

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	Ultrasound image segmentation: a survey. IEEE Transactions on Medical Imaging, 2006, 25, 987-1010.	5.4	889
2	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
3	Weakly-supervised convolutional neural networks for multimodal image registration. Medical Image Analysis, 2018, 49, 1-13.	7.0	280
4	Finding corners. Image and Vision Computing, 1988, 6, 121-128.	2.7	254
5	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
6	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
7	Segmentation of ultrasound B-mode images with intensity inhomogeneity correction. IEEE Transactions on Medical Imaging, 2002, 21, 48-57.	5.4	168
8	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
9	A shape-space-based approach to tracking myocardial borders and quantifying regional left-ventricular function applied in echocardiography. IEEE Transactions on Medical Imaging, 2002, 21, 226-238.	5.4	123
10	Learning to Detect Cells Using Non-overlapping Extremal Regions. Lecture Notes in Computer Science, 2012, 15, 348-356.	1.0	120
11	Gestational weight gain standards based on women enrolled in the Fetal Growth Longitudinal Study of the INTERGROWTH-21 Project: a prospective longitudinal cohort study. BMJ, The, 2016, 352, i555.	3.0	116
12	Intensity-based 2-D-3-D registration of cerebral angiograms. IEEE Transactions on Medical Imaging, 2003, 22, 1417-1426.	5.4	114
13	A novel ultrasound indentation system for measuring biomechanical properties of in vivo soft tissue. Ultrasound in Medicine and Biology, 2003, 29, 813-823.	0.7	110
14	Quantitative 3-Dimensional Echocardiography for Accurate and Rapid Cardiac Phenotype Characterization in Mice. Circulation, 2004, 110, 1632-1637.	1.6	105
15	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
16	On the Choice of Band-Pass Quadrature Filters. Journal of Mathematical Imaging and Vision, 2004, 21, 53-80.	0.8	104
17	Registration of Multiview Real-Time 3-D Echocardiographic Sequences. IEEE Transactions on Medical Imaging, 2007, 26, 1154-1165.	5.4	97
18	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

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19	Interactive Object Counting. Lecture Notes in Computer Science, 2014, , 504-518.	1.0	85
20	MAP MRF joint segmentation and registration of medical images. Medical Image Analysis, 2003, 7, 539-552.	7.0	82
21	Random Forest Classification for Automatic Delineation of Myocardium in Real-Time 3D Echocardiography. Lecture Notes in Computer Science, 2009, , 447-456.	1.0	82
22	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
23	Label-driven weakly-supervised learning for multimodal deformable image registration. , 2018, , .		67
24	Learning-based prediction of gestational age from ultrasound images of the fetal brain. Medical Image Analysis, 2015, 21, 72-86.	7.0	66
25	Detecting overlapping instances in microscopy images using extremal region trees. Medical Image Analysis, 2016, 27, 3-16.	7.0	63
26	Evaluating a robust contour tracker on echocardiographic sequences. Medical Image Analysis, 1999, 3, 63-75.	7.0	61
27	Nonrigid registration of 3-D free-hand ultrasound images of the breast. IEEE Transactions on Medical Imaging, 2002, 21, 405-412.	5.4	58
28	Left Ventricular Strain Is Abnormal in Preclinical and Overt Hypertrophic Cardiomyopathy: Cardiac MR Feature Tracking. Radiology, 2019, 290, 640-648.	3.6	57
29	Velocity Estimation in Ultrasound Images: A Block Matching Approach. Lecture Notes in Computer Science, 2003, 18, 586-598.	1.0	57
30	A comparison of a similarity-based and a feature-based 2-D-3-D registration method for neurointerventional use. IEEE Transactions on Medical Imaging, 2005, 24, 1058-1066.	5.4	53
31	Pressure-dependent attenuation with microbubbles at low mechanical index. Ultrasound in Medicine and Biology, 2005, 31, 377-384.	0.7	51
32	Vascular Segmentation of Phase Contrast Magnetic Resonance Angiograms Based on Statistical Mixture Modeling and Local Phase Coherence. IEEE Transactions on Medical Imaging, 2004, 23, 1490-1507.	5.4	48
33	The evaluation of single-view and multi-view fusion 3D echocardiography using image-driven segmentation and tracking. Medical Image Analysis, 2011, 15, 514-528.	7.0	47
34	Statistical 3D Vessel Segmentation Using a Rician Distribution. Lecture Notes in Computer Science, 1999, , 82-89.	1.0	46
35	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
36	Local-phase based 3D boundary detection using monogenic signal and its application to real-time 3-D echocardiography images. , 2009, , .		45

