

J Alison Noble

List of Publications by Year in Descending Order

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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	Image quality assessment for machine learning tasks using meta-reinforcement learning.. <i>Medical Image Analysis</i> , 2022 , 78, 102427	15.4	2
249	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> , 2021 , 18, e1003611	11.6	0
248	Multi-Modal Learning from Video, Eye Tracking, and Pupillometry for Operator Skill Characterization in Clinical Fetal Ultrasound 2021 , 2021, 1646-1649	1.5	2
247	Knowledge representation and learning of operator clinical workflow from full-length routine fetal ultrasound scan videos. <i>Medical Image Analysis</i> , 2021 , 69, 101973	15.4	9
246	A Course-Focused Dual Curriculum For Image Captioning 2021 , 2021, 716-720	1.5	1
245	Transforming obstetric ultrasound into data science using eye tracking, voice recording, transducer motion and ultrasound video. <i>Scientific Reports</i> , 2021 , 11, 14109	4.9	6
244	Fetal growth velocity standards from the Fetal Growth Longitudinal Study of the INTERGROWTH-21 Project. <i>American Journal of Obstetrics and Gynecology</i> , 2021 , 224, 208.e1-208.e18	6.4	4
243	Visual-Assisted Probe Movement Guidance for Obstetric Ultrasound Scanning using Landmark Retrieval.. <i>Lecture Notes in Computer Science</i> , 2021 , 12908, 670-679	0.9	4
242	Adaptable Image Quality Assessment Using Meta-Reinforcement Learning of Task Amenability. <i>Lecture Notes in Computer Science</i> , 2021 , 191-201	0.9	1
241	Modelling Cardiac Motion via Spatio-Temporal Graph Convolutional Networks to Boost the Diagnosis of Heart Conditions. <i>Lecture Notes in Computer Science</i> , 2021 , 56-65	0.9	3
240	Principled Ultrasound Data Augmentation for Classification of Standard Planes. <i>Lecture Notes in Computer Science</i> , 2021 , 729-741	0.9	1
239	Multiscale Graph Convolutional Networks for Cardiac Motion Analysis. <i>Lecture Notes in Computer Science</i> , 2021 , 264-272	0.9	2
238	Facial Anatomical Landmark Detection using Regularized Transfer Learning with Application to Fetal Alcohol Syndrome Recognition. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , PP,	7.2	0
237	Multimodal Continual Learning with Sonographer Eye-Tracking in Fetal Ultrasound.. <i>Lecture Notes in Computer Science</i> , 2021 , 12967, 14-24	0.9	1
236	First Trimester Gaze Pattern Estimation Using Stochastic Augmentation Policy Search for Single Frame Saliency Prediction. <i>Lecture Notes in Computer Science</i> , 2021 , 2021, 361-374	0.9	1
235	The effect of maternal body mass index on fetal ultrasound image quality. <i>American Journal of Obstetrics and Gynecology</i> , 2021 , 225, 200-202	6.4	1
234	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	7	2

