



Alison Noble

Technikos Professor of Biomedical Engineering,
University of Oxford
, UK

Medical image analysis
ultrasound
obstetrics imaging
cardiovascular imaging
global health

GET MY OWN PROFILE

	All	Since 2014
Citations	11952	6633
h-index	52	38
i10-index	200	134

TITLE	CITED BY	YEAR
Ultrasound image segmentation: a survey A Noble, D Boukerroui IEEE Transactions on medical imaging 25 (8), 987-1010	1020	2006
The biology of platelet-rich plasma and its application in trauma and orthopaedic surgery: a review of the literature J Alsousou, M Thompson, P Hulley, A Noble, K Willett The Journal of bone and joint surgery. British volume 91 (8), 987-996	565	2009
International standards for newborn weight, length, and head circumference by gestational age and sex: the Newborn Cross-Sectional Study of the INTERGROWTH-21st Project J Villar, LC Ismail, CG Victora, EO Ohuma, E Bertino, DG Altman, ... The Lancet 384 (9946), 857-868	529	2014
Finding corners JA Noble Image and vision computing 6 (2), 121-128	418	1988
International standards for fetal growth based on serial ultrasound measurements: the Fetal Growth Longitudinal Study of the INTERGROWTH-21st Project AT Papageorghiou, EO Ohuma, DG Altman, T Todros, LC Ismail, ... The Lancet 384 (9946), 869-879	299	2014
Segmentation of ultrasound B-mode images with intensity inhomogeneity correction G Xiao, M Brady, JA Noble, Y Zhang IEEE Transactions on medical imaging 21 (1), 48-57	205	2002
An adaptive segmentation algorithm for time-of-flight MRA data DL Wilson, JA Noble IEEE transactions on medical imaging 18 (10), 938-945	201	1999
A shape-space-based approach to tracking myocardial borders and quantifying regional left-ventricular function applied in echocardiography G Jacob, JA Noble, C Behrenbruch, AD Kelion, AP Banning IEEE Transactions on Medical Imaging 21 (3), 226-238	176	2002
2D+ T acoustic boundary detection in echocardiography M Mulet-Parada, JA Noble Medical image analysis 4 (1), 21-30	173	2000

TITLE	CITED BY	YEAR
Global and regional left ventricular myocardial deformation measures by magnetic resonance feature tracking in healthy volunteers: comparison with tagging and relevance of gender D Augustine, AJ Lewandowski, M Lazdam, A Rai, J Francis, S Myerson, ... Journal of Cardiovascular Magnetic Resonance 15 (1), 8	164	2013
Segmentation of ultrasound images—multiresolution 2D and 3D algorithm based on global and local statistics D Boukerroui, A Baskurt, JA Noble, O Basset Pattern Recognition Letters 24 (4-5), 779-790	162	2003
Intensity-based 2-D-3-D registration of cerebral angiograms JH Hipwell, GP Penney, RA McLaughlin, K Rhode, P Summers, TC Cox, ... IEEE transactions on medical imaging 22 (11), 1417-1426	161	2003
Learning to detect cells using non-overlapping extremal regions C Arteta, V Lempitsky, JA Noble, A Zisserman International Conference on Medical Image Computing and Computer-Assisted ...	158	2012
A novel ultrasound indentation system for measuring biomechanical properties of in vivo soft tissue L Han, JA Noble, M Burcher Ultrasound in medicine & biology 29 (6), 813-823	150	2003
Ultrasound image segmentation and tissue characterization JA Noble Proceedings of the Institution of Mechanical Engineers, Part H: Journal of ...	142	2010
The objectives, design and implementation of the INTERGROWTH-21st Project J Villar, DG Altman, M Purwar, JA Noble, HE Knight, P Ruyan, ... BJOG: An International Journal of Obstetrics & Gynaecology 120, 9-26	139	2013
Microscopy cell counting and detection with fully convolutional regression networks W Xie, JA Noble, A Zisserman Computer methods in biomechanics and biomedical engineering: Imaging ...	137	2018
The likeness of fetal growth and newborn size across non-isolated populations in the INTERGROWTH-21st Project: the Fetal Growth Longitudinal Study and Newborn Cross-Sectional Study J Villar, AT Papageorgiou, R Pang, EO Ohuma, LC Ismail, FC Barros, ... The lancet Diabetes & endocrinology 2 (10), 781-792	135	2014
On the choice of band-pass quadrature filters D Boukerroui, JA Noble, M Brady Journal of Mathematical Imaging and Vision 21 (1-2), 53-80	127	2004
Random forest classification for automatic delineation of myocardium in real-time 3D echocardiography V Lempitsky, M Verhoek, JA Noble, A Blake International Conference on Functional Imaging and Modeling of the Heart ...	123	2009
Registration of multiview real-time 3-D echocardiographic sequences V Grau, H Becher, JA Noble IEEE transactions on medical imaging 26 (9), 1154-1165	115	2007

TITLE	CITED BY	YEAR
International Fetal and Newborn Growth Consortium for the 21st Century (INTERGROWTH-21st). International standards for newborn weight, length, and head circumference by ... J Villar, L Cheikh Ismail, CG Victora, EO Ohuma, E Bertino, DG Altman, ... Lancet 384 (9946), 857-868	112	2014
Quantitative 3-dimensional echocardiography for accurate and rapid cardiac phenotype characterization in mice D Dawson, CA Lygate, J Saunders, JE Schneider, X Ye, K Hulbert, ... Circulation 110 (12), 1632-1637	112	2004
MAP MRF joint segmentation and registration of medical images PP Wyatt, JA Noble Medical Image Analysis 7 (4), 539-552	110	2003
Velocity estimation in ultrasound images: A block matching approach D Boukerroui, JA Noble, M Brady Biennial International Conference on Information Processing in Medical ...	106	2003
Real-time registration of 3D cerebral vessels to X-ray angiograms Y Kita, DL Wilson, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	101	1998
International standards for early fetal size and pregnancy dating based on ultrasound measurement of crown-rump length in the first trimester of pregnancy AT Papageorghiou, SH Kennedy, LJ Salomon, EO Ohuma, LC Ismail, ... Ultrasound in Obstetrics & Gynecology 44 (6), 641-648	100	2014
Non-rigid motion image analysis JA Noble, G Jacob US Patent 7,043,063	98	2006
Evaluating a robust contour tracker on echocardiographic sequences G Jacob, JA Noble, M Mulet-Parada, A Blake Medical Image Analysis 3 (1), 63-75	98	1999
Nonrigid registration of 3-D free-hand ultrasound images of the breast G Xiao, JM Brady, JA Noble, M Burcher, R English IEEE Transactions on medical imaging 21 (4), 405-412	92	2002
Interactive object counting C Arteta, V Lempitsky, JA Noble, A Zisserman European conference on computer vision, 504-518	87	2014
Classifying and sorting crystalline objects RI Hartley, JA Noble, JCM Grande, WE Jackson, IIKB Welles, JS Liu US Patent 5,544,254	87	1996
Statistical 3D vessel segmentation using a Rician distribution ACS Chung, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	83	1999
Postnatal growth standards for preterm infants: the Preterm Postnatal Follow-up Study of the INTERGROWTH-21st Project J Villar, F Giuliani, ZA Bhutta, E Bertino, EO Ohuma, LC Ismail, FC Barros, ... The Lancet Global Health 3 (11), e681-e691	82	2015

TITLE	CITED BY	YEAR
<p>Imaging techniques for cardiac strain and deformation: comparison of echocardiography, cardiac magnetic resonance and cardiac computed tomography</p> <p>M Tee, JA Noble, DA Bluemke Expert review of cardiovascular therapy 11 (2), 221-231</p>	79	2013
<p>Vascular segmentation of phase contrast magnetic resonance angiograms based on statistical mixture modeling and local phase coherence</p> <p>ACS Chung, JA Noble, P Summers IEEE Transactions on Medical Imaging 23 (12), 1490-1507</p>	78	2004
<p>Segmentation of cerebral vessels and aneurysms from MR angiography data</p> <p>DL Wilson, JA Noble Biennial International Conference on Information Processing in Medical ...</p>	77	1997
<p>Evaluation and comparison of current fetal ultrasound image segmentation methods for biometric measurements: a grand challenge</p> <p>S Rueda, S Fathima, CL Knight, M Yaqub, AT Papageorghiou, ... IEEE Transactions on medical imaging 33 (4), 797-813</p>	76	2013
<p>The effect of maternal vitamin D concentration on fetal bone</p> <p>C Ioannou, MK Javaid, P Mahon, MK Yaqub, NC Harvey, KM Godfrey, ... The Journal of Clinical Endocrinology & Metabolism 97 (11), E2070-E2077</p>	74	2012
<p>A comparison of a similarity-based and a feature-based 2-D-3-D registration method for neurointerventional use</p> <p>RA McLaughlin, J Hipwell, DJ Hawkes, JA Noble, JV Byrne, TC Cox IEEE Transactions on Medical Imaging 24 (8), 1058-1066</p>	74	2005
<p>International Fetal and Newborn Growth Consortium for the 21st Century (INTERGROWTH-21st). International standards for fetal growth based on serial ultrasound measurements: the ...</p> <p>AT Papageorghiou, EO Ohuma, DG Altman, T Todros, L Cheikh Ismail, ... Lancet 384 (9946), 869-879</p>	69	2014
<p>Detection of features in images</p> <p>M Mulet-Parada, JA Noble US Patent 7,519,206</p>	69	2009
<p>International estimated fetal weight standards of the INTERGROWTH-21st Project</p> <p>J Stirnemann, J Villar, LJ Salomon, E Ohuma, P Ruyan, DG Altman, ... Ultrasound in obstetrics & gynecology 49 (4), 478-486</p>	67	2017
<p>A comparison of 2D-3D intensity-based registration and feature-based registration for neurointerventions</p> <p>RA McLaughlin, J Hipwell, DJ Hawkes, JA Noble, JV Byrne, T Cox International Conference on Medical Image Computing and Computer-Assisted ...</p>	67	2002
<p>Local-phase based 3D boundary detection using monogenic signal and its application to real-time 3-D echocardiography images</p> <p>K Rajpoot, V Grau, JA Noble 2009 IEEE International Symposium on Biomedical Imaging: From Nano to Macro ...</p>	64	2009

TITLE	CITED BY	YEAR
A demons algorithm for image registration with locally adaptive regularization ND Cahill, JA Noble, DJ Hawkes International Conference on Medical Image Computing and Computer-Assisted ...	61	2009
The distribution of clinical phenotypes of preterm birth syndrome: implications for prevention FC Barros, AT Papageorghiou, CG Victora, JA Noble, R Pang, J Iams, ... JAMA pediatrics 169 (3), 220-229	59	2015
Pressure-dependent attenuation with microbubbles at low mechanical index MX Tang, RJ Eckersley, JA Noble Ultrasound in medicine & biology 31 (3), 377-384	59	2005
Fusing speed and phase information for vascular segmentation of phase contrast MR angiograms ACS Chung, JA Noble, P Summers Medical Image Analysis 6 (2), 109-128	57	2002
Medical Image Computing and Computer-Assisted Intervention--MICCAI 2009: 12th International Conference, London, UK, September 20-24, 2009, Proceedings GZ Yang, DJ Hawkes, D Rueckert, A Noble, C Taylor Springer	56	2009
High precision X-ray stereo for automated 3D CAD-based inspection JA Noble, R Gupta, J Mundy, A Schmitz, RI Hartley IEEE Transactions on Robotics and automation 14 (2), 292-302	55	1998
MAP MRF joint segmentation and registration PP Wyatt, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	53 *	2002
The evaluation of single-view and multi-view fusion 3D echocardiography using image-driven segmentation and tracking K Rajpoot, V Grau, JA Noble, H Becher, C Szmigielski Medical image analysis 15 (4), 514-528	52	2011
A review on automatic analysis of human embryo microscope images E Santos Filho, JA Noble, D Wells The open biomedical engineering journal 4, 170	52	2010
3-D freehand echocardiography for automatic left ventricle reconstruction and analysis based on multiple acoustic windows X Ye, JA Noble, D Atkinson IEEE transactions on medical imaging 21 (9), 1051-1058	52	2002
Multiview RT3D echocardiography image fusion K Rajpoot, JA Noble, V Grau, C Szmigielski, H Becher International Conference on Functional Imaging and Modeling of the Heart ...	51	2009
Automated 3-D echocardiography analysis compared with manual delineations and SPECT MUGA GI Sanchez-Ortiz, GJT Wright, N Clarke, J Declerck, AP Banning, ... IEEE transactions on medical imaging 21 (9), 1069-1076	51	2002