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37	Real-time registration of 3D cerebral vessels to X-ray angiograms. Lecture Notes in Computer Science, 1998, , 1125-1133.	1.0	43
38	Fusing speed and phase information for vascular segmentation of phase contrast MR angiograms. Medical Image Analysis, 2002, 6, 109-128.	7.0	42
39	Ultrasonic image analysis and image-guided interventions. Interface Focus, 2011, 1, 673-685.	1.5	42
40	Adversarial Deformation Regularization for Training Image Registration Neural Networks. Lecture Notes in Computer Science, 2018, , 774-782.	1.0	42
41	Automated annotation and quantitative description of ultrasound videos of the fetal heart. Medical Image Analysis, 2017, 36, 147-161.	7.0	41
42	A Demons Algorithm for Image Registration with Locally Adaptive Regularization. Lecture Notes in Computer Science, 2009, 12, 574-581.	1.0	41
43	Multiview Fusion 3-d Echocardiography: Improving the Information and Quality of Real-Time 3-D Echocardiography. Ultrasound in Medicine and Biology, 2011, 37, 1056-1072.	0.7	40
44	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
45	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. The Lancet Digital Health, 2020, 2, e368-e375.	5.9	40
46	Segmentation of cerebral vessels and aneurysms from MR angiography data. Lecture Notes in Computer Science, 1997, , 423-428.	1.0	40
47	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
48	Automatic Probe Movement Guidance for Freehand Obstetric Ultrasound. Lecture Notes in Computer Science, 2020, 12263, 583-592.	1.0	38
49	Freehand Ultrasound Image Simulation with Spatially-Conditioned Generative Adversarial Networks. Lecture Notes in Computer Science, 2017, , 105-115.	1.0	38
50	Automated 3-D echocardiography analysis compared with manual delineations and SPECT MUGA. IEEE Transactions on Medical Imaging, 2002, 21, 1069-1076.	5.4	37
51	3-D freehand echocardiography for automatic left ventricle reconstruction and analysis based on multiple acoustic windows. IEEE Transactions on Medical Imaging, 2002, 21, 1051-1058.	5.4	36
52	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
53	VP-Nets : Efficient automatic localization of key brain structures in 3D fetal neurosonography. Medical Image Analysis, 2018, 47, 127-139.	7.0	33
54	Neurodevelopmental milestones and associated behaviours are similar among healthy children across diverse geographical locations. Nature Communications, 2019, 10, 511.	5.8	33

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55	Investigation into the Fusion of Multiple 4-D Fetal Echocardiography Images to Improve Image Quality. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 957-966.	0.7	32
56	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, 253-260.	0.7	32
57	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.	1.0	32
58	Real-Time 3D Fusion Echocardiography. <i>JACC: Cardiovascular Imaging</i> , 2010, 3, 682-690.	2.3	31
59	Adaptive Multiscale Ultrasound Compounding Using Phase Information. <i>Lecture Notes in Computer Science</i> , 2005, 8, 589-596.	1.0	31
60	Model-Based Ultrasound Temperature Visualization During and Following Hifu Exposure. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 234-249.	0.7	30
61	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
62	A Technique for the Estimation of Fractional Moving Blood Volume by Using Three-dimensional Power Doppler US. <i>Radiology</i> , 2015, 274, 230-237.	3.6	30
63	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
64	Registration of 3D fetal neurosonography and MRI. <i>Medical Image Analysis</i> , 2013, 17, 1137-1150.	7.0	29
65	Learning to Detect Partially Overlapping Instances. , 2013, , .		29
66	Automated characterization of the fetal heart in ultrasound images using fully convolutional neural networks. , 2017, , .		29
67	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> , 2005, 52, 1330-1342.	1.7	28
68	Modeling of Errors in Nakagami Imaging: Illustration on Breast Mass Characterization. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 917-930.	0.7	28
69	Exploring the utility of assistive artificial intelligence for ultrasound scanning in regional anesthesia. <i>Regional Anesthesia and Pain Medicine</i> , 2022, 47, 375-379.	1.1	28
70	Quantification of ultrasonic texture intra-heterogeneity via volumetric stochastic modeling for tissue characterization. <i>Medical Image Analysis</i> , 2015, 21, 59-71.	7.0	27
71	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.	0.8	27
72	Automated 3D ultrasound image analysis for first trimester assessment of fetal health. <i>Physics in Medicine and Biology</i> , 2019, 64, 185010.	1.6	27

