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
20	Fast Automatic Heart Chamber Segmentation from 3D CT Data Using Marginal Space Learning and Steerable Features. , 2007, , .		104
21	Spine detection in CT and MR using iterated marginal space learning. Medical Image Analysis, 2013, 17, 1283-1292.	7.0	100
22	Hierarchical, learning-based automatic liver segmentation. , 2008, , .		99
23	Hierarchical parsing and semantic navigation of full body CT data. Proceedings of SPIE, 2009, , .	0.8	95
24	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
25	Robust Real-Time Myocardial Border Tracking for Echocardiography: An Information Fusion Approach. IEEE Transactions on Medical Imaging, 2004, 23, 849-860.	5.4	93
26	An information fusion framework for robust shape tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 115-129.	9.7	93
27	An Artificial Agent for Anatomical Landmark Detection in Medical Images. Lecture Notes in Computer Science, 2016, , 229-237.	1.0	90
28	3D Deep Learning for Efficient and Robust Landmark Detection in Volumetric Data. Lecture Notes in Computer Science, 2015, , 565-572.	1.0	87
29	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
30	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
31	Automatic Detection and Segmentation of Lymph Nodes From CT Data. IEEE Transactions on Medical Imaging, 2012, 31, 240-250.	5.4	74
32	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
33	Towards Personalized Cardiology: Multi-Scale Modeling of the Failing Heart. PLoS ONE, 2015, 10, e0134869.	1.1	65
34	Reliable Detection of Overtaking Vehicles Using Robust Information Fusion. IEEE Transactions on Intelligent Transportation Systems, 2006, 7, 401-414.	4.7	63
35	Shaping the future through innovations: From medical imaging to precision medicine. Medical Image Analysis, 2016, 33, 19-26.	7.0	63
36	3D Printing, Computational Modeling, and Artificial Intelligence for Structural Heart Disease. JACC: Cardiovascular Imaging, 2021, 14, 41-60.	2.3	63

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37	Non-Invasive Hemodynamic Assessment of Aortic Coarctation: Validation with In Vivo Measurements. Annals of Biomedical Engineering, 2013, 41, 669-681.	1.3	59
38	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
39	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
40	Complete valvular heart apparatus model from 4D cardiac CT. Medical Image Analysis, 2012, 16, 1003-1014.	7.0	57
41	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
42	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
43	Shape Regression Machine. Lecture Notes in Computer Science, 2007, 20, 13-25.	1.0	48
44	Robust guidewire tracking in fluoroscopy. , 2009, , .		47
45	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
46	Deep Decision Network for Multi-class Image Classification. , 2016, , .		45
47	Hierarchical Learning of Curves Application to Guidewire Localization in Fluoroscopy. , 2007, , .		42
48	Data-driven estimation of cardiac electrical diffusivity from 12-lead ECG signals. Medical Image Analysis, 2014, 18, 1361-1376.	7.0	42
49	Detection, Grading and Classification of Coronary Stenoses in Computed Tomography Angiography. Lecture Notes in Computer Science, 2011, 14, 25-32.	1.0	42
50	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
51	Efficient Lattice Boltzmann Solver for Patient-Specific Radiofrequency Ablation of Hepatic Tumors. IEEE Transactions on Medical Imaging, 2015, 34, 1576-1589.	5.4	41
52	Artificial Intelligence in Diagnostic Imaging. Journal of Thoracic Imaging, 2020, 35, S11-S16.	0.8	35
53	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
54	Semantic annotation of medical images. , 2010, , .		34

