Jan D'hooge

List of Publications by Year
in descending order

466 papers	17,207 citations	14655 66 h-index	18647 119 g-index
493 all docs	493 docs citations	493 times ranked	13083 citing authors

#	Article	IF	Citations
1	Transmural Wave Speed Gradient May Distinguish Intrinsic Myocardial Stiffening From Preload-Induced Changes in Operational Stiffness in Shear Wave Elastography. IEEE Transactions on Biomedical Engineering, 2023, 70, 259-270.	4.2	3
2	Spatiotemporal Distribution of Nanodroplet Vaporization in a Proton Beam Using Real-Time Ultrasound Imaging for Range Verification. Ultrasound in Medicine and Biology, 2022, 48, 149-156.	1.5	9
3	Assessing cardiac stiffness using ultrasound shear wave elastography. Physics in Medicine and Biology, 2022, 67, 02TR01.	3.0	22
4	Spatially Variant Ultrasound Attenuation Mapping Using a Regularized Linear Least-Squares Approach. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1596-1609.	3.0	5
5	3D segmentation of the left atrial appendage in computed tomography for planning of transcatheter occlusion. , 2022, , .		1
6	High-Frame-Rate Speckle Tracking for Echocardiographic Stress Testing. Ultrasound in Medicine and Biology, 2022, 48, 1644-1651.	1.5	4
7	Concepts and applications of ultrafast cardiac ultrasound imaging. Echocardiography, 2021, 38, 7-15.	0.9	7
8	Interactive Segmentation via Deep Learning and B-Spline Explicit Active Surfaces. Lecture Notes in Computer Science, 2021, , 315-325.	1.3	2
9	Validated Ultrasound Speckle Tracking Method for Measuring Strains of Knee Collateral Ligaments In-Situ during Varus/Valgus Loading. Sensors, 2021, 21, 1895.	3.8	7
10	Extracting neuronal activity signals from microscopy recordings of contractile tissue using B-spline Explicit Active Surfaces (BEAS) cell tracking. Scientific Reports, 2021, 11, 10937.	3.3	4
11	In Vivo Comparison of Multiline Transmission and Diverging Wave Imaging for High-Frame-Rate Speckle-Tracking Echocardiography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1511-1520.	3.0	10
12	Myocardial Strain Measured by Epicardial Transducersâ€"Comparison Between Velocity Estimators. Ultrasound in Medicine and Biology, 2021, 47, 1377-1396.	1.5	0
13	Kidney Segmentation in 3-D Ultrasound Images Using a Fast Phase-Based Approach. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1521-1531.	3.0	9
14	Non-rigid image registration using a modified fuzzy feature-based inference system for 3D cardiac motion estimation. Computer Methods and Programs in Biomedicine, 2021, 205, 106085.	4.7	3
15	A $128imes 1$ Phased Array Piezoelectric Micromachined Ultrasound Transducer (pMUT) for Medical Imaging. , 2021, , .		4
16	Feasibility and Accuracy of Automated Three-Dimensional Echocardiographic Analysis of Left Atrial Appendage for Transcatheter Closure. Journal of the American Society of Echocardiography, 2021, , .	2.8	5
17	Development and characterization of a sparse ellipsoidal 256 element array for volumetric ultrasound imaging. , 2021, , .		1
18	Validation of novel biomarkers to assess cardiac diastolic function extracted using a high frame rate speckle tracking algorithm. , 2021, , .		0