233	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	0.9	1
232	Self-Supervised Representation Learning for Ultrasound Video 2020 , 2020, 1847-1850	1.5	7
231	Spatio-temporal visual attention modelling of standard biometry plane-finding navigation. <i>Medical Image Analysis</i> , 2020 , 65, 101762	15.4	11
230	Automatic Determination of the Fetal Cardiac Cycle in Ultrasound Using Spatio-Temporal Neural Networks 2020 ,		2
229	Safety Indices of Ultrasound: Adherence to Recommendations and Awareness During Routine Obstetric Ultrasound Scanning. <i>Ultraschall in Der Medizin</i> , 2020 , 41, 138-145	3.8	10
228	Hierarchical Class Incremental Learning of Anatomical Structures in Fetal Echocardiography Videos. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 1046-1058	7.2	7
227	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	4.9	4
226	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> , 2020 , 7, 014501	2.6	6
225	Multi-task CNN for Structural Semantic Segmentation in 3D Fetal Brain Ultrasound. <i>Communications in Computer and Information Science</i> , 2020 , 164-173	0.3	0
224	Longitudinal Image Registration with Temporal-Order and Subject-Specificity Discrimination. <i>Lecture Notes in Computer Science</i> , 2020 , 243-252	0.9	2
223	Knowledge-guided Pretext Learning for Utero-placental Interface Detection. <i>Lecture Notes in Computer Science</i> , 2020 , 12261, 582-593	0.9	0
222	Simulating realistic fetal neurosonography images with appearance and growth change using cycle-consistent adversarial networks and an evaluation. <i>Journal of Medical Imaging</i> , 2020 , 7, 057001	2.6	0
221	A Curriculum Learning Based Approach to Captioning Ultrasound Images. <i>Lecture Notes in Computer Science</i> , 2020 , 12437, 75-84	0.9	3
220	Calibrated Bayesian Neural Networks to Estimate Gestational Age and Its Uncertainty on Fetal Brain Ultrasound Images. <i>Lecture Notes in Computer Science</i> , 2020 , 13-22	0.9	0
219	Cross-Device Cross-Anatomy Adaptation Network for Ultrasound Video Analysis. <i>Lecture Notes in Computer Science</i> , 2020 , 42-51	0.9	
218	Incremental Learning of Fetal Heart Anatomies Using Interpretable Saliency Maps. <i>Communications in Computer and Information Science</i> , 2020 , 129-141	0.3	2
217	Towards Capturing Sonographic Experience: Cognition-Inspired Ultrasound Video Saliency Prediction. <i>Communications in Computer and Information Science</i> , 2020 , 174-186	0.3	3
216	Going Deeper into Cardiac Motion Analysis to Model Fine Spatio-Temporal Features. <i>Communications in Computer and Information Science</i> , 2020 , 294-306	0.3	3

215	Uncertainty Estimates as Data Selection Criteria to Boost Omni-Supervised Learning. <i>Lecture Notes in Computer Science</i> , 2020 , 689-698	0.9	4
214	Self-supervised Contrastive Video-Speech Representation Learning for Ultrasound. <i>Lecture Notes in Computer Science</i> , 2020 , 12263, 534-543	0.9	10
213	Automatic Probe Movement Guidance for Freehand Obstetric Ultrasound. <i>Lecture Notes in Computer Science</i> , 2020 , 12263, 583-592	0.9	18
212	Cross-Task Representation Learning for Anatomical Landmark Detection. <i>Lecture Notes in Computer Science</i> , 2020 , 583-592	0.9	2
211	Label Efficient Localization of Fetal Brain Biometry Planes in Ultrasound Through Metric Learning. <i>Lecture Notes in Computer Science</i> , 2020 , 126-135	0.9	3
210	Differentiating Operator Skill during Routine Fetal Ultrasound Scanning using Probe Motion Tracking. <i>Lecture Notes in Computer Science</i> , 2020 , 12437, 180-188	0.9	4
209	Contrastive Fairness in Machine Learning. <i>IEEE Letters of the Computer Society</i> , 2020 , 3, 38-41	0.9	4
208	Self-Supervised Ultrasound to MRI Fetal Brain Image Synthesis. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 4413-4424	11.7	6
207	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	14.4	13
206	Evaluation of Gaze Tracking Calibration for Longitudinal Biomedical Imaging Studies. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 153-163	10.2	9
205	Neurodevelopmental milestones and associated behaviours are similar among healthy children across diverse geographical locations. <i>Nature Communications</i> , 2019 , 10, 511	17.4	22
204	Automated 3D ultrasound image analysis for first trimester assessment of fetal health. <i>Physics in Medicine and Biology</i> , 2019 , 64, 185010	3.8	16
203	Multi-anatomy localization in fetal echocardiography videos 2019 ,		6
202	Anatomy-Aware Self-supervised Fetal MRI Synthesis from Unpaired Ultrasound Images. <i>Lecture Notes in Computer Science</i> , 2019 , 178-186	0.9	1
201	Learning and Understanding Deep Spatio-Temporal Representations from Free-Hand Fetal Ultrasound Sweeps. <i>Lecture Notes in Computer Science</i> , 2019 , 299-308	0.9	1
200	An Automated CNN-based 3D Anatomical Landmark Detection Method to Facilitate Surface-Based 3D Facial Shape Analysis. <i>Lecture Notes in Computer Science</i> , 2019 , 163-171	0.9	2
199	Ultrasound Image Representation Learning by Modeling Sonographer Visual Attention. <i>Lecture Notes in Computer Science</i> , 2019 , 26, 592-604	0.9	13
198	Conditional Segmentation in Lieu of Image Registration. <i>Lecture Notes in Computer Science</i> , 2019 , 401-409	0.9	5