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55	Joint Real-time Object Detection and Pose Estimation Using Probabilistic Boosting Network. , 2007, , .		33
56	Towards intelligent robust detection of anatomical structures in incomplete volumetric data. Medical Image Analysis, 2018, 48, 203-213.	7.0	33
57	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
58	Robust object tracking using semi-supervised appearance dictionary learning. Pattern Recognition Letters, 2015, 62, 17-23.	2.6	32
59	Automatic View Planning for Cardiac MRI Acquisition. Lecture Notes in Computer Science, 2011, 14, 479-486.	1.0	32
60	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
61	Learning-based hypothesis fusion for robust catheter tracking in 2D X-ray fluoroscopy. , 2011, , .		29
62	Search strategies for multiple landmark detection by submodular maximization. , 2010, , .		28
63	Detection of 3D Spinal Geometry Using Iterated Marginal Space Learning. Lecture Notes in Computer Science, 2011, , 96-105.	1.0	28
64	A framework for personalization of coronary flow computations during rest and hyperemia. , 2012, 2012, 6665-8.		28
65	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
66	Quantifying and leveraging predictive uncertainty for medical image assessment. Medical Image Analysis, 2021, 68, 101855.	7.0	28
67	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
68	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
69	Machine learning based vesselness measurement for coronary artery segmentation in cardiac CT volumes. Proceedings of SPIE, 2011, , .	0.8	25
70	Automatic Detection and Segmentation of Axillary Lymph Nodes. Lecture Notes in Computer Science, 2010, 13, 28-36.	1.0	25
71	Semantic-based indexing of fetal anatomies from 3-D ultrasound data using global/semi-local context and sequential sampling. , 2008, , .		24
72	Constrained marginal space learning for efficient 3D anatomical structure detection in medical images. , 2009, , .		23

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73	A boosting regression approach to medical anatomy detection. , 2007, , .		22
74	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
75	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
76	Automatic ovarian follicle quantification from 3D ultrasound data using global/local context with database guided segmentation. , 2009, , .		21
77	Image-based Co-Registration of Angiography and Intravascular Ultrasound Images. IEEE Transactions on Medical Imaging, 2013, 32, 2238-2249.	5.4	21
78	A fast and accurate tracking algorithm of left ventricles in 3D echocardiography. , 2008, 5, 221-224.		20
79	Lymph node detection in 3-D chest CT using a spatial prior probability. , 2010, , .		20
80	A parameter estimation framework for patient-specific hemodynamic computations. Journal of Computational Physics, 2015, 281, 316-333.	1.9	20
81	A self-taught artificial agent for multi-physics computational model personalization. Medical Image Analysis, 2016, 34, 52-64.	7.0	20
82	Towards patient-specific modeling of mitral valve repair: 3D transesophageal echocardiography-derived parameter estimation. Medical Image Analysis, 2017, 35, 599-609.	7.0	20
83	Machine learning automatically detects COVID-19 using chest CTs in a large multicenter cohort. European Radiology, 2021, 31, 8775-8785.	2.3	20
84	Cardiac Anchoring in MRI through Context Modeling. Lecture Notes in Computer Science, 2010, 13, 383-390.	1.0	19
85	Noninvasive hemodynamic assessment, treatment outcome prediction and followâ€up of aortic coarctation from MR imaging. Medical Physics, 2015, 42, 2143-2156.	1.6	18
86	Robust Multi-scale Anatomical Landmark Detection in Incomplete 3D-CT Data. Lecture Notes in Computer Science, 2017, , 194-202.	1.0	18
87	Robust classification from noisy labels: Integrating additional knowledge for chest radiography abnormality assessment. Medical Image Analysis, 2021, 72, 102087.	7.0	18
88	Accurate polyp segmentation for 3D CT colongraphy using multi-staged probabilistic binary learning and compositional model. , 2008, , .		17
89	Marginal Space Learning for Medical Image Analysis. , 2014, , .		17
90	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