TITLE	CITED BY	YEAR
Method and computer program for spatial compounding of images V Grau, JA Noble US Patent App. 11/988,657	50	2009
Unsupervised data segmentation R McLaughlin, J Noble US Patent App. 10/506,468	50	2005
Gestational weight gain standards based on women enrolled in the Fetal Growth Longitudinal Study of the INTERGROWTH-21st Project: a prospective longitudinal cohort study LC Ismail, DC Bishop, R Pang, EO Ohuma, G Kac, B Abrams, ... bmj 352, i555	49	2016
Ultrasonic image analysis and image-guided interventions JA Noble, N Navab, H Becher Interface focus 1 (4), 673-685	48	2011
Adaptive multiscale ultrasound compounding using phase information V Grau, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	48	2005
Ultrasound-based gestational-age estimation in late pregnancy AT Papageorghiou, B Kemp, W Stones, EO Ohuma, SH Kennedy, ... Ultrasound in Obstetrics & Gynecology 48 (6), 719-726	47	2016
Investigation of the role of feature selection and weighted voting in random forests for 3-D volumetric segmentation M Yaqub, MK Javaid, C Cooper, JA Noble IEEE transactions on medical imaging 33 (2), 258-271	46	2013
Robust contour tracking in echocardiographic sequences G Jacob, JA Noble, A Blake Sixth International Conference on Computer Vision (IEEE Cat. No. 98CH36271 ...	46	1998
Investigating the intrinsic dimensionality of FMRI data for ICA CF Beckmann, JA Noble, SM Smith NeuroImage 6 (13), 76	45	2001
A method for semi-automatic grading of human blastocyst microscope images ES Filho, JA Noble, M Poli, T Griffiths, G Emerson, D Wells Human reproduction 27 (9), 2641-2648	44	2012
Investigation into the fusion of multiple 4-D fetal echocardiography images to improve image quality MJ Gooding, K Rajpoot, S Mitchell, P Chamberlain, SH Kennedy, ... Ultrasound in medicine & biology 36 (6), 957-966	44	2010
2D+ T acoustic boundary detection in echocardiography M Mulet-Parada, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	43	1998
From inspection to process understanding and monitoring: a view on computer vision in manufacturing JA Noble Image and vision computing 13 (3), 197-214	42	1995

TITLE	CITED BY	YEAR
System and method for image sequence processing AT Zabair, JA Noble US Patent 8,396,268	41	2013
Quantitative regional analysis of myocardial wall motion G Jacob, JA Noble, AD Kelion, AP Banning Ultrasound in medicine & biology 27 (6), 773-784	40	2001
Learning to detect partially overlapping instances C Arteta, V Lempitsky, JA Noble, A Zisserman Proceedings of the IEEE Conference on Computer Vision And Pattern ...	39	2013
Multiview fusion 3-D echocardiography: improving the information and quality of real-time 3-D echocardiography K Rajpoot, V Grau, JA Noble, C Szmigielski, H Becher Ultrasound in medicine & biology 37 (7), 1056-1072	39	2011
Assessment of a technique for 2D–3D registration of cerebral intra-arterial angiography JV Byrne, C Colominas, J Hipwell, T Cox, JA Noble, GP Penney, ... The British journal of radiology 77 (914), 123-128	38	2004
X-ray metrology for quality assurance A Noble, R Hartley, J Mundy, J Farley Proceedings of the 1994 IEEE International Conference on Robotics and ...	37	1994
Morphological Feature Detection. JA Noble ICCV 88, 112-116	37	1988
Influence of power Doppler gain setting on Virtual Organ Computer-aided AnaLysis indices <i>in vivo</i>: can use of the individual sub-noise gain level optimize ... SL Collins, GN Stevenson, JA Noble, L Impey, AW Welsh Ultrasound in Obstetrics & Gynecology 40 (1), 75-80	36	2012
Integration of local and global features for anatomical object detection in ultrasound B Rahmatullah, AT Papageorghiou, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	35	2012
Real-time 3D fusion echocardiography C Szmigielski, K Rajpoot, V Grau, SG Myerson, C Holloway, JA Noble, ... JACC: Cardiovascular imaging 3 (7), 682-690	35	2010
Fourier methods for nonparametric image registration ND Cahill, JA Noble, DJ Hawkes 2007 IEEE Conference on Computer Vision and Pattern Recognition, 1-8	34	2007
Detecting overlapping instances in microscopy images using extremal region trees C Arteta, V Lempitsky, JA Noble, A Zisserman Medical image analysis 27, 3-16	33	2016
Use of passive arrays for characterization and mapping of cavitation activity during HIFU exposure M Gyongy, M Arora, JA Noble, CC Coussios 2008 IEEE Ultrasonics Symposium, 871-874	33	2008

TITLE	CITED BY	YEAR
<p>Anthropometric characterization of impaired fetal growth: risk factors for and prognosis of newborns with stunting or wasting CG Victora, J Villar, FC Barros, LC Ismail, C Chumlea, AT Papageorghiou, ... JAMA pediatrics 169 (7), e151431-e151431</p>	32	2015
<p>Adaptive non-rigid registration of real time 3d ultrasound to cardiovascular mr images W Zhang, JA Noble, JM Brady Biennial International Conference on Information Processing in Medical ...</p>	32	2007
<p>Enhancement of contrast regions in suboptimal ultrasound images with application to echocardiography D Boukerroui, JA Noble, MC Robini, M Brady Ultrasound in medicine & biology 27 (12), 1583-1594</p>	32	2001
<p>Monitoring human growth and development: a continuum from the womb to the classroom J Villar, AT Papageorghiou, R Pang, LJ Salomon, A Langer, C Victora, ... American journal of obstetrics and gynecology 213 (4), 494-499</p>	31	2015
<p>Rapid calculation of standardized placental volume at 11 to 13 weeks and the prediction of small for gestational age babies SL Collins, GN Stevenson, JA Noble, L Impey Ultrasound in medicine & biology 39 (2), 253-260</p>	31	2013
<p>Demons algorithms for fluid and curvature registration ND Cahill, JA Noble, DJ Hawkes 2009 IEEE International Symposium on Biomedical Imaging: From Nano to Macro ...</p>	30	2009
<p>Learning-based prediction of gestational age from ultrasound images of the fetal brain AIL Namburete, RV Stebbing, B Kemp, M Yaqub, AT Papageorghiou, ... Medical image analysis 21 (1), 72-86</p>	29	2015
<p>Intensity-based registration versus feature-based registration for neurointerventions RA McLaughlin, J Hipwell, GP Penney, K Rhode, A Chung, JA Noble, ... Proc. Med. Image. Understanding Analysis</p>	29	2001
<p>Improving the classification accuracy of the classic rf method by intelligent feature selection and weighted voting of trees with application to medical image segmentation M Yaqub, MK Javaid, C Cooper, JA Noble International Workshop on Machine Learning in Medical Imaging, 184-192</p>	28	2011
<p>Model-based ultrasound temperature visualization during and following HIFU exposure G Ye, PP Smith, JA Noble Ultrasound in medicine & biology 36 (2), 234-249</p>	28	2010
<p>Temporal calibration of freehand three-dimensional ultrasound using image alignment MJ Gooding, SH Kennedy, JA Noble Ultrasound in medicine & biology 31 (7), 919-927</p>	28	2005

TITLE	CITED BY	YEAR
Spatio-temporal registration of real time 3D ultrasound to cardiovascular MR sequences W Zhang, JA Noble, JM Brady International Conference on Medical Image Computing and Computer-Assisted ...	27	2007
Revisiting overlap invariance in medical image alignment ND Cahill, JA Schnabel, JA Noble, DJ Hawkes 2008 IEEE Computer Society Conference on Computer Vision and Pattern ...	26	2008
Automating 3D echocardiographic image analysis GI Sanchez-Ortiz, J Declerck, M Mulet-Parada, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	26	2000
The antepartum stillbirth syndrome: risk factors and pregnancy conditions identified from the INTERGROWTH-21st Project JE Hirst, J Villar, CG Victora, AT Papageorghiou, D Finkton, FC Barros, ... BJOG: An International Journal of Obstetrics & Gynaecology 125 (9), 1145-1153	25	2018
Nakagami imaging with small windows A Larrue, JA Noble 2011 IEEE International Symposium on Biomedical Imaging: From Nano to Macro ...	25	2011
Phase-based registration of multi-view real-time three-dimensional echocardiographic sequences V Grau, H Becher, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	25	2006
Segmentation of echocardiographic data. Multiresolution 2D and 3D algorithm based on grey level statistics D Boukerroui, O Basset, A Baskurt, A Noble International Conference on Medical Image Computing and Computer-Assisted ...	25	1999
Registration of 3D fetal neurosonography and MRI M Kuklisova-Murgasova, A Cifor, R Napolitano, A Papageorghiou, ... Medical image analysis 17 (8), 1137-1150	24	2013
Artefact detection in FMRI data using independent component analysis CF Beckmann, JA Noble, SM Smith	24	2000
Template guided visual inspection A Noble, VD Nguyen, C Marinos, AT Tran, J Farley, K Hedengren, ... European Conference on Computer Vision, 893-901	24	1992
Finding half boundaries and junctions in images JA Noble Image and Vision Computing 10 (4), 219-232	24	1992
Reproducibility and accuracy of automated measurement for dynamic arterial lumen area by cardiovascular magnetic resonance CE Jackson, CC Shirodaria, JMS Lee, JM Francis, RP Choudhury, ... The international journal of cardiovascular imaging 25 (8), 797	23	2009
Assisted-freehand ultrasound elasticity imaging MJ Kadour, JA Noble IEEE transactions on ultrasonics, ferroelectrics, and frequency control 56 ...	23	2009

TITLE	CITED BY	YEAR
International standards for symphysis-fundal height based on serial measurements from the Fetal Growth Longitudinal Study of the INTERGROWTH-21st Project: prospective cohort ... AT Papageorghiou, EO Ohuma, MG Gravett, J Hirst, MF Da Silveira, ... bmj 355, i5662	22	2016
Guided random forests for identification of key fetal anatomy and image categorization in ultrasound scans M Yaqub, B Kelly, AT Papageorghiou, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	22	2015
Vasculature segmentation of CT liver images using graph cuts and graph-based analysis H Homann, G Vesom, JA Noble 2008 5th IEEE international symposium on biomedical imaging: from nano to ...	22	2008
Elasticity reconstruction from displacement and confidence measures of a multi-compressed ultrasound RF sequence J Li, Y Cui, M Kadour, JA Noble IEEE transactions on ultrasonics, ferroelectrics, and frequency control 55 ...	22	2008
Computerised planning of the acquisition of cardiac MR images CE Jackson, MD Robson, JM Francis, JA Noble Computerized Medical Imaging and Graphics 28 (7), 411-418	22	2004
Automated, nonrigid alignment of clinical myocardial contrast echocardiography image sequences: comparison with manual alignment JA Noble, D Dawson, J Lindner, J Sklenar, S Kaul Ultrasound in medicine & biology 28 (1), 115-123	22	2002
Determining X-ray projections for coil treatments of intracranial aneurysms DL Wilson, DD Royston, JA Noble, JV Byrne IEEE transactions on medical imaging 18 (10), 973-980	22	1999
Right ventricular strain by MR quantitatively identifies regional dysfunction in patients with arrhythmogenic right ventricular cardiomyopathy DM Vigneault, ASJM te Riele, CA James, SL Zimmerman, M Selwaness, ... Journal of magnetic resonance imaging 43 (5), 1132-1139	21	2016
Describing ultrasound video content using deep convolutional neural networks Y Gao, MA Maraci, JA Noble 2016 IEEE 13th International Symposium on Biomedical Imaging (ISBI), 787-790	21	2016
System and Method for Image Sequence Processing AT Zabair, JA Noble US Patent App. 13/771,317	21	2013
Automated selection of standardized planes from ultrasound volume B Rahmatullah, A Papageorghiou, JA Noble International Workshop on Machine Learning in Medical Imaging, 35-42	21	2011
Feature detection from echocardiography images using local phase information K Rajpoot, A Noble, V Grau, N Rajpoot Medical Image Understanding and Analysis	21	2008

