

# J Alison Noble

## List of Publications by Year in descending order

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268  
papers

8,092  
citations

87723

38  
h-index

66788

78  
g-index

277  
all docs

277  
docs citations

277  
times ranked

8260  
citing authors

#	ARTICLE	IF	CITATIONS
1	Facial Anatomical Landmark Detection Using Regularized Transfer Learning With Application to Fetal Alcohol Syndrome Recognition. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1591-1601.	3.9	8
2	Function and Safety of SlowflowHD Ultrasound Doppler in Obstetrics. Ultrasound in Medicine and Biology, 2022, 48, 1157-1162.	0.7	5
3	Image quality assessment for machine learning tasks using meta-reinforcement learning. Medical Image Analysis, 2022, 78, 102427.	7.0	19
4	Exploring the utility of assistive artificial intelligence for ultrasound scanning in regional anesthesia. Regional Anesthesia and Pain Medicine, 2022, 47, 375-379.	1.1	28
5	First Trimester Video Saliency Prediction Using Clstmu-Net with Stochastic Augmentation. , 2022, , .		0
6	End-to-End First Trimester Fetal Ultrasound Video Automated CRL And NT Segmentation. , 2022, , .		2
7	Task model-specific operator skill assessment in routine fetal ultrasound scanning. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 1437-1444.	1.7	4
8	Skill Characterisation of Sonographer Gaze Patterns during Second Trimester Clinical Fetal Ultrasounds using Time Curves. , 2022, , .		0
9	Visualising Spatio-Temporal Gaze Characteristics for Exploratory Data Analysis in Clinical Fetal Ultrasound Scans. , 2022, , .		1
10	Fetal growth velocity standards from the Fetal Growth Longitudinal Study of the INTERGROWTH-21st Project. American Journal of Obstetrics and Gynecology, 2021, 224, 208.e1-208.e18.	0.7	16
11	Visual-Assisted Probe Movement Guidance for Obstetric Ultrasound Scanning Using Landmark Retrieval. Lecture Notes in Computer Science, 2021, 12908, 670-679.	1.0	7
12	Adaptable Image Quality Assessment Using Meta-Reinforcement Learning of Task Amenability. Lecture Notes in Computer Science, 2021, , 191-201.	1.0	4
13	Principled Ultrasound Data Augmentation for Classification of Standard Planes. Lecture Notes in Computer Science, 2021, , 729-741.	1.0	7
14	Multiscale Graph Convolutional Networks for Cardiac Motion Analysis. Lecture Notes in Computer Science, 2021, , 264-272.	1.0	5
15	Multimodal Continual Learning with Sonographer Eye-Tracking in Fetal Ultrasound. Lecture Notes in Computer Science, 2021, 12967, 14-24.	1.0	1
16	First Trimester Gaze Pattern Estimation Using Stochastic Augmentation Policy Search for Single Frame Saliency Prediction. Lecture Notes in Computer Science, 2021, 2021, 361-374.	1.0	2
17	International gestational age-specific centiles for blood pressure in pregnancy from the INTERGROWTH-21st Project in 8 countries: A longitudinal cohort study. PLoS Medicine, 2021, 18, e1003611.	3.9	9
18	Multi-Modal Learning from Video, Eye Tracking, and Pupillometry for Operator Skill Characterization in Clinical Fetal Ultrasound. , 2021, 2021, 1646-1649.		8

