

# J Alison Noble

## List of Publications by Citations

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

250  
papers

5,813  
citations

34  
h-index

67  
g-index

277  
ext. papers

6,911  
ext. citations

4.5  
avg, IF

6.07  
L-index

#	Paper	IF	Citations
250	Ultrasound image segmentation: a survey. <i>IEEE Transactions on Medical Imaging</i> , <b>2006</b> , 25, 987-1010	11.7	712
249	International standards for fetal growth based on serial ultrasound measurements: the Fetal Growth Longitudinal Study of the INTERGROWTH-21st Project. <i>Lancet, The</i> , <b>2014</b> , 384, 869-79	4.0	470
248	Global and regional left ventricular myocardial deformation measures by magnetic resonance feature tracking in healthy volunteers: comparison with tagging and relevance of gender. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2013</b> , 15, 8	6.9	196
247	Finding corners. <i>Image and Vision Computing</i> , <b>1988</b> , 6, 121-128	3.7	192
246	Weakly-supervised convolutional neural networks for multimodal image registration. <i>Medical Image Analysis</i> , <b>2018</b> , 49, 1-13	15.4	154
245	Microscopy cell counting and detection with fully convolutional regression networks. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , <b>2018</b> , 6, 283-292	0.9	150
244	Segmentation of ultrasound B-mode images with intensity inhomogeneity correction. <i>IEEE Transactions on Medical Imaging</i> , <b>2002</b> , 21, 48-57	11.7	124
243	A shape-space-based approach to tracking myocardial borders and quantifying regional left-ventricular function applied in echocardiography. <i>IEEE Transactions on Medical Imaging</i> , <b>2002</b> , 21, 226-38	11.7	100
242	A novel ultrasound indentation system for measuring biomechanical properties of in vivo soft tissue. <i>Ultrasound in Medicine and Biology</i> , <b>2003</b> , 29, 813-23	3.5	96
241	Intensity-based 2-D-3-D registration of cerebral angiograms. <i>IEEE Transactions on Medical Imaging</i> , <b>2003</b> , 22, 1417-26	11.7	95
240	Quantitative 3-dimensional echocardiography for accurate and rapid cardiac phenotype characterization in mice. <i>Circulation</i> , <b>2004</b> , 110, 1632-7	16.7	93
239	Evaluation and comparison of current fetal ultrasound image segmentation methods for biometric measurements: a grand challenge. <i>IEEE Transactions on Medical Imaging</i> , <b>2014</b> , 33, 797-813	11.7	91
238	Learning to detect cells using non-overlapping extremal regions. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 348-56	0.9	88
237	On the Choice of Band-Pass Quadrature Filters. <i>Journal of Mathematical Imaging and Vision</i> , <b>2004</b> , 21, 53-80	1.6	85
236	Registration of multiview real-time 3-D echocardiographic sequences. <i>IEEE Transactions on Medical Imaging</i> , <b>2007</b> , 26, 1154-65	11.7	81
235	Gestational weight gain standards based on women enrolled in the Fetal Growth Longitudinal Study of the INTERGROWTH-21st Project: a prospective longitudinal cohort study. <i>BMJ, The</i> , <b>2016</b> , 352, i555	5.9	78
234	ENet (Omega-Net): Fully automatic, multi-view cardiac MR detection, orientation, and segmentation with deep neural networks. <i>Medical Image Analysis</i> , <b>2018</b> , 48, 95-106	15.4	70