TITLE	CITED BY	YEAR
Respiratory motion compensation for 3-D freehand echocardiography D Atkinson, M Burcher, J Declerck, JA Noble Ultrasound in medicine & biology 27 (12), 1615-1620	21	2001
3-D ultrasound segmentation of the placenta using the random walker algorithm: reliability and agreement GN Stevenson, SL Collins, J Ding, L Impey, JA Noble Ultrasound in medicine & biology 41 (12), 3182-3193	20	2015
Feature-based fuzzy connectedness segmentation of ultrasound images with an object completion step S Rueda, CL Knight, AT Papageorghiou, JA Noble Medical image analysis 26 (1), 30-46	20	2015
Measurement of spiral artery jets: general principles and differences observed in small-for-gestational-age pregnancies SL Collins, JS Birks, GN Stevenson, AT Papageorghiou, JA Noble, ... Ultrasound in Obstetrics & Gynecology 40 (2), 171-178	20	2012
Passive cavitation mapping for monitoring ultrasound therapy M Gyöngy	20	2010
Local wall motion classification of stress echocardiography using a hidden Markov model approach S Mansor, JA Noble 2008 5th IEEE International Symposium on Biomedical Imaging: From Nano to ...	20	2008
Real time 3-D ultrasound to MR cardiovascular image registration using a phase-based approach W Zhang, JA Noble, JM Brady 3rd IEEE International Symposium on Biomedical Imaging: Nano to Macro, 2006 ...	20	2006
Non-invasive measurement of biomechanical properties of in vivo soft tissues L Han, M Burcher, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	20	2002
Body composition at birth and its relationship with neonatal anthropometric ratios: the newborn body composition study of the INTERGROWTH-21st project J Villar, FA Puglia, TR Fenton, LC Ismail, E Staines-Urias, F Giuliani, ... Pediatric research 82 (2), 305	19	2017
A rapid questionnaire assessment of environmental exposures to pregnant women in the INTERGROWTH-21st Project B Eskenazi, A Bradman, D Finkton, M Purwar, JA Noble, R Pang, ... BJOG: An International Journal of Obstetrics & Gynaecology 120, 129-138	19	2013
Developmental changes in spiral artery blood flow in the human placenta observed with colour Doppler ultrasonography SL Collins, GN Stevenson, JA Noble, L Impey Placenta 33 (10), 782-787	19	2012
Quality control of fetal ultrasound images: Detection of abdomen anatomical landmarks using adaboost B Rahmatullah, I Sarris, A Papageorghiou, JA Noble 2011 IEEE International Symposium on Biomedical Imaging: From Nano to Macro, 6-9	19	2011

TITLE	CITED BY	YEAR
The elastic reconstruction of soft tissues L Han, A Noble, M Burcher Proceedings IEEE International Symposium on Biomedical Imaging, 1035-1038	19	2002
Deformation correction in ultrasound images using contact force measurements MR Burcher, L Han, JA Noble Proceedings IEEE Workshop on Mathematical Methods in Biomedical Image ...	19	2001
Camera calibration for 2.5-D X-ray metrology R Gupta, A Noble, R Hartley, J Mundy, A Schmitz Proceedings., International Conference on Image Processing 3, 37-40	19	1995
Freehand ultrasound image simulation with spatially-conditioned generative adversarial networks Y Hu, E Gibson, LL Lee, W Xie, DC Barratt, T Vercauteren, JA Noble Molecular Imaging, Reconstruction and Analysis of Moving Body Organs, and ...	18	2017
A framework for analysis of linear ultrasound videos to detect fetal presentation and heartbeat MA Maraci, CP Bridge, R Napolitano, A Papageorghiou, JA Noble Medical image analysis 37, 22-36	18	2017
Fetal cranial segmentation in 2D ultrasound images using shape properties of pixel clusters AIL Namburete, JA Noble 2013 IEEE 10th International Symposium on Biomedical Imaging, 720-723	18	2013
Volume segmentation and reconstruction from freehand three-dimensional ultrasound data with application to ovarian follicle measurement MJ Gooding, S Kennedy, JA Noble Ultrasound in medicine & biology 34 (2), 183-195	18	2008
Method and apparatus for ultrasound examination M Burcher, J Noble US Patent App. 10/489,481	18	2004
Creating agile supply chains for competitive advantage RSM Lau, NM Hurley South Dakota Business Review 60 (1), 1-1	18	2001
Label-driven weakly-supervised learning for multimodal deformable image registration Y Hu, M Modat, E Gibson, N Ghavami, E Bonmati, CM Moore, M Emberton, ... 2018 IEEE 15th International Symposium on Biomedical Imaging (ISBI 2018 ...	17	2018
Automatic bone segmentation in ultrasound images using local phase features and dynamic programming R Jia, SJ Mellon, S Hansjee, AP Monk, DW Murray, JA Noble 2016 IEEE 13th international symposium on biomedical imaging (ISBI), 1005-1008	17	2016
Quantification of ultrasonic texture intra-heterogeneity via volumetric stochastic modeling for tissue characterization OS Al-Kadi, DYF Chung, RC Carlisle, CC Coussios, JA Noble Medical image analysis 21 (1), 59-71	17	2015

TITLE	CITED BY	YEAR
<p>Searching for structures of interest in an ultrasound video sequence MA Maraci, R Napolitano, A Papageorghiou, JA Noble International Workshop on Machine Learning in Medical Imaging, 133-140</p>	17	2014
<p>The AutoQual ultrasound elastography method for quantitative assessment of lateral strain in post-rupture Achilles tendons PG Brown, J Alsousou, A Cooper, MS Thompson, JA Noble Journal of biomechanics 46 (15), 2695-2700</p>	17	2013
<p>Class-specific regression random forest for accurate extraction of standard planes from 3D echocardiography K Chykeyuk, M Yaqub, JA Noble International MICCAI Workshop on Medical Computer Vision, 53-62</p>	17	2013
<p>Evaluating lesion segmentation on breast sonography as related to lesion type G Pons, J Martí, R Martí, S Ganau, JC Vilanova, JA Noble Journal of Ultrasound in Medicine 32 (9), 1659-1670</p>	17	2013
<p>Spatio-temporal (2D+ T) non-rigid registration of real-time 3D echocardiography and cardiovascular MR image sequences W Zhang, JM Brady, H Becher, JA Noble Physics in Medicine & Biology 56 (5), 1341</p>	17	2011
<p>Image-driven cardiac left ventricle segmentation for the evaluation of multiview fused real-time 3-dimensional echocardiography images K Rajpoot, JA Noble, V Grau, C Szmigielski, H Becher International Conference on Medical Image Computing and Computer-Assisted ...</p>	17	2009
<p>Contrast enhancement and segmentation of ultrasound images: a statistical method G Xiao, JM Brady, AJ Noble, Y Zhang Medical Imaging 2000: Image Processing 3979, 1116-1126</p>	17	2000
<p>Modeling of errors in Nakagami imaging: illustration on breast mass characterization A Larrue, JA Noble Ultrasound in medicine & biology 40 (5), 917-930</p>	16	2014
<p>Automatic detection of local fetal brain structures in ultrasound images M Yaqub, R Napolitano, C Ioannou, AT Papageorghiou, JA Noble 2012 9th IEEE International Symposium on Biomedical Imaging (ISBI), 1555-1558</p>	16	2012
<p>Segmentation of breast cancer masses in ultrasound using radio-frequency signal derived parameters and strain estimates E von Lavante, JA Noble 2008 5th IEEE International Symposium on Biomedical Imaging: From Nano to ...</p>	16	2008
<p>A system for simultaneously measuring contact force, ultrasound, and position information for use in force-based correction of freehand scanning MR Burcher, JA Noble, L Man, M Gooding IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control 52 ...</p>	16	2005
<p>Demarcation of aneurysms using the seed and cull algorithm RA McLaughlin, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...</p>	16	2002

TITLE	CITED BY	YEAR
CAD-based inspection using X-ray stereo A Noble, R Gupta, J Mundy, A Schmitz, R Hartley, W Hoffman Proceedings of 1995 IEEE International Conference on Robotics and Automation ...	16	1995
The INTERGROWTH-21st fetal growth standards: toward the global integration of pregnancy and pediatric care AT Papageorghiou, SH Kennedy, LJ Salomon, DG Altman, EO Ohuma, ... American journal of obstetrics and gynecology 218 (2), S630-S640	15	2018
Temporal HeartNet: towards human-level automatic analysis of fetal cardiac screening video W Huang, CP Bridge, JA Noble, A Zisserman International Conference on Medical Image Computing and Computer-Assisted ...	15	2017
A technique for the estimation of fractional moving blood volume by using three-dimensional power Doppler US GN Stevenson, SL Collins, AW Welsh, LW Impey, JA Noble Radiology 274 (1), 230-237	15	2014
Feature extraction and wall motion classification of 2D stress echocardiography with relevance vector machines K Chykeyuk, DA Clifton, JA Noble 2011 IEEE International Symposium on Biomedical Imaging: From Nano to Macro ...	15	2011
Method of calibration of imaging devices R Gupta, JA Noble, RI Hartley, AM Schmitz US Patent 5,550,376	15	1996
The effect of morphological filters on texture boundary localization JA Noble IEEE transactions on pattern analysis and machine intelligence 18 (5), 554-561	15	1996
An object-oriented approach to template guided visual inspection J Mundy, A Noble, C Marinos, VD Nguyen, A Heller, J Farley, AT Tran Proceedings 1992 IEEE Computer Society Conference on Computer Vision and ...	15	1992
Weakly-supervised convolutional neural networks for multimodal image registration Y Hu, M Modat, E Gibson, W Li, N Ghavami, E Bonmati, G Wang, ... Medical image analysis 49, 1-13	14	2018
Ω-net (omega-net): fully automatic, multi-view cardiac MR detection, orientation, and segmentation with deep neural networks DM Vigneault, W Xie, CY Ho, DA Bluemke, JA Noble Medical image analysis 48, 95-106	14	2018
Automated annotation and quantitative description of ultrasound videos of the fetal heart CP Bridge, C Ioannou, JA Noble Medical image analysis 36, 147-161	14	2017
Regional strain analysis with multidetector CT in a swine cardiomyopathy model: relationship to cardiac MR tagging and myocardial fibrosis MW Tee, S Won, FS Raman, C Yi, DM Vigneault, C Davies-Venn, S Liu, ... Radiology 277 (1), 88-94	14	2015