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91	Dynamic Layer Separation for Coronary DSA and Enhancement in Fluoroscopic Sequences. Lecture Notes in Computer Science, 2009, 12, 877-884.	1.0	17
92	Fast Automatic Detection of Calcified Coronary Lesions in 3D Cardiac CT Images. Lecture Notes in Computer Science, 2010, , 1-9.	1.0	17
93	Robust Physically-Constrained Modeling of the Mitral Valve and Subvalvular Apparatus. Lecture Notes in Computer Science, 2011, 14, 504-511.	1.0	17
94	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
95	Fast and Automatic Heart Isolation in 3D CT Volumes: Optimal Shape Initialization. Lecture Notes in Computer Science, 2010, , 84-91.	1.0	16
96	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
97	Multiple object detection by sequential monte carlo and Hierarchical Detection Network. , 2010, , .		15
98	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
99	Simultaneous Detection and Registration for Ileo-Cecal Valve Detection in 3D CT Colonography. Lecture Notes in Computer Science, 2008, , 465-478.	1.0	15
100	3D ultrasound tracking of the left ventricle using one-step forward prediction and data fusion of collaborative trackers. , 2008, , .		14
101	Database-guided breast tumor detection and segmentation in 2D ultrasound images. Proceedings of SPIE, 2010, , .	0.8	14
102	Patient-specific modeling of left heart anatomy, dynamics and hemodynamics from high resolution 4D CT. , 2010, , .		14
103	Combined semantic and similarity search in medical image databases. , 2011, , .		14
104	Personalized mitral valve closure computation and uncertainty analysis from 3D echocardiography. Medical Image Analysis, 2017, 35, 238-249.	7.0	14
105	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
106	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
107	Select, Attend, and Transfer: Light, Learnable Skip Connections. Lecture Notes in Computer Science, 2019, , 417-425.	1.0	13
108	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

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109	Component Fusion for Face Detection in the Presence of Heteroscedastic Noise. Lecture Notes in Computer Science, 2003, , 434-441.	1.0	13
110	Estimating the body portion of CT volumes by matching histograms of visual words. Proceedings of SPIE, 2009, , .	0.8	12
111	Automatic cardiac flow quantification on 3D volume color Doppler data. , 2011, , .		12
112	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
113	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
114	Automatic Fetal Measurements in Ultrasound Using Constrained Probabilistic Boosting Tree. , 2007, 10, 571-579.		12
115	Volumetric Myocardial Mechanics from 3D+t Ultrasound Data with Multi-model Tracking. Lecture Notes in Computer Science, 2010, , 184-193.	1.0	12
116	Ultrasound and Fluoroscopic Images Fusion by Autonomous Ultrasound Probe Detection. Lecture Notes in Computer Science, 2012, 15, 544-551.	1.0	12
117	A learning based hierarchical model for vessel segmentation. , 2008, , .		11
118	Lung Segmentation from CT with Severe Pathologies Using Anatomical Constraints. Lecture Notes in Computer Science, 2014, 17, 804-811.	1.0	11
119	Coronary Tree Extraction Using Motion Layer Separation. Lecture Notes in Computer Science, 2009, 12, 116-123.	1.0	11
120	Fast and Robust 3-D MRI Brain Structure Segmentation. Lecture Notes in Computer Science, 2009, 12, 575-583.	1.0	11
121	Complete Valvular Heart Apparatus Model from 4D Cardiac CT. Lecture Notes in Computer Science, 2010, 13, 218-226.	1.0	11
122	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
123	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
124	Automatic Mitral Valve Inflow Measurements from Doppler Echocardiography. Lecture Notes in Computer Science, 2008, 11, 983-990.	1.0	11
125	Robust object detection using marginal space learning and ranking-based multi-detector aggregation: Application to left ventricle detection in 2D MRI images. , 2009, , .		10
126	Robust discriminative wire structure modeling with application to stent enhancement in fluoroscopy. , 2011, , .		10