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73	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
74	Multiview RT3D Echocardiography Image Fusion. <i>Lecture Notes in Computer Science</i> , 2009, , 134-143.	1.0	25
75	Feature-based fuzzy connectedness segmentation of ultrasound images with an object completion step. <i>Medical Image Analysis</i> , 2015, 26, 30-46.	7.0	25
76	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.	3.6	25
77	Spatio-temporal visual attention modelling of standard biometry plane-finding navigation. <i>Medical Image Analysis</i> , 2020, 65, 101762.	7.0	25
78	From inspection to process understanding and monitoring: a view on computer vision in manufacturing. <i>Image and Vision Computing</i> , 1995, 13, 197-214.	2.7	24
79	Quality control of fetal ultrasound images: Detection of abdomen anatomical landmarks using AdaBoost. , 2011, , .		24
80	Quantification of cardiac bull's-eye map based on principal strain analysis for myocardial wall motion assessment in stress echocardiography. , 2018, , .		24
81	Self-Supervised Ultrasound to MRI Fetal Brain Image Synthesis. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 4413-4424.	5.4	24
82	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.	1.0	24
83	Assisted-freehand ultrasound elasticity imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 36-43.	1.7	23
84	Self-Supervised Representation Learning for Ultrasound Video. , 2020, 2020, 1847-1850.		23
85	Difference of Gaussians revolved along elliptical paths for ultrasound fetal head segmentation. <i>Computerized Medical Imaging and Graphics</i> , 2014, 38, 774-784.	3.5	22
86	Ultrasound Image Representation Learning by Modeling Sonographer Visual Attention. <i>Lecture Notes in Computer Science</i> , 2019, 26, 592-604.	1.0	22
87	Temporal calibration of freehand three-dimensional ultrasound using image alignment. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 919-927.	0.7	21
88	Reproducibility and accuracy of automated measurement for dynamic arterial lumen area by cardiovascular magnetic resonance. <i>International Journal of Cardiovascular Imaging</i> , 2009, 25, 797-808.	0.7	21
89	Recent advances in biomedical ultrasonic imaging techniques. <i>Interface Focus</i> , 2011, 1, 475-476.	1.5	21
90	Data-driven shape parameterization for segmentation of the right ventricle from 3D+t echocardiography. <i>Medical Image Analysis</i> , 2015, 21, 29-39.	7.0	21

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91	Reflections on ultrasound image analysis. <i>Medical Image Analysis</i> , 2016, 33, 33-37.	7.0	21
92	Searching for Structures of Interest in an Ultrasound Video Sequence. <i>Lecture Notes in Computer Science</i> , 2014, , 133-140.	1.0	21
93	Computerised planning of the acquisition of cardiac MR images. <i>Computerized Medical Imaging and Graphics</i> , 2004, 28, 411-418.	3.5	20
94	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
95	Omni-Supervised Learning: Scaling Up to Large Unlabelled Medical Datasets. <i>Lecture Notes in Computer Science</i> , 2018, , 572-580.	1.0	20
96	Self-Supervised Contrastive Video-Speech Representation Learning for Ultrasound. <i>Lecture Notes in Computer Science</i> , 2020, 12263, 534-543.	1.0	20
97	Adaptive Non-rigid Registration of Real Time 3D Ultrasound to Cardiovascular MR Images. , 2007, 20, 50-61.		20
98	Spatio-temporal Registration of Real Time 3D Ultrasound to Cardiovascular MR Sequences. , 2007, 10, 343-350.		19
99	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.	0.7	19
100	Automated Selection of Standardized Planes from Ultrasound Volume. <i>Lecture Notes in Computer Science</i> , 2011, , 35-42.	1.0	19
101	Image quality assessment for machine learning tasks using meta-reinforcement learning. <i>Medical Image Analysis</i> , 2022, 78, 102427.	7.0	19
102	Local wall motion classification of stress echocardiography using a Hidden Markov Model approach. , 2008, , .		18
103	Temporal HeartNet: Towards Human-Level Automatic Analysis of Fetal Cardiac Screening Video. <i>Lecture Notes in Computer Science</i> , 2017, , 341-349.	1.0	18
104	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.	1.0	18
105	Fetal cranial segmentation in 2D ultrasound images using shape properties of pixel clusters. , 2013, , .		17
106	Heterogeneous Tissue Characterization Using Ultrasound: A Comparison of Fractal Analysis Backscatter Models on Liver Tumors. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 1612-1626.	0.7	17
107	Breast-lesion Segmentation Combining B-Mode and Elastography Ultrasound. <i>Ultrasonic Imaging</i> , 2016, 38, 209-224.	1.4	17
108	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