TITLE	CITED BY	YEAR
Where is my baby? A fast fetal head auto-alignment in 3D-ultrasound R Cuingnet, O Somphone, B Mory, R Prevost, M Yaqub, R Napolitano, ... 2013 IEEE 10th International Symposium on Biomedical Imaging, 768-771	14	2013
Effect of malaria on placental volume measured using three-dimensional ultrasound: a pilot study MJ Rijken, WE Moroski, S Kiricharoen, N Karunkonkowitz, G Stevenson, ... Malaria journal 11 (1), 5	14	2012
Recent advances in biomedical ultrasonic imaging techniques HD Liang, JA Noble, PNT Wells Interface Focus 1 (4), 475-476	14	2011
Determination and display of material properties MJ Kadour, JA Noble US Patent App. 12/452,290	14	2010
Fusing speed and phase information for vascular segmentation in phase contrast MR angiograms ACS Chung, JA Noble, P Summers International Conference on Medical Image Computing and Computer-Assisted ...	14	2000
On computing aspect graphs of smooth shapes from volumetric data A Noble, D Wilson, J Ponce Computer Vision and Image Understanding 66 (2), 179-192	14	1997
Data-driven shape parameterization for segmentation of the right ventricle from 3D+ t echocardiography RV Stebbing, AIL Namburete, R Upton, P Leeson, JA Noble Medical image analysis 21 (1), 29-39	13	2015
Weighted voting in 3d random forest segmentation M Yaqub, P Mahon, MK Javaid, C Cooper, JA Noble Proc. Medical Image Understanding and Analysis, Warwick, UK, 261-266	13	2010
Discrete wavelet diffusion for image denoising K Rajpoot, N Rajpoot, JA Noble International Conference on Image and Signal Processing, 20-28	13	2008
A recursive, stochastic vessel segmentation framework that robustly handles bifurcations K Allen, C Yau, J Noble Proc. Med. Image Underst. and Analysis	13	2008
Fuzzy clustering driven anisotropic diffusion: enhancement and segmentation of cardiac MR images GI Sanchez-Ortiz, A Noble 1998 IEEE Nuclear Science Symposium Conference Record. 1998 IEEE Nuclear ...	13	1998
The satisfactory growth and development at 2 years of age of the INTERGROWTH-21st Fetal Growth Standards cohort support its appropriateness for constructing international standards J Villar, LC Ismail, ES Urias, F Giuliani, EO Ohuma, CG Victora, ... American journal of obstetrics and gynecology 218 (2), S841-S854. e2	12	2018
Breast-lesion segmentation combining B-mode and elastography ultrasound G Pons, J Martí, R Martí, S Ganau, JA Noble Ultrasonic imaging 38 (3), 209-224	12	2016

TITLE	CITED BY	YEAR
Inapplicability of fractional moving blood volume technique to standardize Virtual Organ Computer-aided AnaLysis indices for quantified three-dimensional power Doppler AW Welsh, SL Collins, GN Stevenson, JA Noble, L Impey Ultrasound in Obstetrics & Gynecology 40 (6), 688-692	12	2012
Automated segmentation and alignment of mitotic nuclei for kymograph visualisation S Li, J Wakefield, JA Noble 2011 IEEE International Symposium on Biomedical Imaging: From Nano to Macro ...	12	2011
A novel explicit 2D+ t cyclic shape model applied to echocardiography R Casero, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	12	2008
Spatio-temporal accuracy of ICA for fMRI CF Beckmann, JA Noble, SM Smith Neuroimage 6 (13), 75	12	2001
Images as functions and sets JA Noble Image and Vision computing 10 (1), 19-29	12	1992
Registration of 3D fetal brain US and MRI M Kuklisova-Murgasova, A Cifor, R Napolitano, A Papageorghiou, ... International Conference on Medical Image Computing and Computer-Assisted ...	11	2012
Computational modelling for the embolization of brain arteriovenous malformations P Orłowski, P Summers, JA Noble, J Byrne, Y Ventikos Medical engineering & physics 34 (7), 873-881	11	2012
Slip imaging: reducing ambiguity in breast lesion assessment MJ Kadour, R Adams, R English, V Parulekar, S Christopher, JA Noble Ultrasound in medicine & biology 36 (12), 2027-2035	11	2010
Micro flow patterns on demand using surface-chemistry technology WLW Hau, DW Trau, NJ Sucher, M Wong, Y Zohar Technical Digest. MEMS 2002 IEEE International Conference. Fifteenth IEEE ...	11	2002
Combining ICA and GLM: A hybrid approach to FMRI analysis CF Beckmann, I Tracey, JA Noble, SM Smith	11	2000
Automated LV motion analysis from 3D echocardiography GI Sanchez-Ortiz, JA Noble, GJT Wright, J Feldmar, M Mulet-Parada MIUA, Oxford, UK	11	1999
Detection and characterization of the fetal heartbeat in free-hand ultrasound sweeps with weakly-supervised two-streams convolutional networks Y Gao, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	10	2017
Plane localization in 3-D fetal neurosonography for longitudinal analysis of the developing brain M Yaqub, S Rueda, A Kopuri, P Melo, AT Papageorghiou, PB Sullivan, ... IEEE journal of biomedical and health informatics 20 (4), 1120-1128	10	2015

TITLE	CITED BY	YEAR
Learning to count cells: applications to lens-free imaging of large fields G Flaccavento, V Lempitsky, I Pope, PR Barber, A Zisserman, JA Noble, ... Microscopic Image Analysis with Applications in Biology 1, 3	10	2011
OP10. 09: A novel semi-automated (SA) technique for 3D ultrasound measurement of placental volume GN Stevenson, SL Collins, L Impey, A Noble Ultrasound in Obstetrics & Gynecology 36 (S1), 82-82	10	2010
Ultrasound estimation of breast tissue biomechanical properties using a similarity-based non-linear optimization approach J Li, Y Cui, RE English, J Alison Noble The Journal of Strain Analysis for Engineering Design 44 (5), 363-374	10	2009
Objective quantification of global and regional left ventricular systolic function by endocardial tracking of contrast echocardiographic sequences J Bermejo, J Timperley, RG Odreman, M Mulet, JA Noble, AP Banning, ... International journal of cardiology 124 (1), 47-56	10	2008
Volume reconstruction from sparse 3D ultrasonography MJ Gooding, S Kennedy, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	10	2003
A quick 3D-2D registration method for a wide-range of applications Y Kita, DL Wilson, JA Noble, N Kita Proceedings 15th International Conference on Pattern Recognition. ICPR-2000 ...	10	2000
The effect of Ca²⁺ channel antagonists (cadmium, ω-conotoxin GIVA, and nitrendipine) on the release of angiotensin II from fetal rat brain in vitro AP Gadbut, SA Cash, JA Noble, TR Radice, JA Weyhenmeyer Neuroscience letters 123 (1), 91-94	10	1991
Fully-automated alignment of 3D fetal brain ultrasound to a canonical reference space using multi-task learning AIL Namburete, W Xie, M Yaqub, A Zisserman, JA Noble Medical image analysis 46, 1-14	9	2018
A deep learning solution for automatic fetal neurosonographic diagnostic plane verification using clinical standard constraints M Yaqub, B Kelly, AT Papageorghiou, JA Noble Ultrasound in medicine & biology 43 (12), 2925-2933	9	2017
Automated characterization of the fetal heart in ultrasound images using fully convolutional neural networks V Sundaresan, CP Bridge, C Ioannou, JA Noble 2017 IEEE 14th International Symposium on Biomedical Imaging (ISBI 2017 ...	9	2017
A computer-aided tracking and motion analysis with ultrasound (CAT & MAUS) system for the description of hip joint kinematics R Jia, S Mellon, P Monk, D Murray, JA Noble International journal of computer assisted radiology and surgery 11 (11 ...	9	2016
Object classification in an ultrasound video using LP-SIFT features MA Maraci, R Napolitano, A Papageorghiou, JA Noble International MICCAI Workshop on Medical Computer Vision, 71-81	9	2014

TITLE	CITED BY	YEAR
Endocardial segmentation using structured random forests in 3D echocardiography J Domingos, R Stebbing, J Noble Proceedings MICCAI Challenge on Echocardiographic Three-Dimensional ...	9	2014
Elsevier Trophoblast Research Award Lecture: Searching for an early pregnancy 3-D morphometric ultrasound marker to predict fetal growth restriction SL Collins, GN Stevenson, JA Noble, L Impey Placenta 34, S85-S89	9	2013
Image analysis using machine learning: Anatomical landmarks detection in fetal ultrasound images B Rahmatullah, AT Papageorghiou, JA Noble 2012 IEEE 36th Annual Computer Software and Applications Conference, 354-355	9	2012
Modified Hough transform for left ventricle myocardium segmentation in 3-D echocardiogram images JE McManigle, RV Stebbing, JA Noble 2012 9th IEEE International Symposium on Biomedical Imaging (ISBI), 290-293	9	2012
Ultrasound image segmentation of the fetal abdomen: a semi-supervised patch-based approach A Ciurte, S Rueda, X Bresson, S Nedevschi, AT Papageorghiou, JA Noble, ... Proceedings of Challenge US: Biometric Measurements from Fetal Ultrasound ...	9	2012
The challenges of modern interdisciplinary medical research P Von Roth, BJ Canny, HD Volk, JA Noble, CG Prober, C Perka, GN Duda Nature biotechnology 29 (12), 1145	9	2011
Overlap invariance of cumulative residual entropy measures for multimodal image alignment ND Cahill, JA Schnabel, JA Noble, DJ Hawkes Medical Imaging 2009: Image Processing 7259, 72590I	9	2009
Wall motion classification of stress echocardiography based on combined rest-and-stress data S Mansor, NP Hughes, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	9	2008
Exhaustive detection of manufacturing flaws as abnormalities VD Nguyen, A Noble, J Mundy, J Janning, J Ross Proceedings. 1998 IEEE Computer Society Conference on Computer Vision and ...	9	1998
On reconstructing curved object boundaries from sparse sets of x-ray images S Sullivan, A Noble, J Ponce International Conference on Computer Vision, Virtual Reality, and Robotics ...	9	1995
Fisher vector encoding for detecting objects of interest in ultrasound videos MA Maraci, R Napolitano, A Papageorghiou, JA Noble 2015 IEEE 12th International Symposium on Biomedical Imaging (ISBI), 651-654	8	2015
Difference of Gaussians revolved along elliptical paths for ultrasound fetal head segmentation A Foi, M Maggioni, A Pepe, S Rueda, JA Noble, AT Papageorghiou, ... Computerized Medical Imaging and Graphics 38 (8), 774-784	8	2014

TITLE	CITED BY	YEAR
Quantification of the heterogeneity of prognostic cellular biomarkers in Ewing sarcoma using automated image and random survival forest analysis C Bühnemann, S Li, H Yu, HB White, KL Schäfer, A Lombart-Bosch, ... PloS one 9 (9), e107105	8	2014
A constrained regression forests solution to 3D fetal ultrasound plane localization for longitudinal analysis of brain growth and maturation M Yaqub, A Kopuri, S Rueda, PB Sullivan, K McCormick, JA Noble International Workshop on Machine Learning in Medical Imaging, 109-116	8	2014
An efficient block matching and spectral shift estimation algorithm with applications to ultrasound elastography A DiBattista, JA Noble IEEE transactions on ultrasonics, ferroelectrics, and frequency control 61 ...	8	2014
Volumetric segmentation of key fetal brain structures in 3D ultrasound M Yaqub, R Cuingnet, R Napolitano, D Roundhill, A Papageorghiou, ... International Workshop on Machine Learning in Medical Imaging, 25-32	8	2013
Nakagami-based Adaboost learning framework for detection of anatomical landmarks in 2D fetal neurosonograms AIL Namburete, B Rahmatullah, JA Noble Ann. BMVA 2013 (2), 1-16	8	2013
Towards treatment planning for the embolization of arteriovenous malformations of the brain: intranidal hemodynamics modeling P Orłowski, F Al-Senani, P Summers, J Byrne, JA Noble, Y Ventikos IEEE Transactions on Biomedical Engineering 58 (7), 1994-2001	8	2011
Toward a method for automatic grading of microscope human embryo images E Santos Filho, JA Noble, D Wells 2010 IEEE International Symposium on Biomedical Imaging: From Nano to Macro ...	8	2010
Combining apical and parasternal views to improve motion estimation in real-time 3D echocardiographic sequences V Grau, C Szmigielski, H Becher, JA Noble 2008 5th IEEE International Symposium on Biomedical Imaging: From Nano to ...	8	2008
P4d-7 nonlinear propagation of ultrasound through microbubble clouds: A novel numerical implementation K Hibbs, JM Mari, E Stride, RJ Eckersley, A Noble, MX Tang 2007 IEEE Ultrasonics Symposium Proceedings, 1997-2000	8	2007
On the selection of band-pass quadrature filters D Boukerroui, JA Noble, M Brady Frontiers in robotics research, 69-112	8	2006
Intensity-invariant 2D+ T acoustic boundary detection M Mulet-Parada, JA Noble Proceedings. Workshop on Biomedical Image Analysis (Cat. No. 98EX162), 133-142	8	1998
Production of live offspring with predicted genotypes using PCR-RFLP analysis of polar bodies from mouse oocytes MB Wheeler, JA Noble, VL Jarrell Molecular reproduction and development 40 (3), 267-272	8	1995