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127	Learning-Based Detection and Tracking in Medical Imaging: A Probabilistic Approach. Lecture Notes in Computational Vision and Biomechanics, 2013, , 209-235.	0.5	10
128	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
129	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
130	Robust 3D Segmentation of Pulmonary Nodules in Multislice CT Images. Lecture Notes in Computer Science, 2004, , 881-889.	1.0	9
131	Automatic fetal face detection from ultrasound volumes via learning 3D and 2D information. , 2009, , .		9
132	Fully automatic segmentation of wrist bones for arthritis patients. , 2011, , .		9
133	Precise segmentation of the left atrium in C-arm CT volumes with applications to atrial fibrillation ablation. , 2012, , .		9
134	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
135	User-constrained guidewire localization in fluoroscopy. Proceedings of SPIE, 2009, , .	0.8	8
136	A Discriminative Distance Learningâ€“Based CBIR Framework for Characterization of Indeterminate Liver Lesions. Lecture Notes in Computer Science, 2012, , 92-104.	1.0	8
137	Multi-scale Vessel Boundary Detection. Lecture Notes in Computer Science, 2005, , 388-398.	1.0	8
138	Marginal Space Deep Learning: Efficient Architecture for Detection in Volumetric Image Data. Lecture Notes in Computer Science, 2015, , 710-718.	1.0	8
139	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
140	Robust and Fast Contrast Inflow Detection for 2D X-ray Fluoroscopy. Lecture Notes in Computer Science, 2011, 14, 243-250.	1.0	8
141	Shape-based diagnosis of the aortic valve. , 2009, , .		7
142	Using needle detection and tracking for motion compensation in abdominal interventions. , 2010, , .		7
143	Parameter Estimation for Personalization of Liver Tumor Radiofrequency Ablation. Lecture Notes in Computer Science, 2014, , 3-12.	1.0	7
144	AutoGate: Fast and Automatic Doppler Gate Localization in B-Mode Echocardiogram. Lecture Notes in Computer Science, 2008, 11, 230-237.	1.0	7

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145	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
146	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
147	Automatic Extraction of 3D Dynamic Left Ventricle Model from 2D Rotational Angiocardiogram. Lecture Notes in Computer Science, 2011, 14, 471-478.	1.0	7
148	Discriminative Learning for Deformable Shape Segmentation: A Comparative Study. Lecture Notes in Computer Science, 2008, , 711-724.	1.0	6
149	Four-chamber heart modeling and automatic segmentation for 3D cardiac CT volumes. , 2008, , .		6
150	Robust motion estimation using trajectory spectrum learning: Application to aortic and mitral valve modeling from 4D TEE. , 2009, , .		6
151	Model-driven physiological assessment of the mitral valve from 4D TEE. , 2009, , .		6
152	Coronary DSA: enhancing coronary tree visibility through discriminative learning and robust motion estimation. Proceedings of SPIE, 2009, , .	0.8	6
153	Learning-based 3D myocardial motion flowestimation using high frame rate volumetric ultrasound data. , 2010, , .		6
154	Detection and retrieval of cysts in joint ultrasound B-mode and elasticity breast images. , 2010, , .		6
155	Model based non-invasive estimation of PV loop from echocardiography. , 2014, 2014, 6774-7.		6
156	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
157	Data-Driven Reduction of a Cardiac Myofilament Model. Lecture Notes in Computer Science, 2013, , 232-240.	1.0	6
158	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
159	Left ventricle endocardium segmentation for cardiac CT volumes using an optimal smooth surface. Proceedings of SPIE, 2009, , .	0.8	5
160	Personalized learning-based segmentation of thoracic aorta and main branches for diagnosis and treatment planning. , 2012, , .		5
161	Fast tracking of catheters in 2D fluoroscopic images using an integrated CPU-GPU framework. , 2012, , .		5
162	Example Based Non-rigid Shape Detection. Lecture Notes in Computer Science, 2006, , 423-436.	1.0	5