197	Captioning Ultrasound Images Automatically. <i>Lecture Notes in Computer Science</i> , 2019 , 22, 338-346	0.9	9
196	Efficient Ultrasound Image Analysis Models with Sonographer Gaze Assisted Distillation. <i>Lecture Notes in Computer Science</i> , 2019 , 22, 394-402	0.9	7
195	UPI-Net: Semantic Contour Detection in Placental Ultrasound 2019 ,		4
194	Left Ventricular Strain Is Abnormal in Preclinical and Overt Hypertrophic Cardiomyopathy: Cardiac MR Feature Tracking. <i>Radiology</i> , 2019 , 290, 640-648	20.5	30
193	Fully-automated alignment of 3D fetal brain ultrasound to a canonical reference space using multi-task learning. <i>Medical Image Analysis</i> , 2018 , 46, 1-14	15.4	39
192	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> , 2018 , 44, 522-531	3.5	11
191	VP-Nets : Efficient automatic localization of key brain structures in 3D fetal neurosonography. <i>Medical Image Analysis</i> , 2018 , 47, 127-139	15.4	15
190	SiSSR: Simultaneous subdivision surface registration for the quantification of cardiac function from computed tomography in canines. <i>Medical Image Analysis</i> , 2018 , 46, 215-228	15.4	5
189	Microscopy cell counting and detection with fully convolutional regression networks. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2018 , 6, 283-292	0.9	150
188	Weakly-supervised convolutional neural networks for multimodal image registration. <i>Medical Image Analysis</i> , 2018 , 49, 1-13	15.4	154
187	Learning to segment key clinical anatomical structures in fetal neurosonography informed by a region-based descriptor. <i>Journal of Medical Imaging</i> , 2018 , 5, 014007	2.6	6
186	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> , 2018 , 2, 49	2.4	5
185	Can Dilated Convolutions Capture Ultrasound Video Dynamics?. <i>Lecture Notes in Computer Science</i> , 2018 , 116-124	0.9	1
184	Multi-task SonoEyeNet: Detection of Fetal Standardized Planes Assisted by Generated Sonographer Attention Maps. <i>Lecture Notes in Computer Science</i> , 2018 , 11070, 871-879	0.9	15
183	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> , 2018 , 2018, 1128-1131	0.9	3
182	Adversarial Deformation Regularization for Training Image Registration Neural Networks. <i>Lecture Notes in Computer Science</i> , 2018 , 774-782	0.9	27
181	Omni-Supervised Learning: Scaling Up to Large Unlabelled Medical Datasets. <i>Lecture Notes in Computer Science</i> , 2018 , 572-580	0.9	13
180	Automatic Lacunae Localization in Placental Ultrasound Images via Layer Aggregation. <i>Lecture Notes in Computer Science</i> , 2018 , 11071, 921-929	0.9	6