233	Imaging techniques for cardiac strain and deformation: comparison of echocardiography, cardiac magnetic resonance and cardiac computed tomography. <i>Expert Review of Cardiovascular Therapy</i> , <b>2013</b> , 11, 221-31	2.5	67
232	Random Forest Classification for Automatic Delineation of Myocardium in Real-Time 3D Echocardiography. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 447-456	0.9	67
231	MAP MRF joint segmentation and registration of medical images. <i>Medical Image Analysis</i> , <b>2003</b> , 7, 539-525.4	5.4	64
230	Evaluating a robust contour tracker on echocardiographic sequences. <i>Medical Image Analysis</i> , <b>1999</b> , 3, 63-75	15.4	54
229	Interactive Object Counting. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 504-518	0.9	51
228	Nonrigid registration of 3-D free-hand ultrasound images of the breast. <i>IEEE Transactions on Medical Imaging</i> , <b>2002</b> , 21, 405-12	11.7	51
227	Learning-based prediction of gestational age from ultrasound images of the fetal brain. <i>Medical Image Analysis</i> , <b>2015</b> , 21, 72-86	15.4	47
226	Pressure-dependent attenuation with microbubbles at low mechanical index. <i>Ultrasound in Medicine and Biology</i> , <b>2005</b> , 31, 377-84	3.5	47
225	Label-driven weakly-supervised learning for multimodal deformable image registration <b>2018</b> ,		46
224	Velocity estimation in ultrasound images: a block matching approach. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 18, 586-98	0.9	44
223	Detecting overlapping instances in microscopy images using extremal region trees. <i>Medical Image Analysis</i> , <b>2016</b> , 27, 3-16	15.4	41
222	A comparison of a similarity-based and a feature-based 2-D-3-D registration method for neurointerventional use. <i>IEEE Transactions on Medical Imaging</i> , <b>2005</b> , 24, 1058-66	11.7	40
221	Fully-automated alignment of 3D fetal brain ultrasound to a canonical reference space using multi-task learning. <i>Medical Image Analysis</i> , <b>2018</b> , 46, 1-14	15.4	39
220	The evaluation of single-view and multi-view fusion 3D echocardiography using image-driven segmentation and tracking. <i>Medical Image Analysis</i> , <b>2011</b> , 15, 514-28	15.4	39
219	Local-phase based 3D boundary detection using monogenic signal and its application to real-time 3-D echocardiography images <b>2009</b> ,		38
218	Ultrasonic image analysis and image-guided interventions. <i>Interface Focus</i> , <b>2011</b> , 1, 673-85	3.9	37
217	Vascular segmentation of phase contrast magnetic resonance angiograms based on statistical mixture modeling and local phase coherence. <i>IEEE Transactions on Medical Imaging</i> , <b>2004</b> , 23, 1490-507	11.7	35
216	A Deep Learning Solution for Automatic Fetal Neurosonographic Diagnostic Plane Verification Using Clinical Standard Constraints. <i>Ultrasound in Medicine and Biology</i> , <b>2017</b> , 43, 2925-2933	3.5	32

215	Monitoring human growth and development: a continuum from the womb to the classroom. <i>American Journal of Obstetrics and Gynecology</i> , <b>2015</b> , 213, 494-9	6.4	32
214	Automated annotation and quantitative description of ultrasound videos of the fetal heart. <i>Medical Image Analysis</i> , <b>2017</b> , 36, 147-161	15.4	32
213	3-D Ultrasound Segmentation of the Placenta Using the Random Walker Algorithm: Reliability and Agreement. <i>Ultrasound in Medicine and Biology</i> , <b>2015</b> , 41, 3182-93	3.5	31
212	Right ventricular strain by MR quantitatively identifies regional dysfunction in patients with arrhythmogenic right ventricular cardiomyopathy. <i>Journal of Magnetic Resonance Imaging</i> , <b>2016</b> , 43, 1132-9	5.6	31
211	Multiview fusion 3-D echocardiography: improving the information and quality of real-time 3-D echocardiography. <i>Ultrasound in Medicine and Biology</i> , <b>2011</b> , 37, 1056-72	3.5	31
210	Fusing speed and phase information for vascular segmentation of phase contrast MR angiograms. <i>Medical Image Analysis</i> , <b>2002</b> , 6, 109-28	15.4	31
209	3-D freehand echocardiography for automatic left ventricle reconstruction and analysis based on multiple acoustic windows. <i>IEEE Transactions on Medical Imaging</i> , <b>2002</b> , 21, 1051-8	11.7	31
208	Statistical 3D Vessel Segmentation Using a Rician Distribution. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 82-89	0.9	31
207	Rapid calculation of standardized placental volume at 11 to 13 weeks and the prediction of small for gestational age babies. <i>Ultrasound in Medicine and Biology</i> , <b>2013</b> , 39, 253-60	3.5	30
206	Left Ventricular Strain Is Abnormal in Preclinical and Overt Hypertrophic Cardiomyopathy: Cardiac MR Feature Tracking. <i>Radiology</i> , <b>2019</b> , 290, 640-648	20.5	30
205	Segmentation of cerebral vessels and aneurysms from MR angiography data. <i>Lecture Notes in Computer Science</i> , <b>1997</b> , 423-428	0.9	30
204	Adaptive multiscale ultrasound compounding using phase information. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 8, 589-96	0.9	29
203	A technique for the estimation of fractional moving blood volume by using three-dimensional power Doppler US. <i>Radiology</i> , <b>2015</b> , 274, 230-7	20.5	28
202	Investigation into the fusion of multiple 4-D fetal echocardiography images to improve image quality. <i>Ultrasound in Medicine and Biology</i> , <b>2010</b> , 36, 957-66	3.5	28
201	Registration of 3D fetal neurosonography and MRI. <i>Medical Image Analysis</i> , <b>2013</b> , 17, 1137-50	15.4	27
200	Automated 3-D echocardiography analysis compared with manual delineations and SPECT MUGA. <i>IEEE Transactions on Medical Imaging</i> , <b>2002</b> , 21, 1069-76	11.7	27
199	A Demons algorithm for image registration with locally adaptive regularization. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 12, 574-81	0.9	27
198	Adversarial Deformation Regularization for Training Image Registration Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 774-782	0.9	27