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109	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, 1.	0.8	17
110	2D+T acoustic boundary detection in echocardiography. <i>Lecture Notes in Computer Science</i> , 1998, , 806-813.	1.0	16
111	Vasculature segmentation of CT liver images using graph cuts and graph-based analysis. , 2008, , .		16
112	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
113	Computational modelling for the embolization of brain arteriovenous malformations. <i>Medical Engineering and Physics</i> , 2012, 34, 873-881.	0.8	16
114	The AutoQual ultrasound elastography method for quantitative assessment of lateral strain in post-rupture Achilles tendons. <i>Journal of Biomechanics</i> , 2013, 46, 2695-2700.	0.9	16
115	Fetal growth velocity standards from the Fetal Growth Longitudinal Study of the INTERGROWTH-21st Project. <i>American Journal of Obstetrics and Gynecology</i> , 2021, 224, 208.e1-208.e18.	0.7	16
116	Fourier Methods for Nonparametric Image Registration. , 2007, , .		15
117	Volume Segmentation and Reconstruction from Freehand Three-Dimensional Ultrasound Data with Application to Ovarian Follicle Measurement. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 183-195.	0.7	15
118	Elasticity reconstruction from displacement and confidence measures of a multi-compressed ultrasound RF sequence. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008, 55, 319-326.	1.7	15
119	Demons algorithms for fluid and curvature registration. , 2009, , .		15
120	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
121	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.	1.1	15
122	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.	1.1	15
123	Phase-Based Registration of Multi-view Real-Time Three-Dimensional Echocardiographic Sequences. <i>Lecture Notes in Computer Science</i> , 2006, 9, 612-619.	1.0	15
124	Automated 3D Ultrasound Biometry Planes Extraction for First Trimester Fetal Assessment. <i>Lecture Notes in Computer Science</i> , 2016, , 196-204.	1.0	15
125	Revisiting overlap invariance in medical image alignment. , 2008, , .		14
126	Effect of malaria on placental volume measured using three-dimensional ultrasound: a pilot study. <i>Malaria Journal</i> , 2012, 11, 5.	0.8	14

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127	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.	1.7	14
128	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
129	Automating 3D Echocardiographic Image Analysis. <i>Lecture Notes in Computer Science</i> , 2000, , 687-696.	1.0	13
130	Automated, nonrigid alignment of clinical myocardial contrast echocardiography image sequences: comparison with manual alignment. <i>Ultrasound in Medicine and Biology</i> , 2002, 28, 115-123.	0.7	13
131	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, 1120-1128.	3.9	13
132	Captioning Ultrasound Images Automatically. <i>Lecture Notes in Computer Science</i> , 2019, 22, 338-346.	1.0	13
133	Evaluation of Gaze Tracking Calibration for Longitudinal Biomedical Imaging Studies. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 153-163.	6.2	12
134	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> , 2018, 2, 49.	2.0	12
135	Feature extraction and wall motion classification of 2D stress echocardiography with relevance vector machines. , 2011, , .		11
136	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
137	The challenges of modern interdisciplinary medical research. <i>Nature Biotechnology</i> , 2011, 29, 1145-1148.	9.4	11
138	Image Analysis Using Machine Learning: Anatomical Landmarks Detection in Fetal Ultrasound Images. , 2012, , .		11
139	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
140	Finding half boundaries and junctions in images. <i>Image and Vision Computing</i> , 1992, 10, 219-232.	2.7	10
141	Segmentation of breast cancer masses in ultrasound using radio-frequency signal derived parameters and strain estimates. , 2008, , .		10
142	Ultrasound estimation of breast tissue biomechanical properties using a similarity-based non-linear optimization approach. <i>Journal of Strain Analysis for Engineering Design</i> , 2009, 44, 363-374.	1.0	10
143	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
144	Class-Specific Regression Random Forest for Accurate Extraction of Standard Planes from 3D Echocardiography. <i>Lecture Notes in Computer Science</i> , 2014, , 53-62.	1.0	10