179	ENet (Omega-Net): Fully automatic, multi-view cardiac MR detection, orientation, and segmentation with deep neural networks. <i>Medical Image Analysis</i> , 2018 , 48, 95-106	15.4	70
178	Label-driven weakly-supervised learning for multimodal deformable image registration 2018 ,		46
177	Quantification of cardiac bullseye map based on principal strain analysis for myocardial wall motion assessment in stress echocardiography 2018 ,		17
176	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> , 2017 , 62, 156-164	2.9	5
175	Automated characterization of the fetal heart in ultrasound images using fully convolutional neural networks 2017 ,		18
174	A Deep Learning Solution for Automatic Fetal Neurosonographic Diagnostic Plane Verification Using Clinical Standard Constraints. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 2925-2933	3.5	32
173	Protocol and quality assurance for carotid imaging in 100,000 participants of UK Biobank: development and assessment. <i>European Journal of Preventive Cardiology</i> , 2017 , 24, 1799-1806	3.9	15
172	Learning Spatio-Temporal Aggregation for Fetal Heart Analysis in Ultrasound Video. <i>Lecture Notes in Computer Science</i> , 2017 , 276-284	0.9	7
171	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> , 2017 , 12, e0178675	2.7	11
170	Robust Regression of Brain Maturation from 3D Fetal Neurosonography Using CRNs. <i>Lecture Notes in Computer Science</i> , 2017 , 73-80	0.9	6
169	Intraoperative Organ Motion Models with an Ensemble of Conditional Generative Adversarial Networks. <i>Lecture Notes in Computer Science</i> , 2017 , 368-376	0.9	7
168	Temporal HeartNet: Towards Human-Level Automatic Analysis of Fetal Cardiac Screening Video. <i>Lecture Notes in Computer Science</i> , 2017 , 341-349	0.9	13
167	Automated annotation and quantitative description of ultrasound videos of the fetal heart. <i>Medical Image Analysis</i> , 2017 , 36, 147-161	15.4	32
166	Feature Tracking Cardiac Magnetic Resonance via Deep Learning and Spline Optimization. <i>Lecture Notes in Computer Science</i> , 2017 , 183-194	0.9	6
165	Weakly Supervised Learning of Placental Ultrasound Images with Residual Networks. <i>Communications in Computer and Information Science</i> , 2017 , 723, 98-108	0.3	4
164	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> , 2017 , 305-313	0.9	16
163	Freehand Ultrasound Image Simulation with Spatially-Conditioned Generative Adversarial Networks. <i>Lecture Notes in Computer Science</i> , 2017 , 105-115	0.9	23
162	Localizing Cardiac Structures in Fetal Heart Ultrasound Video. <i>Lecture Notes in Computer Science</i> , 2017 , 247-255	0.9	

161	Plane Localization in 3-D Fetal Neurosonography for Longitudinal Analysis of the Developing Brain. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016 , 20, 1120-8	7.2	13
160	Detecting overlapping instances in microscopy images using extremal region trees. <i>Medical Image Analysis</i> , 2016 , 27, 3-16	15.4	41
159	Probabilistic sensor network design 2016 ,		1
158	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> , 2016 , 352, i555	5.9	78
157	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> , 2016 , 11, 1965-1977	3.9	9
156	Right ventricular strain by MR quantitatively identifies regional dysfunction in patients with arrhythmogenic right ventricular cardiomyopathy. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 43, 1132-9	5.6	31
155	Breast-lesion Segmentation Combining B-Mode and Elastography Ultrasound. <i>Ultrasonic Imaging</i> , 2016 , 38, 209-24	1.9	13
154	Automated 3D Ultrasound Biometry Planes Extraction for First Trimester Fetal Assessment. <i>Lecture Notes in Computer Science</i> , 2016 , 196-204	0.9	11
153	Heterogeneous Tissue Characterization Using Ultrasound: A Comparison of Fractal Analysis Backscatter Models on Liver Tumors. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 1612-26	3.5	15
152	Globally Optimal Registration for Describing Joint Kinematics. <i>Procedia Computer Science</i> , 2016 , 90, 188-193	1.3	2
151	Feature-based fuzzy connectedness segmentation of ultrasound images with an object completion step. <i>Medical Image Analysis</i> , 2015 , 26, 30-46	15.4	19
150	Regional Strain Analysis with Multidetector CT in a Swine Cardiomyopathy Model: Relationship to Cardiac MR Tagging and Myocardial Fibrosis. <i>Radiology</i> , 2015 , 277, 88-94	20.5	23
149	A technique for the estimation of fractional moving blood volume by using three-dimensional power Doppler US. <i>Radiology</i> , 2015 , 274, 230-7	20.5	28
148	Object localisation in fetal ultrasound images using invariant features 2015 ,		8
147	3-D Ultrasound Segmentation of the Placenta Using the Random Walker Algorithm: Reliability and Agreement. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 3182-93	3.5	31
146	Monitoring human growth and development: a continuum from the womb to the classroom. <i>American Journal of Obstetrics and Gynecology</i> , 2015 , 213, 494-9	6.4	32
145	Towards quantifying the impact of cell boundary estimation on morphometric analysis for phenotypic screening 2015 ,		2
144	Why is Designing for Developing Countries More Challenging? Modelling the Product Design Domain for Medical Devices. <i>Procedia Manufacturing</i> , 2015 , 3, 5693-5698	1.5	4