197	Real-time 3D fusion echocardiography. <i>JACC: Cardiovascular Imaging</i> , <b>2010</b> , 3, 682-90	8.4	26
196	Model-based ultrasound temperature visualization during and following HIFU exposure. <i>Ultrasound in Medicine and Biology</i> , <b>2010</b> , 36, 234-49	3.5	25
195	Real-time registration of 3D cerebral vessels to X-ray angiograms. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 1125-1133	0.9	25
194	Learning to Detect Partially Overlapping Instances <b>2013</b> ,		24
193	Regional Strain Analysis with Multidetector CT in a Swine Cardiomyopathy Model: Relationship to Cardiac MR Tagging and Myocardial Fibrosis. <i>Radiology</i> , <b>2015</b> , 277, 88-94	20.5	23
192	Integration of local and global features for anatomical object detection in ultrasound. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 402-9	0.9	23
191	Freehand Ultrasound Image Simulation with Spatially-Conditioned Generative Adversarial Networks. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 105-115	0.9	23
190	Neurodevelopmental milestones and associated behaviours are similar among healthy children across diverse geographical locations. <i>Nature Communications</i> , <b>2019</b> , 10, 511	17.4	22
189	Modeling of errors in Nakagami imaging: illustration on breast mass characterization. <i>Ultrasound in Medicine and Biology</i> , <b>2014</b> , 40, 917-30	3.5	22
188	Quantification of ultrasonic texture intra-heterogeneity via volumetric stochastic modeling for tissue characterization. <i>Medical Image Analysis</i> , <b>2015</b> , 21, 59-71	15.4	21
187	Reproducibility and accuracy of automated measurement for dynamic arterial lumen area by cardiovascular magnetic resonance. <i>International Journal of Cardiovascular Imaging</i> , <b>2009</b> , 25, 797-808	2.5	20
186	A system for simultaneously measuring contact force, ultrasound, and position information for use in force-based correction of freehand scanning. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2005</b> , 52, 1330-42	3.2	20
185	Guided Random Forests for Identification of Key Fetal Anatomy and Image Categorization in Ultrasound Scans. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 687-694	0.9	20
184	Feature-based fuzzy connectedness segmentation of ultrasound images with an object completion step. <i>Medical Image Analysis</i> , <b>2015</b> , 26, 30-46	15.4	19
183	Temporal calibration of freehand three-dimensional ultrasound using image alignment. <i>Ultrasound in Medicine and Biology</i> , <b>2005</b> , 31, 919-27	3.5	19
182	Automated characterization of the fetal heart in ultrasound images using fully convolutional neural networks <b>2017</b> ,		18
181	Data-driven shape parameterization for segmentation of the right ventricle from 3D+t echocardiography. <i>Medical Image Analysis</i> , <b>2015</b> , 21, 29-39	15.4	18
180	Multiview RT3D Echocardiography Image Fusion. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 134-143	0.9	18

179	Assisted-freehand ultrasound elasticity imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2009</b> , 56, 36-43	3.2	18
178	Computerised planning of the acquisition of cardiac MR images. <i>Computerized Medical Imaging and Graphics</i> , <b>2004</b> , 28, 411-8	7.6	18
177	Automatic Probe Movement Guidance for Freehand Obstetric Ultrasound. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 12263, 583-592	0.9	18
176	Adaptive non-rigid registration of real time 3D ultrasound to cardiovascular MR images. <i>Information Processing in Medical Imaging</i> , <b>2007</b> , 20, 50-61		18
175	Quality control of fetal ultrasound images: Detection of abdomen anatomical landmarks using AdaBoost <b>2011</b> ,		17
174	Recent advances in biomedical ultrasonic imaging techniques. <i>Interface Focus</i> , <b>2011</b> , 1, 475-476	3.9	17
173	Spatio-temporal registration of real time 3D ultrasound to cardiovascular MR sequences <b>2007</b> , 10, 343-50		17
172	Automated Selection of Standardized Planes from Ultrasound Volume. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 35-42	0.9	17
171	Quantification of cardiac bullseye map based on principal strain analysis for myocardial wall motion assessment in stress echocardiography <b>2018</b> ,		17
170	Automated 3D ultrasound image analysis for first trimester assessment of fetal health. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 185010	3.8	16
169	Fetal cranial segmentation in 2D ultrasound images using shape properties of pixel clusters <b>2013</b> ,		16
168	Spatio-temporal (2D+T) non-rigid registration of real-time 3D echocardiography and cardiovascular MR image sequences. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 1341-60	3.8	16
167	Detection and Characterization of the Fetal Heartbeat in Free-hand Ultrasound Sweeps with Weakly-supervised Two-streams Convolutional Networks. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 305-313	0.9	16
166	Protocol and quality assurance for carotid imaging in 100,000 participants of UK Biobank: development and assessment. <i>European Journal of Preventive Cardiology</i> , <b>2017</b> , 24, 1799-1806	3.9	15
165	VP-Nets : Efficient automatic localization of key brain structures in 3D fetal neurosonography. <i>Medical Image Analysis</i> , <b>2018</b> , 47, 127-139	15.4	15
164	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> , <b>2011</b> , 184-192	0.9	15
163	Local wall motion classification of stress echocardiography using a Hidden Markov Model approach <b>2008</b> ,		15
162	2D+T acoustic boundary detection in echocardiography. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 806-813		15