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19	Singular Value Decomposition Filtering for High Frame Rate Speckle Tracking Echocardiography. , 2021, , .		2
20	Interplay of cardiac remodelling and myocardial stiffness in hypertensive heart disease: a shear wave imaging study using high-frame rate echocardiography. European Heart Journal Cardiovascular Imaging, 2020, 21, 664-672.	1.2	23
21	The Generalized Contrast-to-Noise Ratio: A Formal Definition for Lesion Detectability. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 745-759.	3.0	226
22	Shear Wave Elastography Using High-Frame-Rate Imaging in the Follow-Up of Heart Transplantation Recipients. JACC: Cardiovascular Imaging, 2020, 13, 2304-2313.	5.3	22
23	A Novel 2-D Speckle Tracking Method for High-Frame-Rate Echocardiography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1764-1775.	3.0	14
24	Experimental validation of the prestretch-strain relationship as a non-invasive index of left ventricular myocardial contractility. PLoS ONE, 2020, 15, e0228027.	2.5	0
25	High-Frame-Rate Tri-Plane Echocardiography With Spiral Arrays: From Simulation to Real-Time Implementation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 57-69.	3.0	28
26	A Comparison of Coherence-Based Beamforming Techniques in High-Frame-Rate Ultrasound Imaging With Multi-Line Transmission. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 329-340.	3.0	34
27	High-Frame-Rate Color Doppler Echocardiography: A Quantitative Comparison of Different Approaches. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 923-933.	3.0	5
28	Automatic C-Plane Detection in Pelvic Floor Transperineal Volumetric Ultrasound. Lecture Notes in Computer Science, 2020, , 136-145.	1.3	3
29	The Effect of Different Coherence-Based Beamforming Techniques on the Accuracy of High Frame Rate Speckle Tracking Echocardiography. , 2020, , .		2
30	Design of a sparse ellipsoidal array for volumetric ultrasound imaging of the prostate. , 2020, , .		3
31	High frame rate color Doppler to measure intraventricular pressure gradients. , 2020, , .		2
32	Physical Principles of Ultrasound and Generation of Images. , 2019, , 1-15.e1.		0
33	Understanding Imaging Artifacts. , 2019, , 64-72.e1.		0
34	Area of the pressure-strain loop during ejection as non-invasive index of left ventricular performance: a population study. Cardiovascular Ultrasound, 2019, 17, 15.	1.6	8
35	Estimating Regional Myocardial Contraction Using Miniature Transducers on the Epicardium. Ultrasound in Medicine and Biology, 2019, 45, 2958-2969.	1.5	2
36	Assessment of aortic valve tract dynamics using automatic tracking of 3D transesophageal echocardiographic images. International Journal of Cardiovascular Imaging, 2019, 35, 881-895.	1.5	10

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37	Compressed Ultrasound Signal Reconstruction Using a Low-Rank and Joint-Sparse Representation Model. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1232-1245.	3.0	4
38	Non-invasive myocardial performance mapping using 3D echocardiographic stressâ€“strain loops. Physics in Medicine and Biology, 2019, 64, 115026.	3.0	1
39	Phase Change Ultrasound Contrast Agents with a Photopolymerized Diacetylene Shell. Langmuir, 2019, 35, 10116-10127.	3.5	17
40	Coded Excitation for Crosstalk Suppression in Multi-line Transmit Beamforming: Simulation Study and Experimental Validation. Applied Sciences (Switzerland), 2019, 9, 486.	2.5	11
41	Semiautomatic Estimation of Device Size for Left Atrial Appendage Occlusion in 3-D TEE Images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 922-929.	3.0	9
42	Deep Learning for Segmentation Using an Open Large-Scale Dataset in 2D Echocardiography. IEEE Transactions on Medical Imaging, 2019, 38, 2198-2210.	8.9	292
43	Velocities of Naturally Occurring Myocardial Shear Waves Increase With Age and in Cardiac Amyloidosis. JACC: Cardiovascular Imaging, 2019, 12, 2389-2398.	5.3	60
44	P606High intermodality variability in ejection fraction measured by echocardiography, cardiac magnetic resonance and single photon emission computed tomography in chronic coronary artery disease patients. European Heart Journal, 2019, 40, .	2.2	0
45	3D Convolutional Neural Network for Segmentation of the Urethra in Volumetric Ultrasound of the Pelvic Floor. , 2019, , .		2
46	Experimental validation of a novel technique for ultrasound imaging of cardiac fiber orientation. , 2019, , .		0
47	A Direct Measurement of Inter-Element Cross-Talk in Ultrasound Arrays. , 2019, , .		0
48	Multi-plane-transmit (MPT) Volumetric Imaging based on A Matrix Array: Experimental Validation. , 2019, , .		0
49	Clutter Filtering Using a 3D Deep Convolutional Neural Network. , 2019, , .		4
50	Enabling Ultrasound In-Body Communication: FIR Channel Models and QAM Experiments. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 135-144.	4.0	24
51	Natural Shear Wave Imaging in the Human Heart: Normal Values, Feasibility, and Reproducibility. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 442-452.	3.0	47
52	Semi-automatic aortic valve tract segmentation in 3D cardiac magnetic resonance images using shape-based B-spline explicit active surfaces. , 2019, , .		1
53	A linear least squares based estimation of spatial variation of the attenuation coefficient from ultrasound backscatter signals. Proceedings of Meetings on Acoustics, 2019, , .	0.3	4
54	Automatic left ventricular segmentation in 4D interventional ultrasound data using a patient-specific temporal synchronized shape prior. , 2019, , .		0