#	ARTICLE	IF	CITATIONS
19	Knowledge representation and learning of operator clinical workflow from full-length routine fetal ultrasound scan videos. <i>Medical Image Analysis</i> , 2021, 69, 101973.	7.0	27
20	A Course-Focused Dual Curriculum For Image Captioning. , 2021, 2021, 716-720.		2
21	Transforming obstetric ultrasound into data science using eye tracking, voice recording, transducer motion and ultrasound video. <i>Scientific Reports</i> , 2021, 11, 14109.	1.6	30
22	The effect of maternal body mass index on fetal ultrasound image quality. <i>American Journal of Obstetrics and Gynecology</i> , 2021, 225, 200-202.	0.7	6
23	Machine learning-based analysis of operator pupillary response to assess cognitive workload in clinical ultrasound imaging. <i>Computers in Biology and Medicine</i> , 2021, 135, 104589.	3.9	10
24	Towards Scale and Position Invariant Task Classification Using Normalised Visual Scanpaths in Clinical Fetal Ultrasound. <i>Lecture Notes in Computer Science</i> , 2021, 12967, 129-138.	1.0	3
25	A Dual Adversarial Calibration Framework for Automatic Fetal Brain Biometry. , 2021, , .		1
26	Evaluation of Gaze Tracking Calibration for Longitudinal Biomedical Imaging Studies. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 153-163.	6.2	12
27	Contrastive Fairness in Machine Learning. <i>IEEE Letters of the Computer Society</i> , 2020, 3, 38-41.	1.1	7
28	Self-Supervised Ultrasound to MRI Fetal Brain Image Synthesis. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 4413-4424.	5.4	24
29	Achieving accurate estimates of fetal gestational age and personalised predictions of fetal growth based on data from an international prospective cohort study: a population-based machine learning study. <i>The Lancet Digital Health</i> , 2020, 2, e368-e375.	5.9	40
30	Generating Controllable Ultrasound Images of the Fetal Head. , 2020, , .		4
31	Self-Supervised Representation Learning for Ultrasound Video. , 2020, 2020, 1847-1850.		23
32	Spatio-temporal visual attention modelling of standard biometry plane-finding navigation. <i>Medical Image Analysis</i> , 2020, 65, 101762.	7.0	25
33	Automatic Determination of the Fetal Cardiac Cycle in Ultrasound Using Spatio-Temporal Neural Networks. , 2020, , .		5
34	Safety Indices of Ultrasound: Adherence to Recommendations and Awareness During Routine Obstetric Ultrasound Scanning. <i>Ultraschall in Der Medizin</i> , 2020, 41, 138-145.	0.8	17
35	Hierarchical Class Incremental Learning of Anatomical Structures in Fetal Echocardiography Videos. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 1046-1058.	3.9	14
36	Late weaning and maternal closeness, associated with advanced motor and visual maturation, reinforce autonomy in healthy, 2-year-old children. <i>Scientific Reports</i> , 2020, 10, 5251.	1.6	11

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37	Incremental Learning of Fetal Heart Anatomies Using Interpretable Saliency Maps. Communications in Computer and Information Science, 2020, , 129-141.	0.4	3
38	Towards Capturing Sonographic Experience: Cognition-Inspired Ultrasound Video Saliency Prediction. Communications in Computer and Information Science, 2020, , 174-186.	0.4	4
39	Going Deeper into Cardiac Motion Analysis to Model Fine Spatio-Temporal Features. Communications in Computer and Information Science, 2020, , 294-306.	0.4	5
40	Uncertainty Estimates as Data Selection Criteria to Boost Omni-Supervised Learning. Lecture Notes in Computer Science, 2020, , 689-698.	1.0	8
41	Self-Supervised Contrastive Video-Speech Representation Learning for Ultrasound. Lecture Notes in Computer Science, 2020, 12263, 534-543.	1.0	20
42	Automatic Probe Movement Guidance for Freehand Obstetric Ultrasound. Lecture Notes in Computer Science, 2020, 12263, 583-592.	1.0	38
43	Cross-Task Representation Learning for Anatomical Landmark Detection. Lecture Notes in Computer Science, 2020, , 583-592.	1.0	5
44	Label Efficient Localization of Fetal Brain Biometry Planes in Ultrasound Through Metric Learning. Lecture Notes in Computer Science, 2020, , 126-135.	1.0	5
45	Differentiating Operator Skill During Routine Fetal Ultrasound Scanning Using Probe Motion Tracking. Lecture Notes in Computer Science, 2020, 12437, 180-188.	1.0	7
46	A Curriculum Learning Based Approach to Captioning Ultrasound Images. Lecture Notes in Computer Science, 2020, 12437, 75-84.	1.0	5
47	Calibrated Bayesian Neural Networks to Estimate Gestational Age and Its Uncertainty on Fetal Brain Ultrasound Images. Lecture Notes in Computer Science, 2020, , 13-22.	1.0	7
48	Cross-Device Cross-Anatomy Adaptation Network for Ultrasound Video Analysis. Lecture Notes in Computer Science, 2020, , 42-51.	1.0	2
49	Toward point-of-care ultrasound estimation of fetal gestational age from the trans-cerebellar diameter using CNN-based ultrasound image analysis. Journal of Medical Imaging, 2020, 7, 1.	0.8	17
50	Multi-task CNN for Structural Semantic Segmentation in 3D Fetal Brain Ultrasound. Communications in Computer and Information Science, 2020, , 164-173.	0.4	4
51	Longitudinal Image Registration with Temporal-Order and Subject-Specificity Discrimination. Lecture Notes in Computer Science, 2020, , 243-252.	1.0	5
52	Knowledge-Guided Pretext Learning for Utero-Placental Interface Detection. Lecture Notes in Computer Science, 2020, 12261, 582-593.	1.0	3
53	Simulating realistic fetal neurosonography images with appearance and growth change using cycle-consistent adversarial networks and an evaluation. Journal of Medical Imaging, 2020, 7, 057001.	0.8	2
54	Automated 3D ultrasound image analysis for first trimester assessment of fetal health. Physics in Medicine and Biology, 2019, 64, 185010.	1.6	27