TITLE	CITED BY	YEAR
Preterm feeding recommendations are achievable in large-scale research studies LC Ismail, F Giuliani, BA Bhat, D Bishop, AT Papageorghiou, R Ochieng, ... BMC Nutrition 2 (1), 9	7	2016
Object localisation in fetal ultrasound images using invariant features CP Bridge, JA Noble 2015 IEEE 12th International Symposium on Biomedical Imaging (ISBI), 156-159	7	2015
Delineating anatomical boundaries using the boundary fragment model RV Stebbing, JA Noble Medical image analysis 17 (8), 1123-1136	7	2013
A pilot study to evaluate assisted freehand ultrasound elasticity imaging in the sizing of early breast cancer: a comparison of B-mode and AFUSON elasticity ultrasound with ... RE English, J Li, AJC Parker, D Roskell, RF Adams, V Parulekar, ... The British journal of radiology 84 (1007), 1011-1019	7	2011
Surface area measurement using rendered three-dimensional ultrasound imaging: an in-vitro phantom study C Ioannou, I Sarris, MK Yaqub, JA Noble, MK Javaid, AT Papageorghiou Ultrasound in Obstetrics & Gynecology 38 (4), 445-449	7	2011
Simultaneous lesion segmentation and bias correction in breast ultrasound images G Pons, J Martí, R Martí, JA Noble Iberian Conference on Pattern Recognition and Image Analysis, 692-699	7	2011
The effect of attenuation coefficient on radiation force impulse monitoring of thermal lesions C Haw, M Arora, CC Coussious, A Noble AIP Conference Proceedings 1215 (1), 66-73	7	2010
Ultrasound phase velocities in SonoVue™ as a function of pressure and bubble concentration K Hibbs, RJ Eckersley, A Noble, MX Tang 2009 IEEE International Ultrasonics Symposium, 1829-1832	7	2009
Inversion elasticity reconstruction of soft tissue using split-and-merge strategy from strain map of ultrasound image sequence J Li, A Noble, L Han, M Burcher IEEE Symposium on Ultrasonics, 2003 2, 1927-1930	7	2003
Genes, zymogens, and activation cascades of yeast vacuolar proteases EW Jones, CA Woolford, CM Moehle, JA Noble, MA Innis Cellular Proteases and Control Mechanisms: Proceedings of a Glaxo-UCLA ...	7	1989
Quality control of ultrasound for fetal biometry: results from the INTERGROWTH-21st Project A Cavallaro, ST Ash, R Napolitano, S Wanyonyi, EO Ohuma, M Molloholli, ... Ultrasound in Obstetrics & Gynecology 52 (3), 332-339	6	2018
Automated 3D ultrasound biometry planes extraction for first trimester fetal assessment H Ryou, M Yaqub, A Cavallaro, F Roseman, A Papageorghiou, JA Noble International Workshop on Machine Learning in Medical Imaging, 196-204	6	2016

TITLE	CITED BY	YEAR
Heterogeneous tissue characterization using ultrasound: a comparison of fractal analysis backscatter models on liver tumors OS Al-Kadi, DYF Chung, CC Coussios, JA Noble Ultrasound in medicine & biology 42 (7), 1612-1626	6	2016
Structured random forests for myocardium delineation in 3D echocardiography JS Domingos, RV Stebbing, P Leeson, JA Noble International Workshop on Machine Learning in Medical Imaging, 215-222	6	2014
Towards 3D registration of fetal brain MRI and ultrasound M Kuklisova-Murgasova, G Quaghebeur, JV Hajnal, JA Noble, ... 2012 9th IEEE International Symposium on Biomedical Imaging (ISBI), 346-349	6	2012
Efficient volumetric segmentation using 3D fast-weighted random forests M Yaqub, K Javaid, C Cooper, A Noble MICCAI Workshop on Machine Learning in Medical Imaging, Toronto, Canada, 1-8	6	2011
Multicontrast MRI registration of carotid arteries in atherosclerotic and normal subjects L Biasioli, JA Noble, MD Robson Medical Imaging 2010: Image Processing 7623, 76232N	6	2010
Improving boundary definition for 3D ultrasound quantification of fetal femur M Yaqub, C Ioannou, A Papageorghiou, K Javaid, C Cooper, A Noble Proc Med Image Understand Anal, 89-94	6	2010
A model-based displacement outlier removal algorithm for ultrasonic temperature estimation G Ye, JA Noble, PP Smith, C Hsieh 2008 IEEE Ultrasonics Symposium, 2080-2083	6	2008
A passive array technique for cavitation mapping during HIFU treatment M Gyöngy, M Arora, A Noble, CC Coussios The Journal of the Acoustical Society of America 123 (5), 3223-3223	6	2008
Estimating cerebral blood flow from a rotational angiographic system AA Appaji, JA Noble 3rd IEEE International Symposium on Biomedical Imaging: Nano to Macro, 2006 ...	6	2006
Motion-guided anisotropic filtering of ultrasound sequences V Grau, JA Noble 3rd IEEE International Symposium on Biomedical Imaging: Nano to Macro, 2006 ...	6	2006
Automatic planning of the acquisition of cardiac MR images C Jackson, M Robson, J Francis, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	6	2003
Feature enhancement in low quality images with application to echocardiography D Boukerroui, JA Noble, M Brady Biennial International Conference on Information Processing in Medical ...	6 *	2001
3次元血管モデルのX線画像への実時間位置合せ手法 喜多泰代 電子情報通信学会論文誌 D 83 (1), 254-262	6	2000

TITLE	CITED BY	YEAR
Toward template-based tolerancing from a Bayesian viewpoint A Noble, J Mundy Proceedings of IEEE Conference on Computer Vision and Pattern Recognition ...	6	1993
A multielectrode catheter for simultaneous pacing and registration of endocardial monophasic action potential SMC Hardman, GE Young, T Walker, WA Biggs, MIM Seed, A Noble Erop JCPE 2, 75-82	6	1991
Learning Spatio-Temporal Aggregation for Fetal Heart Analysis in Ultrasound Video A Patra, W Huang, JA Noble Deep Learning in Medical Image Analysis and Multimodal Learning for Clinical ...	5	2017
Reflections on ultrasound image analysis JA Noble Medical image analysis 33, 33-37	5	2016
Local phase-based fast ray features for automatic left ventricle apical view detection in 3D echocardiography JS Domingos, E Lima, P Leeson, JA Noble International MICCAI Workshop on Medical Computer Vision, 119-129	5	2013
Controlled motion strain measurement using lateral speckle tracking in Achilles tendons during healing P Brown, J Alsousou, M Thompson, A Noble 2012 9th IEEE International Symposium on Biomedical Imaging (ISBI), 1104-1107	5	2012
Interpreting edge information for improved endocardium delineation in echocardiograms RV Stebbing, JE McManigle, JA Noble 2012 9th IEEE International Symposium on Biomedical Imaging (ISBI), 238-241	5	2012
Regularised feature-based fuzzy connectedness segmentation of ultrasound images for fetal soft tissue quantification across gestation S Rueda, C Knight, AT Papageorghiou, JA Noble 2012 9th IEEE International Symposium on Biomedical Imaging (ISBI), 1323-1326	5	2012
Learning optical flow propagation strategies using random forests for fast segmentation in dynamic 2D & 3D echocardiography M Verhoek, M Yaqub, J McManigle, JA Noble International Workshop on Machine Learning in Medical Imaging, 75-82	5	2011
Surface parameterisation of the utero/placental interface using 3D power Doppler ultrasound GN Stevenson, SL Collins, L Impey, JA Noble 2011 IEEE International Symposium on Biomedical Imaging: From Nano to Macro ...	5	2011
Interpreting ultrasound elastography: image registration of breast cancer ultrasound elastography to histopathology images B Chuang, A Myronenko, R English, A Noble 2010 IEEE International Symposium on Biomedical Imaging: From Nano to Macro ...	5	2010
Improving the contrast of breast cancer masses in ultrasound using an autoregressive model based filter E Von Lavante, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	5	2007

TITLE	CITED BY	YEAR
<p>Fast fluid registration with Dirichlet boundary conditions: a transform-based approach ND Cahill, JA Noble, DJ Hawkes, LA Ray 2007 4th IEEE International Symposium on Biomedical Imaging: From Nano to ...</p>	5	2007
<p>Tissue perfusion diagnostic classification using a spatio-temporal analysis of contrast ultrasound image sequences Q Williams, JA Noble, A Ehlgren, H Becher Biennial International Conference on Information Processing in Medical ...</p>	5	2005
<p>A spatio-temporal analysis of contrast ultrasound image sequences for assessment of tissue perfusion QR Williams, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...</p>	5	2004
<p>Evaluating the client side approach and the server side approach to the WWW and DBMSs integration W Ng Proceedings of the 9th International Database Workshop, Heterogeneous and ...</p>	5	1999
<p>INTERNATIONAL-CONFERENCE ON HEAVY DOPING AND THE METAL-INSULATOR TRANSITION IN SEMICONDUCTORS-FOREWORD PT Landsberg Solid-State Electronics 28 (1-2), R5-R5</p>	5	1985
<p>Adversarial deformation regularization for training image registration neural networks Y Hu, E Gibson, N Ghavami, E Bonmati, CM Moore, M Emberton, ... International Conference on Medical Image Computing and Computer-Assisted ...</p>	4	2018
<p>Quantification of cardiac bull's-eye map based on principal strain analysis for myocardial wall motion assessment in stress echocardiography HA Omar, JS Domingos, A Patra, R Upton, P Leeson, JA Noble 2018 IEEE 15th International Symposium on Biomedical Imaging (ISBI 2018 ...</p>	4	2018
<p>Protocol and quality assurance for carotid imaging in 100,000 participants of UK Biobank: development and assessment S Coffey, AJ Lewandowski, S Garratt, R Meijer, S Lynum, R Bedi, ... European journal of preventive cardiology 24 (17), 1799-1806</p>	4	2017
<p>Intraoperative organ motion models with an ensemble of conditional generative adversarial networks Y Hu, E Gibson, T Vercauteren, HU Ahmed, M Emberton, CM Moore, ... International Conference on Medical Image Computing and Computer-Assisted ...</p>	4	2017
<p>Weakly supervised learning of placental ultrasound images with residual networks H Qi, S Collins, A Noble Annual Conference on Medical Image Understanding and Analysis, 98-108</p>	4	2017
<p>Feature tracking cardiac magnetic resonance via deep learning and spline optimization DM Vigneault, W Xie, DA Bluemke, JA Noble International Conference on Functional Imaging and Modeling of the Heart ...</p>	4	2017