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55	Three-dimensional color Doppler ultrasound simulation to mimic paravalvular regurgitation. , 2019, , .		0
56	Ultrasound Imaging From Sparse RF Samples Using System Point Spread Functions. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 316-326.	3.0	17
57	2-D Myocardial Deformation Imaging Based on RF-Based Nonrigid Image Registration. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1037-1047.	3.0	10
58	Validation of a Novel Software Tool for Automatic Aortic Annular Sizing in Three-Dimensional Transesophageal Echocardiographic Images. Journal of the American Society of Echocardiography, 2018, 31, 515-525.e5.	2.8	17
59	Realistic Vendor-Specific Synthetic Ultrasound Data for Quality Assurance of 2-D Speckle Tracking Echocardiography: Simulation Pipeline and Open Access Database. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 411-422.	3.0	33
60	Multiline Transmit Beamforming Combined With Adaptive Apodization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 535-545.	3.0	24
61	Standardization of left atrial, right ventricular, and right atrial deformation imaging using two-dimensional speckle tracking echocardiography: a consensus document of the EACVI/ASE/Industry Task Force to standardize deformation imaging. European Heart Journal Cardiovascular Imaging, 2018, 19, 591-600.	1.2	891
62	Comparison of in vivo vs. ex situ obtained material properties of sheep common carotid artery. Medical Engineering and Physics, 2018, 55, 16-24.	1.7	4
63	Statistical Shape Modeling of the Left Ventricle: Myocardial Infarct Classification Challenge. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 503-515.	6.3	61
64	A Framework for the Generation of Realistic Synthetic Cardiac Ultrasound and Magnetic Resonance Imaging Sequences From the Same Virtual Patients. IEEE Transactions on Medical Imaging, 2018, 37, 741-754.	8.9	31
65	Temperature dependence of speed of sound and attenuation of porcine left ventricular myocardium. Ultrasonics, 2018, 82, 246-251.	3.9	8
66	3D Tendon Strain Estimation Using High-frequency Volumetric Ultrasound Images: A Feasibility Study. Ultrasonic Imaging, 2018, 40, 67-83.	2.6	7
67	Attenuation estimation by repeatedly solving the forward scattering problem. Ultrasonics, 2018, 84, 201-209.	3.9	9
68	Doppler indexes of left ventricular systolic and diastolic function in relation to haemodynamic load components in a general population. Journal of Hypertension, 2018, 36, 867-875.	0.5	4
69	Serial assessment of left ventricular morphology and function in a rodent model of ischemic cardiomyopathy. International Journal of Cardiovascular Imaging, 2018, 34, 385-397.	1.5	5
70	P6485Biventricular imaging markers to predict outcome in non-compaction cardiomyopathy: a machine learning study. European Heart Journal, 2018, 39, .	2.2	0
71	Modelling of Channels for Intra-Corporal Ultrasound Communication. , 2018, , .		2
72	Ultrasound Imaging of Cardiac Fiber Orientation: What are We Looking at?. , 2018, , .		1