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55	Multi-anatomy localization in fetal echocardiography videos. , 2019, , .		9
56	Neurodevelopmental milestones and associated behaviours are similar among healthy children across diverse geographical locations. Nature Communications, 2019, 10, 511.	5.8	33
57	Special issue on machine learning in medical imaging. Computerized Medical Imaging and Graphics, 2019, 74, 10-11.	3.5	2
58	UPI-Net: Semantic Contour Detection in Placental Ultrasound. , 2019, , .		6
59	Left Ventricular Strain Is Abnormal in Preclinical and Overt Hypertrophic Cardiomyopathy: Cardiac MR Feature Tracking. Radiology, 2019, 290, 640-648.	3.6	57
60	Ultrasound Image Representation Learning by Modeling Sonographer Visual Attention. Lecture Notes in Computer Science, 2019, 26, 592-604.	1.0	22
61	Conditional Segmentation in Lieu of Image Registration. Lecture Notes in Computer Science, 2019, , 401-409.	1.0	8
62	Captioning Ultrasound Images Automatically. Lecture Notes in Computer Science, 2019, 22, 338-346.	1.0	13
63	Efficient Ultrasound Image Analysis Models with Sonographer Gaze Assisted Distillation. Lecture Notes in Computer Science, 2019, 22, 394-402.	1.0	9
64	Anatomy-Aware Self-supervised Fetal MRI Synthesis from Unpaired Ultrasound Images. Lecture Notes in Computer Science, 2019, , 178-186.	1.0	2
65	Learning and Understanding Deep Spatio-Temporal Representations from Free-Hand Fetal Ultrasound Sweeps. Lecture Notes in Computer Science, 2019, , 299-308.	1.0	3
66	An Automated CNN-based 3D Anatomical Landmark Detection Method to Facilitate Surface-Based 3D Facial Shape Analysis. Lecture Notes in Computer Science, 2019, , 163-171.	1.0	5
67	Fully-automated alignment of 3D fetal brain ultrasound to a canonical reference space using multi-task learning. Medical Image Analysis, 2018, 46, 1-14.	7.0	72
68	Automated Visualization and Quantification of Spiral Artery Blood Flow Entering the First-Trimester Placenta, Using 3-D Power Doppler Ultrasound. Ultrasound in Medicine and Biology, 2018, 44, 522-531.	0.7	19
69	VP-Nets : Efficient automatic localization of key brain structures in 3D fetal neurosonography. Medical Image Analysis, 2018, 47, 127-139.	7.0	33
70	SiSSR: Simultaneous subdivision surface registration for the quantification of cardiac function from computed tomography in canines. Medical Image Analysis, 2018, 46, 215-228.	7.0	6
71	Microscopy cell counting and detection with fully convolutional regression networks. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 283-292.	1.3	251
72	Improving Visual Detection of Wall Motion Abnormality with Echocardiographic Image Enhancing Methods. , 2018, 2018, 1128-1131.		4