161	From inspection to process understanding and monitoring: a view on computer vision in manufacturing. <i>Image and Vision Computing</i> , <b>1995</b> , 13, 197-214	3.7	15
160	Multi-task SonoEyeNet: Detection of Fetal Standardized Planes Assisted by Generated Sonographer Attention Maps. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 11070, 871-879	0.9	15
159	Heterogeneous Tissue Characterization Using Ultrasound: A Comparison of Fractal Analysis Backscatter Models on Liver Tumors. <i>Ultrasound in Medicine and Biology</i> , <b>2016</b> , 42, 1612-26	3.5	15
158	Difference of Gaussians revolved along elliptical paths for ultrasound fetal head segmentation. <i>Computerized Medical Imaging and Graphics</i> , <b>2014</b> , 38, 774-84	7.6	14
157	Elasticity reconstruction from displacement and confidence measures of a multi-compressed ultrasound RF sequence. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2008</b> , 55, 319-26	3.2	14
156	Searching for Structures of Interest in an Ultrasound Video Sequence. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 133-140	0.9	14
155	Plane Localization in 3-D Fetal Neurosonography for Longitudinal Analysis of the Developing Brain. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2016</b> , 20, 1120-8	7.2	13
154	Breast-lesion Segmentation Combining B-Mode and Elastography Ultrasound. <i>Ultrasonic Imaging</i> , <b>2016</b> , 38, 209-24	1.9	13
153	The AutoQual ultrasound elastography method for quantitative assessment of lateral strain in post-rupture Achilles tendons. <i>Journal of Biomechanics</i> , <b>2013</b> , 46, 2695-700	2.9	13
152	Temporal HeartNet: Towards Human-Level Automatic Analysis of Fetal Cardiac Screening Video. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 341-349	0.9	13
151	Quantification of the heterogeneity of prognostic cellular biomarkers in ewing sarcoma using automated image and random survival forest analysis. <i>PLoS ONE</i> , <b>2014</b> , 9, e107105	3.7	13
150	Volume segmentation and reconstruction from freehand three-dimensional ultrasound data with application to ovarian follicle measurement. <i>Ultrasound in Medicine and Biology</i> , <b>2008</b> , 34, 183-95	3.5	13
149	Ultrasound Image Representation Learning by Modeling Sonographer Visual Attention. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 26, 592-604	0.9	13
148	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> , <b>2020</b> , 2, e368-e375	14.4	13
147	Omni-Supervised Learning: Scaling Up to Large Unlabelled Medical Datasets. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 572-580	0.9	13
146	Effect of malaria on placental volume measured using three-dimensional ultrasound: a pilot study. <i>Malaria Journal</i> , <b>2012</b> , 11, 5	3.6	12
145	Computational modelling for the embolization of brain arteriovenous malformations. <i>Medical Engineering and Physics</i> , <b>2012</b> , 34, 873-81	2.4	12
144	Evaluating lesion segmentation on breast sonography as related to lesion type. <i>Journal of Ultrasound in Medicine</i> , <b>2013</b> , 32, 1659-70	2.9	12