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73	Machine Learning for Quality Assurance of Myocardial Strain Curves. , 2018, , .		2
74	Orthogonal Frequency Division Multiplexing Combined with Multi Line Transmission for Ultrafast Ultrasound Imaging: Experimental Findings. , 2018, , .		4
75	Tri-Plane Cardiac Imaging Using Multi-Line Transmission on a Spiral Array: A Feasibility Study. , 2018, , .		1
76	The Generalized Contrast-to-Noise Ratio. , 2018, , .		46
77	Fully Automatic Assessment of Mitral Valve Morphology from 3D Transthoracic Echocardiography. , 2018, , .		4
78	Estimation of the Spatial Resolution of a 2D Strain Estimator Using Synthetic Cardiac Images. , 2018, , .		2
79	Performance of F-DMAS beamforming with adjustable maximum spatial lag in multi-line transmission ultrasound imaging. , 2018, , .		2
80	Evaluation of Coherence-Based Beamforming for B-Mode and Speckle Tracking Echocardiography. , 2018, , .		4
81	Ultrasound Signal Reconstruction from Sparse Samples Using a Low-Rank and Joint-Sparse Model. , 2018, , .		0
82	Spatial Coherence Based Beamforming in Multi-Line Transmit Echocardiography. , 2018, , .		2
83	Real-Time High-Frame-Rate Cardiac B-Mode and Tissue Doppler Imaging Based on Multiline Transmission and Multiline Acquisition. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2030-2041.	3.0	21
84	Learning About Machine Learning to Create a Self-Driving Echocardiographic Laboratory. Circulation, 2018, 138, 1636-1638.	1.6	9
85	Fast Segmentation of the Left Atrial Appendage in 3-D Transesophageal Echocardiographic Images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2332-2342.	3.0	14
86	A Novel Interventional Guidance Framework for Transseptal Puncture in Left Atrial Interventions. Lecture Notes in Computer Science, 2018, , 93-101.	1.3	1
87	MITT: Medical Image Tracking Toolbox. IEEE Transactions on Medical Imaging, 2018, 37, 2547-2557.	8.9	24
88	Cardiac Troponin T Concentrations, Reversible Myocardial Ischemia, and Indices of Left Ventricular Remodeling in Patients with Suspected Stable Angina Pectoris: a DOPPLER-CIP Substudy. Clinical Chemistry, 2018, 64, 1370-1379.	3.2	15
89	Doppler-Based Motion Compensation Strategies for 3-D Diverging Wave Compounding and Multiplane-Transmit Beamforming: A Simulation Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1631-1642.	3.0	12
90	Segmentation of kidney and renal collecting system on 3D computed tomography images. , 2018, , .		3

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91	Diagnosis of Heart Failure With Preserved Ejection Fraction: Machine Learning of Spatiotemporal Variations in Left Ventricular Deformation. Journal of the American Society of Echocardiography, 2018, 31, 1272-1284.e9.	2.8	90
92	Automated segmentation of the atrial region and fossa ovalis towards computer-aided planning of inter-atrial wall interventions. Computer Methods and Programs in Biomedicine, 2018, 161, 73-84.	4.7	2
93	Automatic segmentation method of pelvic floor levator hiatus in ultrasound using a self-normalizing neural network. Journal of Medical Imaging, 2018, 5, 1.	1.5	19
94	Technical note: automatic segmentation method of pelvic floor levator hiatus in ultrasound using a self-normalising neural network. , 2018, , .		0
95	Automatic 3D aortic annulus sizing by computed tomography in the planning of transcatheter aortic valve implantation. Journal of Cardiovascular Computed Tomography, 2017, 11, 25-32.	1.3	24
96	Feasibility of Multiplane-Transmit Beamforming for Real-Time Volumetric Cardiac Imaging: A Simulation Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 648-659.	3.0	15
97	Novel Solutions Applied in Transseptal Puncture: A Systematic Review. Journal of Medical Devices, Transactions of the ASME, 2017, 11, .	0.7	8
98	Fast left ventricle tracking using localized anatomical affine optical flow. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2871.	2.1	20
99	Temperature monitoring by channel data delays: Feasibility based on estimated delays magnitude for cardiac ablation. Ultrasonics, 2017, 77, 32-37.	3.9	0
100	Extension of the angular spectrum method to model the pressure field of a cylindrically curved array transducer. Journal of the Acoustical Society of America, 2017, 141, EL262-EL266.	1.1	3
101	Real-time catheter localization and visualization using three-dimensional echocardiography. Proceedings of SPIE, 2017, , .	0.8	2
102	Longitudinal Changes in LV Structure and Diastolic Function in Relation to Arterial Properties in GeneralÂPopulation. JACC: Cardiovascular Imaging, 2017, 10, 1307-1316.	5.3	35
103	Machine learning of the spatio-temporal characteristics of echocardiographic deformation curves for infarct classification. International Journal of Cardiovascular Imaging, 2017, 33, 1159-1167.	1.5	30
104	Left Ventricular Myocardial Segmentation in 3-D Ultrasound Recordings: Effect of Different Endocardial and Epicardial Coupling Strategies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 525-536.	3.0	19
105	Development of a patientâ€specific atrial phantom model for planning and training of interâ€atrial interventions. Medical Physics, 2017, 44, 5638-5649.	3.0	21
106	Standardized Delineation of Endocardial Boundaries in Three-Dimensional Left VentricularÂEchocardiograms. Journal of the American Society of Echocardiography, 2017, 30, 1059-1069.	2.8	10
107	A competitive strategy for atrial and aortic tract segmentation based on deformable models. Medical Image Analysis, 2017, 42, 102-116.	11.6	16
108	heartBEATS: A hybrid energy approach for real-time B-spline explicit active tracking of surfaces. Computerized Medical Imaging and Graphics, 2017, 62, 26-33.	5.8	2