TITLE	CITED BY	YEAR
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 SL Collins, AW Welsh, L Impey, JA Noble, GN Stevenson PloS one 12 (6), e0178675	4	2017
"3D fusion" echocardiography improves 3D left ventricular assessment: Comparison with 2D contrast echocardiography D Augustine, M Yaqub, C Szmigielski, E Lima, SE Petersen, H Becher, ... Echocardiography 32 (2), 302-309	4	2015
Why is designing for developing countries more challenging? Modelling the product design domain for medical devices JHM Bergmann, A Noble, M Thompson Procedia Manufacturing 3, 5693-5698	4	2015
Predicting fetal neurodevelopmental age from ultrasound images AIL Namburete, M Yaqub, B Kemp, AT Papageorghiou, JA Noble International conference on medical image computing and computer-assisted ...	4	2014
Oriented feature-based coupled ellipse fitting for soft tissue quantification in ultrasound images S Rueda, CL Knight, AT Papageorghiou, JA Noble 2013 IEEE 10th International Symposium on Biomedical Imaging, 1014-1017	4	2013
Local Phase-Based Fuzzy Connectedness Segmentation of Ultrasound Images. S Rueda, CL Knight, A Papageorghiou, JA Noble MIUA, 331-336	4	2011
Spatiotemporal Bayesian cell population tracking and analysis with lineage construction LMA Beaumont, J Wakefield, JA Noble 2008 5th IEEE International Symposium on Biomedical Imaging: From Nano to ...	4	2008
Model-based ultrasonic temperature estimation for monitoring HIFU therapy G Ye University of Oxford	4	2008
A model based approach to monitor temperature during hifu thermal therapy G Ye, PP Smith, JA Noble, F Mayia AIP Conference Proceedings 911 (1), 258-264	4	2007
High resolution segmentation of mr images of mouse heart chambers based on a partial-pixel effect and em algorithm X Ye, JA Noble Proceedings IEEE International Symposium on Biomedical Imaging, 257-260	4	2002
3D vascular segmentation using MRA statistics and velocity field information in PC-MRA ACS Chung, JA Noble, M Brady, P Summers Biennial International Conference on Information Processing in Medical ...	4	2001
Left Ventricular Strain Is Abnormal in Preclinical and Overt Hypertrophic Cardiomyopathy: Cardiac MR Feature Tracking DM Vigneault, E Yang, PJ Jensen, MW Tee, H Farhad, L Chu, JA Noble, ... Radiology 290 (3), 640-648	3	2018

TITLE	CITED BY	YEAR
<p>SonoEyeNet: Standardized fetal ultrasound plane detection informed by eye tracking Y Cai, H Sharma, P Chatelain, JA Noble 2018 IEEE 15th International Symposium on Biomedical Imaging (ISBI 2018 ...</p>	3	2018
<p>CAT & MAUS: A novel system for true dynamic motion measurement of underlying bony structures with compensation for soft tissue movement R Jia, P Monk, D Murray, JA Noble, S Mellon Journal of biomechanics 62, 156-164</p>	3	2017
<p>Initial study for the investigation of breast tumour response with classification algorithms using a microwave radar prototype RC Conceição, D Byrne, JA Noble, I Craddock 2016 10th European Conference on Antennas and Propagation (EuCAP), 1-2</p>	3	2016
<p>Greater trochanter tracking in ultrasound imaging during gait R Jia, AP Monk, DW Murray, SJ Mellon, JA Noble 2015 IEEE 12th International Symposium on Biomedical Imaging (ISBI), 260-263</p>	3	2015
<p>Diagnostic Plane Extraction from 3D Parametric Surface of the Fetal Cranium. AIL Namburete, RV Stebbing, JA Noble MIUA, 27-32</p>	3	2014
<p>Ultrasound image segmentation using feature asymmetry and shape guided live wire TM Rackham, S Rueda, CL Knight, JA Noble Medical Imaging 2013: Image Processing 8669, 86690P</p>	3	2013
<p>Inapplicability of the Fractional Moving Blood Volume (FMBV) technique to standardise VOCAL indices for quantified power Doppler A Welsh, S Collins, G Stevenson, J Noble, L Impey, L Impey, AW Welsh, ... Ultrasound in Obstetrics & Gynecology: The Official Journal of the ...</p>	3	2012
<p>Nakagami-based choroid plexus detection in fetal ultrasound images using adaboost A Namburete, B Rahmatullah, JA Noble Proc. of the Medical Image Understanding and Analysis, 31-36</p>	3	2012
<p>Tramline and NP windows estimation for enhanced unsupervised retinal vessel segmentation K Allen, N Joshi, JA Noble 2011 IEEE International Symposium on Biomedical Imaging: From Nano to Macro ...</p>	3	2011
<p>Segmentation of cell clumps for quantitative analysis S Li, C Buehmann, B Hassan, JA Noble 2010 Annual International Conference of the IEEE Engineering in Medicine and ...</p>	3	2010
<p>Extending the quadratic taxonomy of regularizers for nonparametric registration ND Cahill, JA Noble, DJ Hawkes Medical Imaging 2010: Image Processing 7623, 76230B</p>	3	2010
<p>Substrate evaluation for a microbeam endstation using unstained cell imaging G Flaccavento, M Folkard, JA Noble, KM Prise, B Vojnovic Applied radiation and isotopes 67 (3), 460-463</p>	3	2009

TITLE	CITED BY	YEAR
<p>Investigating implicit shape representations for alignment of livers from serial CT examinations</p> <p>ND Cahill, G Vesom, L Gorelick, J Brady, JA Noble, JM Brady 2008 5th IEEE International Symposium on Biomedical Imaging: From Nano to ...</p>	3	2008
<p>3D freehand echocardiography for automatic left ventricle reconstruction and analysis based on multiple acoustic windows</p> <p>X Ye, JA Noble, J Declerck International Conference on Medical Image Computing and Computer-Assisted ...</p>	3	2001
<p>Impact of Image Processing Operations on MR Noise Distributions</p> <p>P Summers, ACS Chung, JA Noble Proc. of 8th ISMRM</p>	3	2000
<p>Automatically finding optimal working projections for the endovascular coiling of intracranial aneurysms</p> <p>D Wilson, JA Noble, D Royston, J Byrne International Conference on Medical Image Computing and Computer-Assisted ...</p>	3	1998
<p>Phenotypic analysis of proteinase A mutants</p> <p>CA Woodford, JA Noble, JD Garman, MF Tam, MA Innis, EW Jones J Biol Chem 268, 8990-8998</p>	3	1993
<p>Robust regression of brain maturation from 3d fetal neurosonography using crns</p> <p>AIL Namburete, W Xie, JA Noble Fetal, Infant and Ophthalmic Medical Image Analysis, 73-80</p>	2	2017
<p>An image processing technique for the visualization and quantification of blood flow entering the placenta using 3D power Doppler Ultrasound (PD-US)</p> <p>G Stevenson, A Welsh, L Impey, JA Noble, S Collins Elsevier</p>	2	2016
<p>An approach to the symbolic representation of brain arteriovenous malformations for management and treatment planning</p> <p>P Orłowski, I Mahmud, M Kamran, P Summers, A Noble, Y Ventikos, ... Neuroradiology 56 (3), 195-209</p>	2	2014
<p>Understanding, Modeling and Detecting Brain Tumors: Graphical Models and Concurrent Segmentation/Registration methods</p> <p>S Parisot Ecole Centrale Paris</p>	2	2013
<p>Novel context rich LoCo and GloCo features with local and global shape constraints for segmentation of 3D echocardiograms with random forests</p> <p>K Chykeyuk, M Yaqub, JA Noble International MICCAI Workshop on Medical Computer Vision, 59-69</p>	2	2012
<p>OP17. 05: Fetal arm fat: an in utero marker of body composition?</p> <p>CL Knight, S Rueda, JA Noble, AT Papageorghiou Ultrasound in Obstetrics & Gynecology 40 (S1), 106-106</p>	2	2012
<p>OP26. 08: Automated standard plane selection from fetal abdominal ultrasound volumes using a machine learning algorithm</p> <p>B Rahmatullah, I Sarris, JA Noble, AT Papageorghiou Ultrasound in Obstetrics & Gynecology 40 (S1), 134-135</p>	2	2012

TITLE	CITED BY	YEAR
OC18. 03: An image processing technique for 3-D fractional moving blood volume (FMBV) estimation using power Doppler ultrasound (PD-US) GN Stevenson, SL Collins, AW Welsh, LW Impey, JA Noble Ultrasound in Obstetrics & Gynecology 40 (S1), 37-37	2	2012
Improved Nakagami imaging using a combined estimator A Larrue, JA Noble 2012 9th IEEE International Symposium on Biomedical Imaging (ISBI), 1335-1338	2	2012
Fetal Head Detection on Images from a Low-Cost Portable USB Ultrasound Device MA Maraci, R Napolitano, A Papageorghiou, JA Noble IEEE Transactions on Biomedical Engineering	2	2012
A novel local-phase method of automatic atlas construction in fetal ultrasound S Fathima, S Rueda, A Papageorghiou, JA Noble Medical Imaging 2011: Image Processing 7962, 79621A	2	2011
A fast and robust 3D ultrasound strain imaging algorithm for freehand scanning A Di Battista, JA Noble 2011 IEEE International Symposium on Biomedical Imaging: From Nano to Macro ...	2	2011
OP10. 03: Fetal femur volume measurement using fusion of multiple three-dimensional ultrasound image sets: a pilot study C Ioannou, M Yaqub, A Noble, K Javaid, A Papageorghiou Ultrasound in Obstetrics & Gynecology 36 (S1), 80-80	2	2010
Functional Imaging and Modeling of the Heart: 5th International Conference, FIMH 2009 Nice, France, June 3-5, 2009 Proceedings N Ayache, H Delingette, M Sermesant Springer	2	2009
four Dimensional Fusion Echocardiography Improves Contrast to Noise Ratio, Image Quality and Completeness of Three Dimensional Datasets: p2-02-Moderated Session 3 CA Szmigielski, K Rajpoot, V Grau, C Holloway, SG Myerson, AJ Noble, ... Journal of the American Society of Echocardiography 22 (5), 569	2	2009
Probabilistic models for shapes as continuous curves JG Kim, JA Noble, JM Brady Journal of Mathematical Imaging and Vision 33 (1), 39-65	2	2009
Image-based simulation of brain arteriovenous malformation hemodynamics P Orłowski, JA Noble, Y Ventikos, J Byrne, P Summers 2008 5th IEEE International Symposium on Biomedical Imaging: From Nano to ...	2	2008
Left ventricle functional analysis in 2D+ t contrast echocardiography within an atlas-based deformable template model framework RC Canas Oxford University, UK	2	2008
Keynote speaker, 'Contribute, Communicate, Collaborate' , AUC national conference, 23-26	2	2007