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73	Adversarial Deformation Regularization for Training Image Registration Neural Networks. Lecture Notes in Computer Science, 2018, , 774-782.	1.0	42
74	Omni-Supervised Learning: Scaling Up to Large Unlabelled Medical Datasets. Lecture Notes in Computer Science, 2018, , 572-580.	1.0	20
75	Automatic Lacunae Localization in Placental Ultrasound Images via Layer Aggregation. Lecture Notes in Computer Science, 2018, 11071, 921-929.	1.0	8
76	Î©-Net (Omega-Net): Fully automatic, multi-view cardiac MR detection, orientation, and segmentation with deep neural networks. Medical Image Analysis, 2018, 48, 95-106.	7.0	105
77	Label-driven weakly-supervised learning for multimodal deformable image registration. , 2018, , .		67
78	Quantification of cardiac bull's-eye map based on principal strain analysis for myocardial wall motion assessment in stress echocardiography. , 2018, , .		24
79	Weakly-supervised convolutional neural networks for multimodal image registration. Medical Image Analysis, 2018, 49, 1-13.	7.0	280
80	Can Dilated Convolutions Capture Ultrasound Video Dynamics?. Lecture Notes in Computer Science, 2018, , 116-124.	1.0	1
81	Multi-task SonoEyeNet: Detection of Fetal Standardized Planes Assisted by Generated Sonographer Attention Maps. Lecture Notes in Computer Science, 2018, 11070, 871-879.	1.0	24
82	Learning to segment key clinical anatomical structures in fetal neurosonography informed by a region-based descriptor. Journal of Medical Imaging, 2018, 5, 1.	0.8	7
83	Deep clinical and biological phenotyping of the preterm birth and small for gestational age syndromes: The INTERBIO-21st Newborn Case-Control Study protocol. Gates Open Research, 2018, 2, 49.	2.0	12
84	CAT & MAUS: A novel system for true dynamic motion measurement of underlying bony structures with compensation for soft tissue movement. Journal of Biomechanics, 2017, 62, 156-164.	0.9	7
85	Automated characterization of the fetal heart in ultrasound images using fully convolutional neural networks. , 2017, , .		29
86	A Deep Learning Solution for Automatic Fetal Neurosonographic Diagnostic Plane Verification Using Clinical Standard Constraints. Ultrasound in Medicine and Biology, 2017, 43, 2925-2933.	0.7	46
87	Protocol and quality assurance for carotid imaging in 100,000 participants of UK Biobank: development and assessment. European Journal of Preventive Cardiology, 2017, 24, 1799-1806.	0.8	27
88	Robust Regression of Brain Maturation from 3D Fetal Neurosonography Using CRNs. Lecture Notes in Computer Science, 2017, , 73-80.	1.0	9
89	Intraoperative Organ Motion Models with an Ensemble of Conditional Generative Adversarial Networks. Lecture Notes in Computer Science, 2017, , 368-376.	1.0	8
90	Temporal HeartNet: Towards Human-Level Automatic Analysis of Fetal Cardiac Screening Video. Lecture Notes in Computer Science, 2017, , 341-349.	1.0	18

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91	Automated annotation and quantitative description of ultrasound videos of the fetal heart. Medical Image Analysis, 2017, 36, 147-161.	7.0	41
92	Notice of Removal: Machine learning in medical ultrasound to assist clinical diagnosis. , 2017, , .		0
93	3D fractional moving blood volume (3D-FMBV) demonstrates decreased first trimester placental vascularity in pre-eclampsia but not the term, small for gestation age baby. PLoS ONE, 2017, 12, e0178675.	1.1	15
94	Feature Tracking Cardiac Magnetic Resonance via Deep Learning and Spline Optimization. Lecture Notes in Computer Science, 2017, , 183-194.	1.0	6
95	Weakly Supervised Learning of Placental Ultrasound Images with Residual Networks. Communications in Computer and Information Science, 2017, 723, 98-108.	0.4	8
96	Detection and Characterization of the Fetal Heartbeat in Free-hand Ultrasound Sweeps with Weakly-supervised Two-streams Convolutional Networks. Lecture Notes in Computer Science, 2017, , 305-313.	1.0	18
97	Freehand Ultrasound Image Simulation with Spatially-Conditioned Generative Adversarial Networks. Lecture Notes in Computer Science, 2017, , 105-115.	1.0	38
98	Localizing Cardiac Structures in Fetal Heart Ultrasound Video. Lecture Notes in Computer Science, 2017, , 247-255.	1.0	0
99	Reflections on ultrasound image analysis. Medical Image Analysis, 2016, 33, 33-37.	7.0	21
100	Heterogeneous Tissue Characterization Using Ultrasound: A Comparison of Fractal Analysis Backscatter Models on Liver Tumors. Ultrasound in Medicine and Biology, 2016, 42, 1612-1626.	0.7	17
101	Globally Optimal Registration for Describing Joint Kinematics. Procedia Computer Science, 2016, 90, 188-193.	1.2	2
102	Probabilistic sensor network design. , 2016, , .		1
103	Gestational weight gain standards based on women enrolled in the Fetal Growth Longitudinal Study of the INTERGROWTH-21 <sup>st</sup> Project: a prospective longitudinal cohort study. BMJ, The, 2016, 352, i555.	3.0	116
104	A computer-aided tracking and motion analysis with ultrasound (CAT & MAUS) system for the description of hip joint kinematics. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 1965-1977.	1.7	14
105	Right ventricular strain by MR quantitatively identifies regional dysfunction in patients with arrhythmogenic right ventricular cardiomyopathy. Journal of Magnetic Resonance Imaging, 2016, 43, 1132-1139.	1.9	40
106	Breast-lesion Segmentation Combining B-Mode and Elastography Ultrasound. Ultrasonic Imaging, 2016, 38, 209-224.	1.4	17
107	Plane Localization in 3-D Fetal Neurosonography for Longitudinal Analysis of the Developing Brain. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1120-1128.	3.9	13
108	Detecting overlapping instances in microscopy images using extremal region trees. Medical Image Analysis, 2016, 27, 3-16.	7.0	63