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109	The challenges of measuring in vivo knee collateral ligament strains using ultrasound. Journal of Biomechanics, 2017, 61, 258-262.	2.1	10
110	Fast and Fully Automatic Left Ventricular Segmentation and Tracking in Echocardiography Using Shape-Based B-Spline Explicit Active Surfaces. IEEE Transactions on Medical Imaging, 2017, 36, 2287-2296.	8.9	56
111	Volumetric imaging of fast mechanical waves in the heart using a clinical ultrasound system. , 2017, , .		3
112	Impact of beamforming strategies and regularisation on ultrasound displacement estimation using RF-based image registration. , 2017, , .		0
113	Left ventricular function in relation to chronic residential air pollution in a general population. European Journal of Preventive Cardiology, 2017, 24, 1416-1428.	1.8	35
114	Evaluation of the Transverse Oscillation Technique for Cardiac Phased Array Imaging: A Theoretical Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 320-334.	3.0	4
115	Left atrial volumetric assessment using a novel automated framework for 3D echocardiography: a multi-centre analysis. European Heart Journal Cardiovascular Imaging, 2017, 18, 1008-1015.	1.2	5
116	Diverging wave compounding: Direct comparison of two popular approaches. , 2017, , .		2
117	Notice of Removal: Assessment of myocardial viability using speckle tracking echocardiography at high spatial resolution. , 2017, , .		2
118	Motion compensation and sequence optimization for 3D diverging wave compounding: A simulation study. Proceedings of Meetings on Acoustics, 2017, , .	0.3	0
119	Diverging wave compounding: Direct comparison of two popular approaches. , 2017, , .		2
120	Notice of Removal: Fast and fully automatic 3D left ventricular segmentation using shape-based B-spline explicit active surfaces. , 2017, , .		1
121	Notice of Removal: RF-NRIR for motion estimation in fast cardiac anatomical imaging. , 2017, , .		0
122	High frame rate, wide-angle tissue Doppler imaging in real-time. , 2017, , .		1
123	Real-time anatomical imaging of the heart on an experimental ultrasound system. , 2017, , .		0
124	High frame rate, wide-angle Tissue Doppler Imaging in real-time. , 2017, , .		0
125	Notice of Removal: Machine learning to understand anthropomorphic modulators of spatiotemporal myocardial mechanics. , 2017, , .		1
126	Automatic Definition of an Anatomic Field of View for Volumetric Cardiac Motion Estimation at High Temporal Resolution. Applied Sciences (Switzerland), 2017, 7, 752.	2.5	2