143	Revisiting overlap invariance in medical image alignment <b>2008</b> ,		12
142	Automated, nonrigid alignment of clinical myocardial contrast echocardiography image sequences: comparison with manual alignment. <i>Ultrasound in Medicine and Biology</i> , <b>2002</b> , 28, 115-23	3.5	12
141	Spatio-temporal visual attention modelling of standard biometry plane-finding navigation. <i>Medical Image Analysis</i> , <b>2020</b> , 65, 101762	15.4	11
140	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. <i>PLoS ONE</i> , <b>2017</b> , 12, e0178675	2.7	11
139	Automated Visualization and Quantification of Spiral Artery Blood Flow Entering the First-Trimester Placenta, Using 3-D Power Doppler Ultrasound. <i>Ultrasound in Medicine and Biology</i> , <b>2018</b> , 44, 522-531	3.5	11
138	Vasculature segmentation of CT liver images using graph cuts and graph-based analysis <b>2008</b> ,		11
137	Automated 3D Ultrasound Biometry Planes Extraction for First Trimester Fetal Assessment. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 196-204	0.9	11
136	Safety Indices of Ultrasound: Adherence to Recommendations and Awareness During Routine Obstetric Ultrasound Scanning. <i>Ultraschall in Der Medizin</i> , <b>2020</b> , 41, 138-145	3.8	10
135	Feature extraction and wall motion classification of 2D stress echocardiography with relevance vector machines <b>2011</b> ,		10
134	Demons algorithms for fluid and curvature registration <b>2009</b> ,		10
133	Ultrasound estimation of breast tissue biomechanical properties using a similarity-based non-linear optimization approach. <i>Journal of Strain Analysis for Engineering Design</i> , <b>2009</b> , 44, 363-374	1.3	10
132	Self-supervised Contrastive Video-Speech Representation Learning for Ultrasound. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 12263, 534-543	0.9	10
131	Phase-based registration of multi-view real-time three-dimensional echocardiographic sequences. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 9, 612-9	0.9	10
130	A computer-aided tracking and motion analysis with ultrasound (CAT & MAUS) system for the description of hip joint kinematics. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2016</b> , 11, 1965-1977	3.9	9
129	Automated segmentation and alignment of mitotic nuclei for kymograph visualisation <b>2011</b> ,		9
128	Captioning Ultrasound Images Automatically. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 22, 338-346	0.9	9
127	Class-Specific Regression Random Forest for Accurate Extraction of Standard Planes from 3D Echocardiography. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 53-62	0.9	9
126	Knowledge representation and learning of operator clinical workflow from full-length routine fetal ultrasound scan videos. <i>Medical Image Analysis</i> , <b>2021</b> , 69, 101973	15.4	9



125	Evaluation of Gaze Tracking Calibration for Longitudinal Biomedical Imaging Studies. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 153-163	10.2	9
124	MAP MRF Joint Segmentation and Registration. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 580-587	0.9	9
123	Object localisation in fetal ultrasound images using invariant features <b>2015</b> ,		8
122	Automating 3D Echocardiographic Image Analysis. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 687-696	0.9	8
121	A Constrained Regression Forests Solution to 3D Fetal Ultrasound Plane Localization for Longitudinal Analysis of Brain Growth and Maturation. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 109-116	0.9	8
120	Structured Random Forests for Myocardium Delineation in 3D Echocardiography. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 215-222	0.9	8
119	Wall motion classification of stress echocardiography based on combined rest-and-stress data. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 11, 139-46	0.9	8
118	Learning Spatio-Temporal Aggregation for Fetal Heart Analysis in Ultrasound Video. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 276-284	0.9	7
117	Self-Supervised Representation Learning for Ultrasound Video <b>2020</b> , 2020, 1847-1850	1.5	7
116	Hierarchical Class Incremental Learning of Anatomical Structures in Fetal Echocardiography Videos. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2020</b> , 24, 1046-1058	7.2	7
115	Intraoperative Organ Motion Models with an Ensemble of Conditional Generative Adversarial Networks. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 368-376	0.9	7
114	"3D fusion" echocardiography improves 3D left ventricular assessment: comparison with 2D contrast echocardiography. <i>Echocardiography</i> , <b>2015</b> , 32, 302-9	1.5	7
113	Image Analysis Using Machine Learning: Anatomical Landmarks Detection in Fetal Ultrasound Images <b>2012</b> ,		7
112	Towards treatment planning for the embolization of arteriovenous malformations of the brain: intranidal hemodynamics modeling. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2011</b> , 58, 1994-2001	5	7
111	Objective quantification of global and regional left ventricular systolic function by endocardial tracking of contrast echocardiographic sequences. <i>International Journal of Cardiology</i> , <b>2008</b> , 124, 47-56	3.2	7
110	Fourier Methods for Nonparametric Image Registration <b>2007</b> ,		7
109	Efficient Ultrasound Image Analysis Models with Sonographer Gaze Assisted Distillation. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 22, 394-402	0.9	7
108	Discrete Wavelet Diffusion for Image Denoising. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 20-28	0.9	7