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109	Automated 3D Ultrasound Biometry Planes Extraction for First Trimester Fetal Assessment. Lecture Notes in Computer Science, 2016, , 196-204.	1.0	15
110	Towards quantifying the impact of cell boundary estimation on morphometric analysis for phenotypic screening. , 2015, , .		3
111	Why is Designing for Developing Countries More Challenging? Modelling the Product Design Domain for Medical Devices. Procedia Manufacturing, 2015, 3, 5693-5698.	1.9	5
112	Quantification of ultrasonic texture intra-heterogeneity via volumetric stochastic modeling for tissue characterization. Medical Image Analysis, 2015, 21, 59-71.	7.0	27
113	“3D Fusion” Echocardiography Improves 3D Left Ventricular Assessment: Comparison with 2D Contrast Echocardiography. Echocardiography, 2015, 32, 302-309.	0.3	9
114	Data-driven shape parameterization for segmentation of the right ventricle from 3D+t echocardiography. Medical Image Analysis, 2015, 21, 29-39.	7.0	21
115	Learning-based prediction of gestational age from ultrasound images of the fetal brain. Medical Image Analysis, 2015, 21, 72-86.	7.0	66
116	Feature-based fuzzy connectedness segmentation of ultrasound images with an object completion step. Medical Image Analysis, 2015, 26, 30-46.	7.0	25
117	Regional Strain Analysis with Multidetector CT in a Swine Cardiomyopathy Model: Relationship to Cardiac MR Tagging and Myocardial Fibrosis. Radiology, 2015, 277, 88-94.	3.6	25
118	A Technique for the Estimation of Fractional Moving Blood Volume by Using Three-dimensional Power Doppler US. Radiology, 2015, 274, 230-237.	3.6	30
119	Object localisation in fetal ultrasound images using invariant features. , 2015, , .		8
120	3-D Ultrasound Segmentation of the Placenta Using the Random Walker Algorithm: Reliability and Agreement. Ultrasound in Medicine and Biology, 2015, 41, 3182-3193.	0.7	36
121	Monitoring human growth and development: a continuum from the womb to the classroom. American Journal of Obstetrics and Gynecology, 2015, 213, 494-499.	0.7	39
122	Guided Random Forests for Identification of Key Fetal Anatomy and Image Categorization in Ultrasound Scans. Lecture Notes in Computer Science, 2015, , 687-694.	1.0	32
123	Quantification of the Heterogeneity of Prognostic Cellular Biomarkers in Ewing Sarcoma Using Automated Image and Random Survival Forest Analysis. PLoS ONE, 2014, 9, e107105.	1.1	15
124	An approach to the symbolic representation of brain arteriovenous malformations for management and treatment planning. Neuroradiology, 2014, 56, 195-209.	1.1	4
125	Modeling of Errors in Nakagami Imaging: Illustration on Breast Mass Characterization. Ultrasound in Medicine and Biology, 2014, 40, 917-930.	0.7	28
126	Interactive Object Counting. Lecture Notes in Computer Science, 2014, , 504-518.	1.0	85