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127	Evaluation of tissue displacement and regional strain in the Achilles tendon using quantitative high-frequency ultrasound. PLoS ONE, 2017, 12, e0181364.	2.5	36
128	Notice of Removal: An MRI-compatible mock model for intra-cardiac flow imaging. , 2017, , .		0
129	Notice of Removal: Motion correction for multi-plane-transmit beamforming: A simulation study. , 2017, , .		0
130	Velocity resolution improvement for high temporal resolution ultrasonic transducer. , 2017, , .		0
131	Notice of Removal: Phase coherence beamforming to enhance myocardial speckle tracking performance. , 2017, , .		0
132	Volumetric imaging of fast mechanical waves in the heart using a clinical ultrasound system: A feasibility study. , 2017, , .		1
133	Low complexity adaptive beamforming with multi line transmit cardiac ultrasound. , 2017, , .		0
134	Velocity resolution improvement for high temporal resolution ultrasonic transducer. , 2017, , .		0
135	Notice of Removal: Comparison of motion corrected multi-plane-transmit beamforming and 3D diverging wave compounding: A simulation study. , 2017, , .		0
136	Real-time anatomical imaging of the heart on an experimental ultrasound system. , 2017, , .		0
137	P4928Doppler indexes of left ventricular diastolic function in relation to hemodynamic load components in a general population. European Heart Journal, 2017, 38, .	2.2	0
138	Fast myocardial strain estimation from 3D ultrasound through elastic image registration with analytic regularization. , 2016, , .		3
139	Dense motion field estimation from myocardial boundary displacements. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02758.	2.1	6
140	Automatic short axis orientation of the left ventricle in 3D ultrasound recordings. , 2016, , .		4
141	Semi-automatic outlining of levator hiatus. Ultrasound in Obstetrics and Gynecology, 2016, 48, 98-105.	1.7	16
142	Doppler indexes of left ventricular systolic and diastolic function in relation to the arterial stiffness in a general population. Journal of Hypertension, 2016, 34, 762-771.	0.5	28
143	Diverging Wave Volumetric Imaging Using Subaperture Beamforming. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 2114-2124.	3.0	42
144	Delay and Standard Deviation Beamforming to Enhance Specular Reflections in Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 2057-2068.	3.0	33

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145	2D RF-based non-rigid image registration for cardiac motion estimation: Comparison against block matching. , 2016, , .		3
146	Handling missing strain (rate) curves using K-nearest neighbor imputation. , 2016, , .		4
147	A spectroscopic study of the chromatic properties of GafChromicâ„¢EBT3 films. Medical Physics, 2016, 43, 1156-1166.	3.0	29
148	In-vivo validation of a new clinical tool to quantify three-dimensional myocardial strain using ultrasound. International Journal of Cardiovascular Imaging, 2016, 32, 1707-1714.	1.5	6
149	3D tendon strain estimation on high-frequency 3D ultrasound images a simulation and phantom study. , 2016, , .		2
150	Aortic Valve Tract Segmentation From 3D-TEE Using Shape-Based B-Spline Explicit Active Surfaces. IEEE Transactions on Medical Imaging, 2016, 35, 2015-2025.	8.9	16
151	A Comparison of the Performance of Different Multiline Transmit Setups for Fast Volumetric Cardiac Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 2082-2091.	3.0	19
152	Kidney segmentation in 3D CT images using B-Spline Explicit Active Surfaces. , 2016, , .		3
153	Additive Prognostic Value of Left Ventricular Systolic Dysfunction in a Population-Based Cohort. Circulation: Cardiovascular Imaging, 2016, 9, .	2.6	73
154	Automatic left-atrial segmentation from cardiac 3D ultrasound: a dual-chamber model-based approach. Proceedings of SPIE, 2016, , .	0.8	1
155	Spatiotemporal registration of multiple three-dimensional echocardiographic recordings for enhanced field of view imaging. Journal of Medical Imaging, 2016, 3, 1.	1.5	3
156	High frame rate 3D tissue velocity imaging using sub-aperture beamforming: A pilot study in vivo. , 2016, , .		2
157	Multi transmit beams for fast cardiac imaging towards clinical routine. , 2016, , .		8
158	Anatomical view stabilization of multiple 3D transesophageal echocardiograms. , 2016, , .		0
159	Image-based temporal alignment of echocardiographic sequences. Proceedings of SPIE, 2016, , .	0.8	3
160	A Remedy for the Achillesâ€™ Heel ofÂEchocardiography?. JACC: Cardiovascular Imaging, 2016, 9, 1031-1033.	5.3	0
161	COmplex coronary Bifurcation lesions: RAndomized comparison of a strategy using a dedicated self-expanding biolimus-eluting stent versus a culotte strategy using everolimus-eluting stents: primary results of the COBRA trial. EuroIntervention, 2016, 11, 1457-1467.	3.2	14
162	High variability in strain estimation errors when using a commercial ultrasound speckle tracking algorithm on tendon tissue. Acta Radiologica, 2016, 57, 1223-1229.	1.1	6