TITLE	CITED BY	YEAR
Regional Left Ventricular Wall Motion Analysis using Hidden Markov Models S Mansor, JA Noble, NP Hughes Proceedings of Medical Image Understanding and Analysis, Wales, United ...	2	2007
Examining numerical solutions of the discrete Navier-Lamé equations for nonrigid image registration N Cahill, J Noble, D Hawkes Proceedings of the 2006 IEEE Western New York Image Processing Workshop	2	2006
Estimating a parametric model of temperature distribution from an ultrasound image sequence during HIFU therapy G Ye, JA Noble, PP Smith 3rd IEEE International Symposium on Biomedical Imaging: Nano to Macro, 2006 ...	2	2006
Direct optical mapping signal synthesis over a geometrically accurate ventricular model MJ Bishop, B Rodriguez, JC Eason, JP Whiteley, JA Noble, N Trayanova, ... Heart Rhythm 2 (5), S220	2	2005
Measurement of the speed of sound in follicular fluid MJ Gooding, D Barber, SH Kennedy, JA Noble Human Reproduction 20 (2), 497-500	2	2005
Displacement and strain estimation of breast tissue using multicompressed ultrasound RF signals Y Cui, J Li, MJ Kadour, JA Noble Medical Images and Signals IRC, 5	2	2005
Quantitative reconstructive 3D echocardiography in mice D Dawson, CA Lygate, XJ Ye, M Burcher, J Saunders, AP Banning, ...	2	2002
Registration--Similarity Measures-A Comparison of 2D-3D Intensity-Based Registration and Feature-Based Registration for Neurointerventions RA McLaughlin, J Hipwell, DJ Hawkes, JA Noble, JV Byrne, T Cox Lecture Notes in Computer Science 2489, 517-524	2	2002
Non-rigid registration in 3D free-hand ultrasound imaging of the breast G Xiao, M Brady, A Noble, M Burcher, R English International Congress Series, 1199-1200	2	2001
Three-dimensional vascular segmentation using MRA statistics and velocity field information in phase contrast MRA ACS Chung, JA Noble, P Summers, M Brady IPMI01, 461-467	2	2001
Automated 3D echocardiography analysis compared with manual delineations and MUGA GJT Wright, JA Noble Medical Image Understanding and Analysis (MIUA'01), 37-40	2	2001
Nicholas Ayache J Duncan, I Strobant, C Melolting, M Brady, T Kanade, D Metaxas, ... Medical Image Analysis: Progress over Decades and the Challenges Ahead 22 (1 ...	2	2000

TITLE	CITED BY	YEAR
Endocardial tracking of acoustic quantification and contrast power-Doppler echocardiographic images: Clinical validation against cine-MRI and manual segmentation J Bermejo, M Mulet, C Moreyra, J Feldmar, JA Noble, ... Circulation 100 (18)	2	1999
Numerical simulation of turbulent buoyant jets JHW Lee, C Kuang Proc. 4th Asia-Pacific Conference on Computational Mechanics	2	1999
Adaptive multiresolution detection of the epicardial wall in 2d cardiac ultrasound C Behrenbruch, M Brady, G Jacob, J Noble Proc. on Medical Image Understanding and Analysis, 98-93	2	1999
Uncalibrated X-Ray Stereo Reconstruction. D Talmage, JA Noble, A Zisserman BMVC, 1-10	2	1995
Quantitative measurement of manufactured diamond shape R Hartley, A Noble, J Grande, J Liu European Conference on Computer Vision, 433-440	2	1994
Special issue on machine learning in medical imaging. L Wang, Y Shi, HI Suk, A Noble, G Hamarneh Computerized medical imaging and graphics: the official journal of the ...	1	2019
Neurodevelopmental milestones and associated behaviours are similar among healthy children across diverse geographical locations J Villar, M Fernandes, M Purwar, E Staines-Urias, P Di Nicola, LC Ismail, ... Nature communications 10 (1), 511	1	2019
Multi-task SonoEyeNet: Detection of Fetal Standardized Planes Assisted by Generated Sonographer Attention Maps Y Cai, H Sharma, P Chatelain, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...	1	2018
Evaluation of Gaze Tracking Calibration for Longitudinal Biomedical Imaging Studies P Chatelain, H Sharma, L Drukker, AT Papageorghiou, JA Noble IEEE transactions on cybernetics, 1-11	1	2018
Improving Visual Detection of Wall Motion Abnormality with Echocardiographic Image Enhancing Methods HA Omar, JS Domingos, A Patra, P Leeson, JA Noble 2018 40th Annual International Conference of the IEEE Engineering in ...	1	2018
VP-Nets: Efficient automatic localization of key brain structures in 3D fetal neurosonography R Huang, W Xie, JA Noble Medical image analysis 47, 127-139	1	2018
Learning to segment key clinical anatomical structures in fetal neurosonography informed by a region-based descriptor R Huang, A Namburete, A Noble Journal of Medical Imaging 5 (1), 014007	1	2018

TITLE	CITED BY	YEAR
Localizing Cardiac Structures in Fetal Heart Ultrasound Video CP Bridge, C Ioannou, JA Noble International Workshop on Machine Learning in Medical Imaging, 247-255	1	2017
HTX: a tool for the exploration and visualization of high-throughput image assays C Arteta, V Lempitsky, J Zak, X Lu, A Noble, A Zisserman BioRxiv, 204016	1	2017
An eye-tracking inspired method for standardised plane extraction from fetal abdominal ultrasound volumes M Ahmed, JA Noble 2016 IEEE 13th International Symposium on Biomedical Imaging (ISBI), 1084-1087	1	2016
Fetal ultrasound image classification using a bag-of-words model trained on sonographers' eye movements M Ahmed, JA Noble Procedia Computer Science 90, 157-162	1	2016
Towards quantifying the impact of cell boundary estimation on morphometric analysis for phenotypic screening TA Nketia, JA Noble, J Rittscher 2015 IEEE 12th International Symposium on Biomedical Imaging (ISBI), 781-784	1	2015
Quantification of the Heterogeneity of Prognostic Cellular Biomarkers in Ewing Sarcoma Using Automated Image and Random Survival Forest Analysis C Buhnemann, S Li, H Yu, HB White, KL Schafer, A Llombart-Bosch, ... PLoS One 9 (9)	1	2014
P13. 20: Fetal limb fat and lean volume reference ranges from an optimally healthy population CL Knight, M Ahmed, K Edwards, V Donadono, G Parry, S Rueda, ... Ultrasound in Obstetrics & Gynecology 44 (S1), 259-259	1	2014
Model-based segmentation methods for analysis of 2D and 3D ultrasound images and sequences R Stebbing University of Oxford	1	2014
Anatomical object detection in fetal ultrasound: Computer-expert agreements B Rahmatullah, JA Noble International Conference on Biomedical Informatics and Technology, 207-218	1	2013
OP17. 04: Fetal arm fat: development throughout pregnancy in selectively screened optimally healthy patients CL Knight, S Rueda, JA Noble, AT Papageorghiou Ultrasound in Obstetrics & Gynecology 40 (S1), 105-106	1	2012
P28. 09: Novel automatic method for measuring fetal arm adipose tissue in 2D ultrasound images across gestation S Rueda, CL Knight, AT Papageorghiou, JA Noble Ultrasound in Obstetrics & Gynecology 40 (S1), 281-281	1	2012

TITLE	CITED BY	YEAR
OP22. 01: Utero-placental interface vascularity in early pregnancy estimated by 3D fractional moving blood volume (3D FMBV) predicts fetal growth restriction SL Collins, GN Stevenson, AW Welsh, JA Noble, LW Impey Ultrasound in Obstetrics & Gynecology 40 (S1), 119-119	1	2012
OP26. 06: Automatic detection of fetal brain structures from ultrasound volumes R Napolitano, M Yaqub, C Ioannou, CL Knight, JA Noble, ... Ultrasound in Obstetrics & Gynecology 40 (S1), 134-134	1	2012
Image analysis of the human fetus and newborn—Developing new clinical tools for perinatal care JA Noble 2012 9th IEEE International Symposium on Biomedical Imaging (ISBI), 490-492	1	2012
Lesion segmentation and bias correction in breast ultrasound B-mode images including elastography information G Pons, J Martí, R Martí, M Cabezas, A Di Battista, JA Noble Medical Imaging 2012: Image Processing 8314, 83141E	1	2012
Ultrasound strain imaging measurement in Achilles tendons as a measure of healing from rupture with controlled ankle motion PG Brown, J Alsousou, M Thompson, A Noble Journal of Biomechanics, S402	1	2012
Use of ultrasound elasticity imaging to monitor the response of a primary breast cancer to neoadjuvant chemotherapy in one patient in a pilot study RE English, A Di Battista, RF Adams, L Winter, JA Noble Breast Cancer Research 13 (1), P43	1	2011
Size is everything: searching for an early ultrasound marker which predicts the term small for gestational age (SGA) baby S Collins, G Stevenson, A Noble, L Impey	1	2011
Elastic modulus imaging using optical flow and image registration R Martí, A Noble 2010 IEEE International Conference on Image Processing, 605-608	1	2010
Accounting for changing overlap in variational image registration ND Cahill, JA Noble, DJ Hawkes 2010 IEEE International Symposium on Biomedical Imaging: From Nano to Macro ...	1	2010
Characterization of anatomical shape based on random walk hitting times G Vesom, N Cahill, L Gorelick, A Noble 2nd MICCAI Workshop on Mathematical Foundations of Computational Anatomy ...	1	2008
Modelling the dependence of echo strain in temperature from experiments in in-vitro tissues G Ye, P Probert Smith, JA Noble Seventh International Symposium on Therapeutic Ultrasound, Seoul, Korea	1	2007
Cardiology meets image analysis: just an application or can image analysis usefully impact cardiology practice? JA Noble International Workshop on Computer Vision for Biomedical Image Applications ...	1	2005

TITLE	CITED BY	YEAR
Medical Ultrasound-A System for Simultaneously Measuring Contact Force, Ultrasound, and Position Information for Use in Force-Based Correction of Freehand Scanning MR Burcher, JA Noble, L Han, M Gooding IEEE Transactions on Ultrasonics Ferroelectrics and Frequency Control 52 (8 ...	1	2005
The effect of follicle volume measurement on clinical decisions MJ Gooding, D Barber, SH Kennedy, JA Noble Proceedings of Medical Image Understanding and Analysis (MIUA) 2004, 121-124	1	2004
Medical Imaging Research Symposium Modalities Using Non-ionizing Electromagnetic Radiation E Berry, SR Arridge, ADA Maidment, E Claridge, JA Noble, DR Pickens Medical Physics 30 (6)	1	2003
3D Freehand Ultrasound Left Ventricle Reconstruction from Multiple Acoustic Windows X Ye, JA Noble Medical Image Understanding and Analysis Jul, 16-17	1	2001
Bayesian part tolerancing with measurement uncertainty AJ Noble, JL Mundy Neural and Stochastic Methods in Image and Signal Processing II 2032, 280-292	1	1993
Finding two dimensional image structure JA Noble Proceedings of the IEEE Computer Society Workshop on Computer Vision ...	1	1987
CONTRIBUTION OF LEFT ATRIAL CONTRACTION (LAC) TO LEFT VENTRICULAR VOLUME (LVV) IN CONTROL (C) STATE AND IN RESPONSE TO ISOPROTERENOL (I) IN MAN HW Paley, BLUMENTH. J, G Modin, AD Levine, AJ Noble Circulation 38 (4 S 6), V152-&	1	1968
Detecting early response to therapy in liver cancer treatment: 3D metastases segmentation using graph-cuts with a modified prior T Szilágyia, M Verhoeka, JA Noble dx. doi. org/. Detecting early response to therapy in liver cancer treatment ...	1	
Contrastive Fairness in Machine Learning T Chakraborti, A Patra, A Noble arXiv preprint arXiv:1905.07360		2019
Contrastive Algorithmic Fairness: Part 1 (Theory) T Chakraborti, A Patra, A Noble arXiv preprint arXiv:1905.07360		2019
Ultrasound Image Representation Learning by Modeling Sonographer Visual Attention R Droste, Y Cai, H Sharma, P Chatelain, L Drukker, AT Papageorghiou, ... arXiv preprint arXiv:1903.02974		2019
Towards Capturing Sonographic Experience: Cognition-Inspired Ultrasound Video Saliency Prediction R Droste, Y Cai, H Sharma, P Chatelain, A Papageorghiou, J Noble Springer Verlag		2019