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127	Difference of Gaussians revolved along elliptical paths for ultrasound fetal head segmentation. Computerized Medical Imaging and Graphics, 2014, 38, 774-784.	3.5	22
128	An efficient block matching and spectral shift estimation algorithm with applications to ultrasound elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 407-419.	1.7	7
129	International standards for fetal growth based on serial ultrasound measurements: the Fetal Growth Longitudinal Study of the INTERGROWTH-21st Project. Lancet, The, 2014, 384, 869-879.	6.3	656
130	Evaluation and Comparison of Current Fetal Ultrasound Image Segmentation Methods for Biometric Measurements: A Grand Challenge. IEEE Transactions on Medical Imaging, 2014, 33, 797-813.	5.4	137
131	Class-Specific Regression Random Forest for Accurate Extraction of Standard Planes from 3D Echocardiography. Lecture Notes in Computer Science, 2014, , 53-62.	1.0	10
132	Predicting Fetal Neurodevelopmental Age from Ultrasound Images. Lecture Notes in Computer Science, 2014, 17, 260-267.	1.0	3
133	A Constrained Regression Forests Solution to 3D Fetal Ultrasound Plane Localization for Longitudinal Analysis of Brain Growth and Maturation. Lecture Notes in Computer Science, 2014, , 109-116.	1.0	8
134	Searching for Structures of Interest in an Ultrasound Video Sequence. Lecture Notes in Computer Science, 2014, , 133-140.	1.0	21
135	Structured Random Forests for Myocardium Delineation in 3D Echocardiography. Lecture Notes in Computer Science, 2014, , 215-222.	1.0	9
136	Anatomical Object Detection in Fetal Ultrasound: Computer-Expert Agreements. Communications in Computer and Information Science, 2014, , 207-218.	0.4	9
137	Local Phase-Based Fast Ray Features for Automatic Left Ventricle Apical View Detection in 3D Echocardiography. Lecture Notes in Computer Science, 2014, , 119-129.	1.0	3
138	Local Phase-Based Fast Ray Features for Automatic Left Ventricle Apical View Detection in 3D Echocardiography. Lecture Notes in Computer Science, 2014, , 119-129.	1.0	2
139	Global and regional left ventricular myocardial deformation measures by magnetic resonance feature tracking in healthy volunteers: comparison with tagging and relevance of gender. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 8.	1.6	244
140	Volumetric Segmentation of Key Fetal Brain Structures in 3D Ultrasound. Lecture Notes in Computer Science, 2013, , 25-32.	1.0	9
141	Imaging techniques for cardiac strain and deformation: comparison of echocardiography, cardiac magnetic resonance and cardiac computed tomography. Expert Review of Cardiovascular Therapy, 2013, 11, 221-231.	0.6	85
142	The AutoQual ultrasound elastography method for quantitative assessment of lateral strain in post-rupture Achilles tendons. Journal of Biomechanics, 2013, 46, 2695-2700.	0.9	16
143	Delineating anatomical boundaries using the boundary fragment model. Medical Image Analysis, 2013, 17, 1123-1136.	7.0	7
144	Rapid Calculation of Standardized Placental Volume at 11 to 13 Weeks and the Prediction of Small for Gestational Age Babies. Ultrasound in Medicine and Biology, 2013, 39, 253-260.	0.7	32