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163	Wide-Angle Tissue Doppler Imaging at High Frame Rate Using Multi-Line Transmit Beamforming: An Experimental Validation In Vivo. IEEE Transactions on Medical Imaging, 2016, 35, 521-528.	8.9	33
164	Standardized Evaluation System for Left Ventricular Segmentation Algorithms in 3D Echocardiography. IEEE Transactions on Medical Imaging, 2016, 35, 967-977.	8.9	82
165	Anatomical Image Registration Using Volume Conservation to Assess Cardiac Deformation From 3D Ultrasound Recordings. IEEE Transactions on Medical Imaging, 2016, 35, 501-511.	8.9	24
166	Integration of Multi-Plane Tissue Doppler and B-Mode Echocardiographic Images for Left Ventricular Motion Estimation. IEEE Transactions on Medical Imaging, 2016, 35, 89-97.	8.9	3
167	Multi-centre validation of an automatic algorithm for fast 4D myocardial segmentation in cine CMR datasets. European Heart Journal Cardiovascular Imaging, 2016, 17, 1118-1127.	1.2	14
168	Two-dimensional speckle tracking echocardiography: standardization efforts based on synthetic ultrasound data. European Heart Journal Cardiovascular Imaging, 2016, 17, 693-701.	1.2	63
169	Cardiovascular magnetic resonance myocardial feature tracking using a non-rigid, elastic image registration algorithm: assessment of variability in a real-life clinical setting. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 24.	3.3	71
170	STACCATO (Assessment of Stent sTrut Apposition and Coverage in Coronary ArTeries with Optical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 EuroIntervention, 2016, 11, e1619-e1626.	3.2	19
171	Automatic Detection of Myocardial Infarction Through a Global Shape Feature Based on Local Statistical Modeling. Lecture Notes in Computer Science, 2016, , 208-216.	1.3	1
172	Tracking quality in plane-wave versus conventional cardiac ultrasound: A preliminary evaluation in-silico based on a state-of-the-art simulation pipeline. , 2015, , .		3
173	An automatic method for determining the anatomical relevant space for fast volumetric cardiac imaging. , 2015, , .		0
174	Continuous ultrasound speckle tracking with Gaussian mixtures. , 2015, 2015, 129-32.		2
175	Association Between Myocardial Mechanics and Ischemic LV Remodeling. JACC: Cardiovascular Imaging, 2015, 8, 1430-1443.	5.3	37
176	Improving the robustness of interventional 4D ultrasound segmentation through the use of personalized prior shape models. Proceedings of SPIE, 2015, , .	0.8	1
177	Towards sub-Nyquist tissue Doppler imaging using non-uniformly spaced stream of pulses. , 2015, , .		2
178	A simulation frame work to optimize volumetric cardiac imaging on a multiplexed system. , 2015, , .		0
179	HD-PULSE: High channel Density Programmable ULtrasound System based on consumer Electronics. , 2015, , .		16
180	Generation of ultra-realistic synthetic echocardiographic sequences to facilitate standardization of deformation imaging. , 2015, , .		6

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181	The role of the image phase in cardiac strain imaging. , 2015, , .		0
182	Automatic detection of ischemic myocardium by spatio-temporal analysis of echocardiographic strain and strain rate curves. , 2015, , .		2
183	A Pipeline for the Generation of Realistic 3D Synthetic Echocardiographic Sequences: Methodology and Open-Access Database. IEEE Transactions on Medical Imaging, 2015, 34, 1436-1451.	8.9	91
184	Definitions for a Common Standard for 2D Speckle Tracking Echocardiography: Consensus Document of the EACVI/ASE/Industry Task Force to Standardize Deformation Imaging. Journal of the American Society of Echocardiography, 2015, 28, 183-193.	2.8	855
185	Fast left ventricle tracking in CMR images using localized anatomical affine optical flow. , 2015, , .		3
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