107	Registration of 3D fetal brain US and MRI. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 667-74	0.9	7
106	Multi-anatomy localization in fetal echocardiography videos <b>2019</b> ,		6
105	Delineating anatomical boundaries using the boundary fragment model. <i>Medical Image Analysis</i> , <b>2013</b> , 17, 1123-36	15.4	6
104	Robust Regression of Brain Maturation from 3D Fetal Neurosonography Using CRNs. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 73-80	0.9	6
103	The challenges of modern interdisciplinary medical research. <i>Nature Biotechnology</i> , <b>2011</b> , 29, 1145-8	44.5	6
102	Slip imaging: reducing ambiguity in breast lesion assessment. <i>Ultrasound in Medicine and Biology</i> , <b>2010</b> , 36, 2027-35	3.5	6
101	Segmentation of breast cancer masses in ultrasound using radio-frequency signal derived parameters and strain estimates <b>2008</b> ,		6
100	Learning to segment key clinical anatomical structures in fetal neurosonography informed by a region-based descriptor. <i>Journal of Medical Imaging</i> , <b>2018</b> , 5, 014007	2.6	6
99	Toward point-of-care ultrasound estimation of fetal gestational age from the trans-cerebellar diameter using CNN-based ultrasound image analysis. <i>Journal of Medical Imaging</i> , <b>2020</b> , 7, 014501	2.6	6
98	Feature Tracking Cardiac Magnetic Resonance via Deep Learning and Spline Optimization. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 183-194	0.9	6
97	Self-Supervised Ultrasound to MRI Fetal Brain Image Synthesis. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 4413-4424	11.7	6
96	Transforming obstetric ultrasound into data science using eye tracking, voice recording, transducer motion and ultrasound video. <i>Scientific Reports</i> , <b>2021</b> , 11, 14109	4.9	6
95	Automatic Lacunae Localization in Placental Ultrasound Images via Layer Aggregation. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 11071, 921-929	0.9	6
94	CAT & MAUS: A novel system for true dynamic motion measurement of underlying bony structures with compensation for soft tissue movement. <i>Journal of Biomechanics</i> , <b>2017</b> , 62, 156-164	2.9	5
93	SiSSR: Simultaneous subdivision surface registration for the quantification of cardiac function from computed tomography in canines. <i>Medical Image Analysis</i> , <b>2018</b> , 46, 215-228	15.4	5
92	An efficient block matching and spectral shift estimation algorithm with applications to ultrasound elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2014</b> , 61, 407-19	3.2	5
91	Volumetric Segmentation of Key Fetal Brain Structures in 3D Ultrasound. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 25-32	0.9	5
90	Ultrasound image segmentation using feature asymmetry and shape guided live wire <b>2013</b> ,		5

89	Overlap invariance of cumulative residual entropy measures for multimodal image alignment <b>2009</b> ,		5
88	Simultaneous Lesion Segmentation and Bias Correction in Breast Ultrasound Images. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 692-699	0.9	5
87	Tissue perfusion diagnostic classification using a spatio-temporal analysis of contrast ultrasound image sequences. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 19, 222-33	0.9	5
86	Deep clinical and biological phenotyping of the preterm birth and small for gestational age syndromes: The INTERBIO-21 Newborn Case-Control Study protocol. <i>Gates Open Research</i> , <b>2018</b> , 2, 49	2.4	5
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84	Anatomical Object Detection in Fetal Ultrasound: Computer-Expert Agreements. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 207-218	0.3	5
83	Demarcation of Aneurysms Using the Seed and Cull Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 419-426	0.9	5
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81	An approach to the symbolic representation of brain arteriovenous malformations for management and treatment planning. <i>Neuroradiology</i> , <b>2014</b> , 56, 195-209	3.2	4
80	Why is Designing for Developing Countries More Challenging? Modelling the Product Design Domain for Medical Devices. <i>Procedia Manufacturing</i> , <b>2015</b> , 3, 5693-5698	1.5	4
79	A model-based displacement outlier removal algorithm for ultrasonic temperature estimation <b>2008</b> ,		4
78	Finding half boundaries and junctions in images. <i>Image and Vision Computing</i> , <b>1992</b> , 10, 219-232	3.7	4
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76	Uncertainty Estimates as Data Selection Criteria to Boost Omni-Supervised Learning. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 689-698	0.9	4
75	Differentiating Operator Skill during Routine Fetal Ultrasound Scanning using Probe Motion Tracking. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 12437, 180-188	0.9	4
74	Weakly Supervised Learning of Placental Ultrasound Images with Residual Networks. <i>Communications in Computer and Information Science</i> , <b>2017</b> , 723, 98-108	0.3	4
73	A Spatio-temporal Analysis of Contrast Ultrasound Image Sequences for Assessment of Tissue Perfusion. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 899-906	0.9	4
72	A novel explicit 2D+t cyclic shape model applied to echocardiography. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 11, 527-34	0.9	4