143	Quantification of ultrasonic texture intra-heterogeneity via volumetric stochastic modeling for tissue characterization. <i>Medical Image Analysis</i> , 2015 , 21, 59-71	15.4	21
142	"3D fusion" echocardiography improves 3D left ventricular assessment: comparison with 2D contrast echocardiography. <i>Echocardiography</i> , 2015 , 32, 302-9	1.5	7
141	Data-driven shape parameterization for segmentation of the right ventricle from 3D+t echocardiography. <i>Medical Image Analysis</i> , 2015 , 21, 29-39	15.4	18
140	Learning-based prediction of gestational age from ultrasound images of the fetal brain. <i>Medical Image Analysis</i> , 2015 , 21, 72-86	15.4	47
139	Guided Random Forests for Identification of Key Fetal Anatomy and Image Categorization in Ultrasound Scans. <i>Lecture Notes in Computer Science</i> , 2015 , 687-694	0.9	20
138	An approach to the symbolic representation of brain arteriovenous malformations for management and treatment planning. <i>Neuroradiology</i> , 2014 , 56, 195-209	3.2	4
137	Modeling of errors in Nakagami imaging: illustration on breast mass characterization. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 917-30	3.5	22
136	Interactive Object Counting. <i>Lecture Notes in Computer Science</i> , 2014 , 504-518	0.9	51
135	Difference of Gaussians revolved along elliptical paths for ultrasound fetal head segmentation. <i>Computerized Medical Imaging and Graphics</i> , 2014 , 38, 774-84	7.6	14
134	An efficient block matching and spectral shift estimation algorithm with applications to ultrasound elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 407-19	3.2	5
133	International standards for fetal growth based on serial ultrasound measurements: the Fetal Growth Longitudinal Study of the INTERGROWTH-21st Project. <i>Lancet, The</i> , 2014 , 384, 869-79	4.0	47.0
132	Evaluation and comparison of current fetal ultrasound image segmentation methods for biometric measurements: a grand challenge. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 797-813	11.7	91
131	Quantification of the heterogeneity of prognostic cellular biomarkers in ewing sarcoma using automated image and random survival forest analysis. <i>PLoS ONE</i> , 2014 , 9, e107105	3.7	13
130	Class-Specific Regression Random Forest for Accurate Extraction of Standard Planes from 3D Echocardiography. <i>Lecture Notes in Computer Science</i> , 2014 , 53-62	0.9	9
129	Predicting fetal neurodevelopmental age from ultrasound images. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 260-7	0.9	2
128	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> , 2014 , 109-116	0.9	8
127	Searching for Structures of Interest in an Ultrasound Video Sequence. <i>Lecture Notes in Computer Science</i> , 2014 , 133-140	0.9	14
126	Structured Random Forests for Myocardium Delineation in 3D Echocardiography. <i>Lecture Notes in Computer Science</i> , 2014 , 215-222	0.9	8

125	Anatomical Object Detection in Fetal Ultrasound: Computer-Expert Agreements. <i>Communications in Computer and Information Science</i> , 2014 , 207-218	0.3	5
124	Local Phase-Based Fast Ray Features for Automatic Left Ventricle Apical View Detection in 3D Echocardiography. <i>Lecture Notes in Computer Science</i> , 2014 , 119-129	0.9	2
123	Local Phase-Based Fast Ray Features for Automatic Left Ventricle Apical View Detection in 3D Echocardiography. <i>Lecture Notes in Computer Science</i> , 2014 , 119-129	0.9	2
122	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> , 2013 , 15, 8	6.9	196
121	Volumetric Segmentation of Key Fetal Brain Structures in 3D Ultrasound. <i>Lecture Notes in Computer Science</i> , 2013 , 25-32	0.9	5
120	Imaging techniques for cardiac strain and deformation: comparison of echocardiography, cardiac magnetic resonance and cardiac computed tomography. <i>Expert Review of Cardiovascular Therapy</i> , 2013 , 11, 221-31	2.5	67
119	The AutoQual ultrasound elastography method for quantitative assessment of lateral strain in post-rupture Achilles tendons. <i>Journal of Biomechanics</i> , 2013 , 46, 2695-700	2.9	13
118	Delineating anatomical boundaries using the boundary fragment model. <i>Medical Image Analysis</i> , 2013 , 17, 1123-36	15.4	6
117	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> , 2013 , 39, 253-60	3.5	30
116	Registration of 3D fetal neurosonography and MRI. <i>Medical Image Analysis</i> , 2013 , 17, 1137-50	15.4	27
115	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	0.9	2
114	Fetal cranial segmentation in 2D ultrasound images using shape properties of pixel clusters 2013 ,		16
113	Evaluating lesion segmentation on breast sonography as related to lesion type. <i>Journal of Ultrasound in Medicine</i> , 2013 , 32, 1659-70	2.9	12
112	Fusion of 3D ultrasound images of the fetal femur improves boundary definition and volume measurement. <i>Fetal Diagnosis and Therapy</i> , 2013 , 34, 158-65	2.4	
111	Learning to Detect Partially Overlapping Instances 2013 ,		24
110	Oriented feature-based coupled ellipse fitting for soft tissue quantification in ultrasound images 2013 ,		3
109	Ultrasound image segmentation using feature asymmetry and shape guided live wire 2013 ,		5
108	Effect of malaria on placental volume measured using three-dimensional ultrasound: a pilot study. <i>Malaria Journal</i> , 2012 , 11, 5	3.6	12