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145	Registration of 3D fetal neurosonography and MRI. <i>Medical Image Analysis</i> , 2013, 17, 1137-1150.	7.0	29
146	Novel Context Rich LoCo and GloCo Features with Local and Global Shape Constraints for Segmentation of 3D Echocardiograms with Random Forests. <i>Lecture Notes in Computer Science</i> , 2013, , 59-69.	1.0	2
147	Fetal cranial segmentation in 2D ultrasound images using shape properties of pixel clusters. , 2013, , .		17
148	Evaluating Lesion Segmentation on Breast Sonography as Related to Lesion Type. <i>Journal of Ultrasound in Medicine</i> , 2013, 32, 1659-1670.	0.8	15
149	Fusion of 3D Ultrasound Images of the Fetal Femur Improves Boundary Definition and Volume Measurement. <i>Fetal Diagnosis and Therapy</i> , 2013, 34, 158-165.	0.6	0
150	Learning to Detect Partially Overlapping Instances. , 2013, , .		29
151	Oriented feature-based coupled ellipse fitting for soft tissue quantification in ultrasound images. , 2013, , .		4
152	Ultrasound image segmentation using feature asymmetry and shape guided live wire. , 2013, , .		6
153	Controlled motion strain measurement using lateral speckle tracking in Achilles tendons during healing. , 2012, , .		5
154	Towards 3D registration of fetal brain MRI and ultrasound. , 2012, , .		1
155	Regularised feature-based fuzzy connectedness segmentation of ultrasound images for fetal soft tissue quantification across gestation. , 2012, , .		2
156	Lesion segmentation and bias correction in breast ultrasound B-mode images including elastography information. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
157	Interpreting edge information for improved endocardium delineation in echocardiograms. , 2012, , .		2
158	Modified Hough transform for left ventricle myocardium segmentation in 3-D echocardiogram images. , 2012, , .		3
159	Image Analysis Using Machine Learning: Anatomical Landmarks Detection in Fetal Ultrasound Images. , 2012, , .		11
160	Image analysis of the human fetus and newborn &#x2014; Developing new clinical tools for perinatal care. , 2012, , .		1
161	Computational modelling for the embolization of brain arteriovenous malformations. <i>Medical Engineering and Physics</i> , 2012, 34, 873-881.	0.8	16
162	Integration of Local and Global Features for Anatomical Object Detection in Ultrasound. <i>Lecture Notes in Computer Science</i> , 2012, 15, 402-409.	1.0	30

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163	Effect of malaria on placental volume measured using three-dimensional ultrasound: a pilot study. <i>Malaria Journal</i> , 2012, 11, 5.	0.8	14
164	Learning to Detect Cells Using Non-overlapping Extremal Regions. <i>Lecture Notes in Computer Science</i> , 2012, 15, 348-356.	1.0	120
165	Registration of 3D Fetal Brain US and MRI. <i>Lecture Notes in Computer Science</i> , 2012, 15, 667-674.	1.0	8
166	Quality control of fetal ultrasound images: Detection of abdomen anatomical landmarks using AdaBoost. , 2011, , .		24
167	Improving the Classification Accuracy of the Classic RF Method by Intelligent Feature Selection and Weighted Voting of Trees with Application to Medical Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2011, , 184-192.	1.0	16
168	Feature extraction and wall motion classification of 2D stress echocardiography with relevance vector machines. , 2011, , .		11
169	Feature extraction and wall motion classification of 2D stress echocardiography with support vector machines. , 2011, , .		2
170	Multiview Fusion 3-d Echocardiography: Improving the Information and Quality of Real-Time 3-D Echocardiography. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 1056-1072.	0.7	40
171	Towards Treatment Planning for the Embolization of Arteriovenous Malformations of the Brain: Intranidal Hemodynamics Modeling. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 1994-2001.	2.5	11
172	The evaluation of single-view and multi-view fusion 3D echocardiography using image-driven segmentation and tracking. <i>Medical Image Analysis</i> , 2011, 15, 514-528.	7.0	47
173	Spatio-temporal (2D+T) non-rigid registration of real-time 3D echocardiography and cardiovascular MR image sequences. <i>Physics in Medicine and Biology</i> , 2011, 56, 1341-1360.	1.6	20
174	Tramline and NP windows estimation for enhanced unsupervised retinal vessel segmentation. , 2011, , .		0
175	Automated segmentation and alignment of mitotic nuclei for kymograph visualisation. , 2011, , .		9
176	Recent advances in biomedical ultrasonic imaging techniques. <i>Interface Focus</i> , 2011, 1, 475-476.	1.5	21
177	A novel local-phase method of automatic atlas construction in fetal ultrasound. , 2011, , .		2
178	Ultrasonic image analysis and image-guided interventions. <i>Interface Focus</i> , 2011, 1, 673-685.	1.5	42
179	The challenges of modern interdisciplinary medical research. <i>Nature Biotechnology</i> , 2011, 29, 1145-1148.	9.4	11
180	A fast and robust 3D ultrasound strain imaging algorithm for freehand scanning. , 2011, , .		3

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181	Surface parameterisation of the utero/placental interface using 3D power doppler ultrasound. , 2011, , .		2
182	Learning Optical Flow Propagation Strategies Using Random Forests for Fast Segmentation in Dynamic 2D & 3D Echocardiography. Lecture Notes in Computer Science, 2011, , 75-82.	1.0	3
183	Automated Selection of Standardized Planes from Ultrasound Volume. Lecture Notes in Computer Science, 2011, , 35-42.	1.0	19
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