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163	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
164	Hemodynamic Assessment of Pre- and Post-operative Aortic Coarctation from MRI. Lecture Notes in Computer Science, 2012, 15, 486-493.	1.0	5
165	Graph Based Interactive Detection of Curve Structures in 2D Fluoroscopy. Lecture Notes in Computer Science, 2010, 13, 269-277.	1.0	5
166	Conditional density learning via regression with application to deformable shape segmentation. , 2008, , .		4
167	AutoMPR: Automatic detection of standard planes in 3D echocardiography. , 2008, , .		4
168	Automatic left ventricle detection in MRI images using marginal space learning and component-based voting. , 2009, , .		4
169	Advanced intervention planning for Transcatheter Aortic Valve Implantations (TAVI) from CT using volumetric models. , 2013, , .		4
170	Estimation of patient-specific material properties of the mitral valve using 4D Transesophageal Echocardiography. , 2013, , .		4
171	Cascaded deep decision networks for classification of endoscopic images. Proceedings of SPIE, 2017, , .	0.8	4
172	Marginal Space Learning. , 2014, , 25-65.		4
173	Coupled-Contour Tracking through Non-orthogonal Projections and Fusion for Echocardiography. Lecture Notes in Computer Science, 2004, , 336-349.	1.0	4
174	Real Time Assistance for Stent Positioning and Assessment by Self-initialized Tracking. Lecture Notes in Computer Science, 2012, 15, 405-413.	1.0	4
175	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
176	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
177	Model-Based Estimation of 4D Relative Pressure Map from 4D Flow MR Images. Lecture Notes in Computer Science, 2014, , 236-243.	1.0	4
178	Pairwise Active Appearance Model and Its Application to Echocardiography Tracking. Lecture Notes in Computer Science, 2006, 9, 736-743.	1.0	4
179	Model-Based Esophagus Segmentation from CT Scans Using a Spatial Probability Map. Lecture Notes in Computer Science, 2010, 13, 95-102.	1.0	4
180	Image coding using transform vector quantization with training set synthesis. Signal Processing, 2002, 82, 1649-1663.	2.1	3

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181	Dissimilarity computation through low rank corrections. Pattern Recognition Letters, 2003, 24, 227-236.	2.6	3
182	Hierarchical guidewire tracking in fluoroscopic sequences. Proceedings of SPIE, 2009, , .	0.8	3
183	Aortic valve and ascending aortic root modeling from 3D and 3D+t CT. , 2010, , .		3
184	Vascular landmark detection in 3D CT data. Proceedings of SPIE, 2011, , .	0.8	3
185	A novel coupling algorithm for computing blood flow in viscoelastic arterial models. , 2013, 2013, 727-30.		3
186	Automatic image-to-model framework for patient-specific electromechanical modeling of the heart. , 2014, , .		3
187	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
188	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
189	Patient-Specific Modeling of the Heart: Applications to Cardiovascular Disease Management. Lecture Notes in Computer Science, 2010, , 14-24.	1.0	3
190	Learning discriminative distance functions for valve retrieval and improved decision support in valvular heart disease. , 2010, , .		2
191	Learning distance function for regression-based 4D pulmonary trunk model reconstruction estimated from sparse MRI data. , 2011, , .		2
192	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
193	Segmentation Based Features for Lymph Node Detection from 3-D Chest CT. Lecture Notes in Computer Science, 2011, , 91-99.	1.0	2
194	Data-Driven Breast Decompression and Lesion Mapping from Digital Breast Tomosynthesis. Lecture Notes in Computer Science, 2012, 15, 438-446.	1.0	2
195	Robust Live Tracking of Mitral Valve Annulus for Minimally-Invasive Intervention Guidance. Lecture Notes in Computer Science, 2015, , 439-446.	1.0	2
196	Robust Landmark Detection in Volumetric Data with Efficient 3D Deep Learning. Advances in Computer Vision and Pattern Recognition, 2017, , 49-61.	0.9	2
197	Robust pigtail catheter tip detection in fluoroscopy. Proceedings of SPIE, 2012, , .	0.8	1
198	Challenges to Validate Multi-Physics Model of Liver Tumor Radiofrequency Ablation from Pre-clinical Data. , 2016, , 27-38.		1

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199	Nonlinear Adaptively Learned Optimization for Object Localization in 3D Medical Images. Lecture Notes in Computer Science, 2018, , 254-262.	1.0	1
200	Learning cardiac anatomy. , 2020, , 97-116.		1
201	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
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