71	Contrastive Fairness in Machine Learning. <i>IEEE Letters of the Computer Society</i> , <b>2020</b> , 3, 38-41	0.9	4
70	UPI-Net: Semantic Contour Detection in Placental Ultrasound <b>2019</b> ,		4
69	Fetal growth velocity standards from the Fetal Growth Longitudinal Study of the INTERGROWTH-21 Project. <i>American Journal of Obstetrics and Gynecology</i> , <b>2021</b> , 224, 208.e1-208.e18	6.4	4
68	Visual-Assisted Probe Movement Guidance for Obstetric Ultrasound Scanning using Landmark Retrieval.. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 12908, 670-679	0.9	4
67	Non-invasive Measurement of Biomechanical Properties of in vivo Soft Tissues. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 208-215	0.9	4
66	Oriented feature-based coupled ellipse fitting for soft tissue quantification in ultrasound images <b>2013</b> ,		3
65	Interpreting ultrasound elastography: Image registration of breast cancer ultrasound elastography to histopathology images <b>2010</b> ,		3
64	Controlled motion strain measurement using lateral speckle tracking in Achilles tendons during healing <b>2012</b> ,		3
63	Deep clinical and biological phenotyping of the preterm birth and small for gestational age syndromes: The INTERBIO-21st Newborn Case-Control Study protocol. <i>Gates Open Research</i> , <b>2</b> , 49	2.4	3
62	A Curriculum Learning Based Approach to Captioning Ultrasound Images. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 12437, 75-84	0.9	3
61	Towards Capturing Sonographic Experience: Cognition-Inspired Ultrasound Video Saliency Prediction. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 174-186	0.3	3
60	Going Deeper into Cardiac Motion Analysis to Model Fine Spatio-Temporal Features. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 294-306	0.3	3
59	Label Efficient Localization of Fetal Brain Biometry Planes in Ultrasound Through Metric Learning. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 126-135	0.9	3
58	Fusing Speed and Phase Information for Vascular Segmentation in Phase Contrast MR Angiograms. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 166-175	0.9	3
57	Image-driven cardiac left ventricle segmentation for the evaluation of multiview fused real-time 3-dimensional echocardiography images. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 12, 893-900	0.9	3
56	Learning Optical Flow Propagation Strategies Using Random Forests for Fast Segmentation in Dynamic 2D & 3D Echocardiography. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 75-82	0.9	3
55	Modelling Cardiac Motion via Spatio-Temporal Graph Convolutional Networks to Boost the Diagnosis of Heart Conditions. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 56-65	0.9	3
54	Improving Visual Detection of Wall Motion Abnormality with Echocardiographic Image Enhancing Methods. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 1128-1131	0.9	3

53	Automatic Determination of the Fetal Cardiac Cycle in Ultrasound Using Spatio-Temporal Neural Networks <b>2020</b> ,		2
52	Towards quantifying the impact of cell boundary estimation on morphometric analysis for phenotypic screening <b>2015</b> ,		2
51	Interpreting edge information for improved endocardium delineation in echocardiograms <b>2012</b> ,		2
50	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> , <b>2013</b> , 59-69	0.9	2
49	The Effect of Attenuation Coefficient on Radiation Force Impulse Monitoring of Thermal Lesions <b>2010</b> ,		2
48	Ultrasound phase velocities in SonoVue <sup>®</sup> as a function of pressure and bubble concentration <b>2009</b> ,		2
47	FAST FLUID REGISTRATION WITH DIRICHLET BOUNDARY CONDITIONS: A TRANSFORM-BASED APPROACH <b>2007</b> ,		2
46	Automatically finding optimal working projections for the endovascular coiling of intracranial aneurysms. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 814-821	0.9	2
45	Longitudinal Image Registration with Temporal-Order and Subject-Specificity Discrimination. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 243-252	0.9	2
44	An Automated CNN-based 3D Anatomical Landmark Detection Method to Facilitate Surface-Based 3D Facial Shape Analysis. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 163-171	0.9	2
43	Incremental Learning of Fetal Heart Anatomies Using Interpretable Saliency Maps. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 129-141	0.3	2
42	Cross-Task Representation Learning for Anatomical Landmark Detection. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 583-592	0.9	2
41	Predicting fetal neurodevelopmental age from ultrasound images. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 260-7	0.9	2
40	Local Phase-Based Fast Ray Features for Automatic Left Ventricle Apical View Detection in 3D Echocardiography. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 119-129	0.9	2
39	Local Phase-Based Fast Ray Features for Automatic Left Ventricle Apical View Detection in 3D Echocardiography. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 119-129	0.9	2
38	Multi-Modal Learning from Video, Eye Tracking, and Pupillometry for Operator Skill Characterization in Clinical Fetal Ultrasound <b>2021</b> , 2021, 1646-1649	1.5	2
37	Globally Optimal Registration for Describing Joint Kinematics. <i>Procedia Computer Science</i> , <b>2016</b> , 90, 188-193		2
36	Multiscale Graph Convolutional Networks for Cardiac Motion Analysis. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 264-272	0.9	2