107	Lesion segmentation and bias correction in breast ultrasound B-mode images including elastography information 2012 ,		1
106	Interpreting edge information for improved endocardium delineation in echocardiograms 2012 ,		2
105	Modified Hough transform for left ventricle myocardium segmentation in 3-D echocardiogram images 2012 ,		1
104	Image Analysis Using Machine Learning: Anatomical Landmarks Detection in Fetal Ultrasound Images 2012 ,		7
103	Image analysis of the human fetus and newborn Developing new clinical tools for perinatal care 2012 ,		1
102	Computational modelling for the embolization of brain arteriovenous malformations. <i>Medical Engineering and Physics</i> , 2012 , 34, 873-81	2.4	12
101	Integration of local and global features for anatomical object detection in ultrasound. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 402-9	0.9	23
100	Controlled motion strain measurement using lateral speckle tracking in Achilles tendons during healing 2012 ,		3
99	Towards 3D registration of fetal brain MRI and ultrasound 2012 ,		1
98	Learning to detect cells using non-overlapping extremal regions. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 348-56	0.9	88
97	Registration of 3D fetal brain US and MRI. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 667-74	0.9	7
96	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	0.9	15
95	Feature extraction and wall motion classification of 2D stress echocardiography with relevance vector machines 2011 ,		10
94	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, 1056-72	3.5	31
93	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	5	7
92	Quality control of fetal ultrasound images: Detection of abdomen anatomical landmarks using AdaBoost 2011 ,		17
91	The evaluation of single-view and multi-view fusion 3D echocardiography using image-driven segmentation and tracking. <i>Medical Image Analysis</i> , 2011 , 15, 514-28	15.4	39
90	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, 1341-60	3.8	16

89	Automated segmentation and alignment of mitotic nuclei for kymograph visualisation 2011 ,		9
88	Recent advances in biomedical ultrasonic imaging techniques. <i>Interface Focus</i> , 2011 , 1, 475-476	3.9	17
87	Simultaneous Lesion Segmentation and Bias Correction in Breast Ultrasound Images. <i>Lecture Notes in Computer Science</i> , 2011 , 692-699	0.9	5
86	A novel local-phase method of automatic atlas construction in fetal ultrasound 2011 ,		1
85	Ultrasonic image analysis and image-guided interventions. <i>Interface Focus</i> , 2011 , 1, 673-85	3.9	37
84	The challenges of modern interdisciplinary medical research. <i>Nature Biotechnology</i> , 2011 , 29, 1145-8	44.5	6
83	Learning Optical Flow Propagation Strategies Using Random Forests for Fast Segmentation in Dynamic 2D & 3D Echocardiography. <i>Lecture Notes in Computer Science</i> , 2011 , 75-82	0.9	3
82	Automated Selection of Standardized Planes from Ultrasound Volume. <i>Lecture Notes in Computer Science</i> , 2011 , 35-42	0.9	17
81	Model-based ultrasound temperature visualization during and following HIFU exposure. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 234-49	3.5	25
80	Investigation into the fusion of multiple 4-D fetal echocardiography images to improve image quality. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 957-66	3.5	28
79	Interpreting ultrasound elastography: Image registration of breast cancer ultrasound elastography to histopathology images 2010 ,		3
78	The Effect of Attenuation Coefficient on Radiation Force Impulse Monitoring of Thermal Lesions 2010 ,		2
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