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145	Automated segmentation and alignment of mitotic nuclei for kymograph visualisation. , 2011, , .		9
146	Volumetric Segmentation of Key Fetal Brain Structures in 3D Ultrasound. Lecture Notes in Computer Science, 2013, , 25-32.	1.0	9
147	3D Fusion Echocardiography Improves 3D Left Ventricular Assessment: Comparison with 2D Contrast Echocardiography. Echocardiography, 2015, 32, 302-309.	0.3	9
148	Robust Regression of Brain Maturation from 3D Fetal Neurosonography Using CRNs. Lecture Notes in Computer Science, 2017, , 73-80.	1.0	9
149	Multi-anatomy localization in fetal echocardiography videos. , 2019, , .		9
150	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
151	Efficient Ultrasound Image Analysis Models with Sonographer Gaze Assisted Distillation. Lecture Notes in Computer Science, 2019, 22, 394-402.	1.0	9
152	Structured Random Forests for Myocardium Delineation in 3D Echocardiography. Lecture Notes in Computer Science, 2014, , 215-222.	1.0	9
153	Wall Motion Classification of Stress Echocardiography Based on Combined Rest-and-Stress Data. Lecture Notes in Computer Science, 2008, 11, 139-146.	1.0	9
154	Anatomical Object Detection in Fetal Ultrasound: Computer-Expert Agreements. Communications in Computer and Information Science, 2014, , 207-218.	0.4	9
155	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, 0, 2, 49.	2.0	9
156	Objective quantification of global and regional left ventricular systolic function by endocardial tracking of contrast echocardiographic sequences. International Journal of Cardiology, 2008, 124, 47-56.	0.8	8
157	Object localisation in fetal ultrasound images using invariant features. , 2015, , .		8
158	Intraoperative Organ Motion Models with an Ensemble of Conditional Generative Adversarial Networks. Lecture Notes in Computer Science, 2017, , 368-376.	1.0	8
159	Automatic Lacunae Localization in Placental Ultrasound Images via Layer Aggregation. Lecture Notes in Computer Science, 2018, 11071, 921-929.	1.0	8
160	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
161	Multi-Modal Learning from Video, Eye Tracking, and Pupillometry for Operator Skill Characterization in Clinical Fetal Ultrasound. , 2021, 2021, 1646-1649.		8
162	Demarcation of Aneurysms Using the Seed and Cull Algorithm. Lecture Notes in Computer Science, 2002, , 419-426.	1.0	8

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163	Conditional Segmentation in Lieu of Image Registration. Lecture Notes in Computer Science, 2019, , 401-409.	1.0	8
164	Uncertainty Estimates as Data Selection Criteria to Boost Omni-Supervised Learning. Lecture Notes in Computer Science, 2020, , 689-698.	1.0	8
165	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
166	Weakly Supervised Learning of Placental Ultrasound Images with Residual Networks. Communications in Computer and Information Science, 2017, 723, 98-108.	0.4	8
167	Registration of 3D Fetal Brain US and MRI. Lecture Notes in Computer Science, 2012, 15, 667-674.	1.0	8
168	Delineating anatomical boundaries using the boundary fragment model. Medical Image Analysis, 2013, 17, 1123-1136.	7.0	7
169	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
170	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
171	Contrastive Fairness in Machine Learning. IEEE Letters of the Computer Society, 2020, 3, 38-41.	1.1	7
172	Visual-Assisted Probe Movement Guidance for Obstetric Ultrasound Scanning Using Landmark Retrieval. Lecture Notes in Computer Science, 2021, 12908, 670-679.	1.0	7
173	Principled Ultrasound Data Augmentation for Classification of Standard Planes. Lecture Notes in Computer Science, 2021, , 729-741.	1.0	7
174	Differentiating Operator Skill During Routine Fetal Ultrasound Scanning Using Probe Motion Tracking. Lecture Notes in Computer Science, 2020, 12437, 180-188.	1.0	7
175	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
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