35	Machine learning-based analysis of operator pupillary response to assess cognitive workload in clinical ultrasound imaging. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 135, 104589	7	2
34	3D Vascular Segmentation Using MRA Statistics and Velocity Field Information in PC-MRA. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 461-467	0.9	2
33	Image quality assessment for machine learning tasks using meta-reinforcement learning.. <i>Medical Image Analysis</i> , <b>2022</b> , 78, 102427	15.4	2
32	Probabilistic sensor network design <b>2016</b> ,		1
31	Lesion segmentation and bias correction in breast ultrasound B-mode images including elastography information <b>2012</b> ,		1
30	Modified Hough transform for left ventricle myocardium segmentation in 3-D echocardiogram images <b>2012</b> ,		1
29	Image analysis of the human fetus and newborn [Developing new clinical tools for perinatal care <b>2012</b> ,		1
28	Probabilistic Models for Shapes as Continuous Curves. <i>Journal of Mathematical Imaging and Vision</i> , <b>2009</b> , 33, 39-65	1.6	1
27	A novel local-phase method of automatic atlas construction in fetal ultrasound <b>2011</b> ,		1
26	Towards 3D registration of fetal brain MRI and ultrasound <b>2012</b> ,		1
25	Spatiotemporal Bayesian cell population tracking and analysis with lineage construction <b>2008</b> ,		1
24	Image-based simulation of brain arteriovenous malformation hemodynamics <b>2008</b> ,		1
23	Cardiology Meets Image Analysis: Just an Application or Can Image Analysis Usefully Impact Cardiology Practice?. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 25-30	0.9	1
22	Anatomy-Aware Self-supervised Fetal MRI Synthesis from Unpaired Ultrasound Images. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 178-186	0.9	1
21	Learning and Understanding Deep Spatio-Temporal Representations from Free-Hand Fetal Ultrasound Sweeps. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 299-308	0.9	1
20	Can Dilated Convolutions Capture Ultrasound Video Dynamics?. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 116-124	0.9	1
19	A Course-Focused Dual Curriculum For Image Captioning <b>2021</b> , 2021, 716-720	1.5	1
18	Adaptable Image Quality Assessment Using Meta-Reinforcement Learning of Task Amenability. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 191-201	0.9	1

17	Principled Ultrasound Data Augmentation for Classification of Standard Planes. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 729-741	0.9	1
16	Multimodal Continual Learning with Sonographer Eye-Tracking in Fetal Ultrasound.. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 12967, 14-24	0.9	1
15	First Trimester Gaze Pattern Estimation Using Stochastic Augmentation Policy Search for Single Frame Saliency Prediction. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 2021, 361-374	0.9	1
14	The effect of maternal body mass index on fetal ultrasound image quality. <i>American Journal of Obstetrics and Gynecology</i> , <b>2021</b> , 225, 200-202	6.4	1
13	Towards Scale and Position Invariant Task Classification using Normalised Visual Scanpaths in Clinical Fetal Ultrasound.. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 12967, 129-138	0.9	1
12	Multi-task CNN for Structural Semantic Segmentation in 3D Fetal Brain Ultrasound. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 164-173	0.3	0
11	Knowledge-guided Pretext Learning for Utero-placental Interface Detection. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 12261, 582-593	0.9	0
10	Simulating realistic fetal neurosonography images with appearance and growth change using cycle-consistent adversarial networks and an evaluation. <i>Journal of Medical Imaging</i> , <b>2020</b> , 7, 057001	2.6	0
9	Calibrated Bayesian Neural Networks to Estimate Gestational Age and Its Uncertainty on Fetal Brain Ultrasound Images. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 13-22	0.9	0
8	International gestational age-specific centiles for blood pressure in pregnancy from the INTERGROWTH-21st Project in 8 countries: A longitudinal cohort study. <i>PLoS Medicine</i> , <b>2021</b> , 18, e1003611	11.6	0
7	Facial Anatomical Landmark Detection using Regularized Transfer Learning with Application to Fetal Alcohol Syndrome Recognition. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2021</b> , PP,	7.2	0
6	Fusion of 3D ultrasound images of the fetal femur improves boundary definition and volume measurement. <i>Fetal Diagnosis and Therapy</i> , <b>2013</b> , 34, 158-65	2.4	
5	Segmentation of cell clumps for quantitative analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 4813-6	0.9	
4	3D Freehand Echocardiography for Automatic Left Ventricle Reconstruction and Analysis Based on Multiple Acoustic Windows. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 778-785	0.9	
3	Cross-Device Cross-Anatomy Adaptation Network for Ultrasound Video Analysis. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 42-51	0.9	
2	Localizing Cardiac Structures in Fetal Heart Ultrasound Video. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 247-255	0.9	
1	A Malignant Breast Carcinoma Size Assessment Using Multiple Orientation Axial, Lateral, and Shear Elastographies: The Second Stage of a Pilot Study. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 295-304	0.9	