TITLE	CITED BY	YEAR
Spatio-temporal partitioning and description of full-length routine fetal anomaly ultrasound scans H Sharma, R Droste, P Chatelain, L Drukker, A Papageorghiou, JA Noble IEEE		2019
Quality improvement programme of ultrasound based fetal anatomy screening using large scale clinical audit M Yaqub, B Kelly, H Stobart, R Napolitano, JA Noble, AT Papageorghiou Ultrasound in Obstetrics & Gynecology		2018
OC05. 01: An AI system to support sonologists during fetal ultrasound anomaly screening M Yaqub, B Kelly, JA Noble, AT Papageorghiou Ultrasound in Obstetrics & Gynecology 52, 9-10		2018
EP02. 08: Exploring the role of a semi-automated ultrasound device in rural Indian antenatal care A Gururaj, S Kennedy, L Hinton, D Praveen, M Ameer, S Dhillon, ... Ultrasound in Obstetrics & Gynecology 52, 198-199		2018
Can Dilated Convolutions Capture Ultrasound Video Dynamics? MA Maraci, W Xie, JA Noble International Workshop on Machine Learning in Medical Imaging, 116-124		2018
Omni-Supervised Learning: Scaling Up to Large Unlabelled Medical Datasets R Huang, JA Noble, AIL Namburete International Conference on Medical Image Computing and Computer-Assisted ...		2018
Automatic Lacunae Localization in Placental Ultrasound Images via Layer Aggregation H Qi, S Collins, JA Noble International Conference on Medical Image Computing and Computer-Assisted ...		2018
SiSSR: Simultaneous subdivision surface registration for the quantification of cardiac function from computed tomography in canines DM Vigneault, A Pourmorteza, ML Thomas, DA Bluemke, JA Noble Medical image analysis 46, 215-228		2018
Automated Visualization and Quantification of Spiral Artery Blood Flow Entering the First-Trimester Placenta, Using 3-D Power Doppler Ultrasound GN Stevenson, JA Noble, AW Welsh, L Impey, SL Collins Ultrasound in medicine & biology 44 (3), 522-531		2018
Deep clinical and biological phenotyping of the preterm birth and small for gestational age syndromes: The INTERBIO-21 st Newborn Case-Control Study protocol SH Kennedy, CG Victora, R Craik, S Ash, FC Barros, HC Barsosio, ... Gates open research 2		2018
Data for paper'Learning to segment key clinical anatomical structures in fetal neurosonography informed by a region-based descriptor' R Huang, A Namburete, A Noble University of Oxford		2018

TITLE	CITED BY	YEAR
Compensation of experimentally induced soft tissue artefact with a combination of optoelectronic motion analysis system and a 2D ultrasound probe S Mellon, R Jia, P Monk, A Noble, D Murray, M Andersen 8th World Congress of Biomechanics		2018
myocardial wall motion assessment in stress echocardiography by quantification of principal strain bulls eye maps: p299 H Omar, A Patra, JS Domingos, R Upton, P Leeson, JA Noble European Heart Journal Cardiovascular Imaging 18, iii64		2017
Machine learning in medical ultrasound to assist clinical diagnosis JA Noble 2017 IEEE International Ultrasonics Symposium (IUS), 1-1		2017
OC06. 01: Development of normal fetal brain structures: international standards based on ultrasound measurements from the INTERGROWTH-21st Project V Donadono, R Napolitano, EO Ohuma, M Molloholli, SZ Wanyonyi, ... Ultrasound in Obstetrics & Gynecology 50, 10-11		2017
P20. 09: The probability of cephalic presentation across pregnancy in the INTERGROWTH-21st fetal growth longitudinal study I Salim, E Staines-Urias, J Villar, DG Altman, JA Noble, E Bertino, ... Ultrasound in Obstetrics & Gynecology 50, 220-221		2017
Deep neural networks in computer vision and biomedical image analysis W Xie University of Oxford		2017
Exploring the role of a semi-automated ultrasound technology in rural Indian antenatal care A Gururaj University of Oxford		2017
Eye tracking to aid fetal ultrasound image analysis M Ahmed University of Oxford		2017
Computer-aided analysis of fetal cardiac ultrasound videos C Bridge University of Oxford		2017
Layer Recurrent Neural Networks W Xie, A Noble, A Zisserman		2016
OP15. 01: Quality improvement programme for the routine anomaly scan using a dedicated quality control platform AT Papageorghiou, R Napolitano, M Yaqub, JA Noble, B Kelly Ultrasound in Obstetrics & Gynecology 48, 97-97		2016
Probabilistic sensor network design J Bergmann, A Noble, M Thompson 2016 IEEE 13th International Conference on Wearable and Implantable Body ...		2016
Ultrasound based gestational age estimation in late pregnancy A Lambert, AT Papageorghiou, B Kemp, W Stones, EO Ohuma, ... Ultrasuoni in Ostetricia e Ginecologia		2016

TITLE	CITED BY	YEAR
<p>Quantification of Ultrasonic Texture heterogeneity via Volumetric Stochastic Modeling for Tissue Characterization</p> <p>OS Al-Kadi, DYF Chung, RC Carlisle, CC Coussios, JA Noble arXiv preprint arXiv:1601.03531</p>		2016
<p>Quantitative analysis of TMA images using computer vision and machine learning approaches</p> <p>H Yu University of Oxford</p>		2016
<p>Towards engineering ultrasound image analysis solutions for resource constrained environments</p> <p>M Maraci University of Oxford</p>		2016
<p>postnatal growth standards for preterm infants: the Preterm Postnatal Follow-up Study of the Intergrowth-21st Project</p> <p>J Villar, F Giuliani, ZA Bhutta, E Bertino, EO Ohuma, LC Ismail, FC Barros, ... Midirs Midwifery Digest 26 (2), 250-251</p>		2016
<p>Globally optimal registration for describing joint kinematics</p> <p>R Jia, S Mellon, P Monk, D Murray, A Noble Procedia Computer Science 90, 188-193</p>		2016
<p>OC11. 02: Fetal limb fat volume: a surrogate marker of body composition</p> <p>CL Knight, S Rueda, M Ahmed, K Edwards, V Donadono, G Parry, ... Ultrasound in Obstetrics & Gynecology 46 (S1), 23-23</p>		2015
<p>OC11. 07: Towards automating the ISUOG "six-step basic ultrasound" scan</p> <p>MA Maraci, C Bridge, JA Noble, C Aye, M Molloholli, R Napolitano, ... Ultrasound in Obstetrics & Gynecology 46 (S1), 25-25</p>		2015
<p>INTERGROWTH-21st: describing optimal fetal growth, newborn size and postnatal growth and development for the improved phenotypic classification of the preterm birth and fetal ...</p> <p>JE Hirst, J Villar, AT Papageorghiou, R Pang, EO Ohuma, CL Ismail, ... BJOG-AN INTERNATIONAL JOURNAL OF OBSTETRICS AND GYNAECOLOGY 122, 394-394</p>		2015
<p>Image analysis of cardiac computed tomography towards regional functional analysis</p> <p>MW Tee University of Oxford</p>		2015
<p>Computer vision and machine learning for microscopy image analysis</p> <p>C Arteta University of Oxford</p>		2015
<p>Machine learning to assess the fetal brain from ultrasound images</p> <p>AIL Namburete University of Oxford</p>		2015
<p>Monitoring human growth and development: a continuum from the womb to the classroom</p> <p>AT Papageorghiou, R Pang, LJ Salomon, A Langer, C Victora, M Purwar, ... Elsevier</p>		2015

TITLE	CITED BY	YEAR
Original Research n Technical Developments A Technique for the Estimation of Fractional Moving Blood Volume by Using Three-dimensional Power Doppler US GN Stevenson, SL Collins, AW Welsh, LW Impey, JA Noble RADIOLOGY 274 (1), 230-237		2015
Oral Abstract session: New insights in ventricular function J Park, N Naksuk, C Thongprayoon, P Gaba, S Sharma, A Rosenbaum, ... European Heart Journal-Cardiovascular Imaging 15 (suppl_2), ii145-ii147		2014
Poster session 2: Thursday 4 December 2014, 08: 30–12: 30 Location: Poster area JS Domingos, DX Augustine, P Leeson, JA Noble, HL Doan, L Boubrit, ... European Heart Journal-Cardiovascular Imaging 15 (suppl_2), ii82-ii108		2014
Oral Abstract session: New insights in ventricular function: Friday 5 December 2014, 14: 00–15: 30 Location: Agora M Guglielmo, C Cefalu', G Savioli, O Mirea, L Fusini, MC Scali, ... European Heart Journal-Cardiovascular Imaging 15 (suppl_2), ii145-ii147		2014
PB. 45. Correlation of perilesional tissue stiffness measured by ultrasound strain elastography with breast density A Di Batista, R English, R Sidebottom, R Adams, L Winter, A Noble, ... Breast Cancer Research 16 (1), P51		2014
19 Quantitative Principal Strain Imaging Of Ruptured Achilles Tendons During Passive Motion PG Brown, J Alsousou, MS Thompson, JA Noble Br J Sports Med 48 (Suppl 2), A12-A13		2014
P22. 03: Searching for structures of interest in an ultrasound video sequence with an application for detection of breech M Maraci, R Napolitano, AT Papageorghiou, JA Noble Ultrasound in Obstetrics & Gynecology 44 (S1), 315-315		2014
OP29. 05: Fetal arm fat: a better marker than thigh fat for nutritional status? CL Knight, M Ahmed, K Edwards, V Donadono, G Parry, S Rueda, ... Ultrasound in Obstetrics & Gynecology 44 (S1), 156-156		2014
P23. 03: Eye tracking as a tool to assess sonographer behaviour when quality-scoring fetal ultrasound images M Ahmed, CL Knight, AT Papageorghiou, JA Noble Ultrasound in Obstetrics & Gynecology 44 (S1), 321-321		2014
OC24. 02: Automated image analysis to estimate gestational age between 18 and 34 weeks using a single 3D brain volume dataset B Kemp, AI Namburete, S Kennedy, JA Noble, AT Papageorghiou Ultrasound in Obstetrics & Gynecology 44 (S1), 56-56		2014
Transformation of a Three-Dimensional Flow Image G Stevenson, S Collins, JA Noble US Patent App. 13/955,603		2014
2D ultrasound elastography as a functional measure of healing of the Achilles tendon in vivo PGM Brown University of Oxford		2014

TITLE	CITED BY	YEAR
Three-dimensional geometric image analysis for interventional electrophysiology JE McManigle University of Oxford		2014
Starmite Swarm J Noble Oxford University Press		2014
Analysis of 3D echocardiography K Chykeyuk University of Oxford		2014
Toward functional imaging of the placenta GN Stevenson		2014
OC05. 04: Fetal arm volumetry: a novel assessment of fetal body composition in the second and third trimester CL Knight, S Rueda, M Ahmed, K Edwards, JA Noble, AT Papageorghiou Ultrasound in Obstetrics & Gynecology 42 (s1), 10-10		2013
OP02. 07: Fetal fat index: a novel technique to assess fetal arm fat CL Knight, S Rueda, JA Noble, AT Papageorghiou Ultrasound in Obstetrics & Gynecology 42 (s1), 52-52		2013
P11. 01: Assessing fetal fractional arm volume using varying numbers of cross-sectional slices M Ahmed, CL Knight, S Rueda, AT Papageorghiou, JA Noble Ultrasound in Obstetrics & Gynecology 42 (s1), 151-152		2013
P08. 16: Systematic thickness analysis of the adipose tissue around the fetal arm across gestation using 2D ultrasound images S Rueda, CL Knight, AT Papageorghiou, JA Noble Ultrasound in Obstetrics & Gynecology 42 (s1), 145-145		2013
P11. 04: Novel automatic coupled ellipse fitting tool for fetal arm adipose tissue quantification in 2D ultrasound images across gestation S Rueda, CL Knight, JA Noble, AT Papageorghiou Ultrasound in Obstetrics & Gynecology 42 (s1), 152-152		2013
Validating ultrasound elastography for functional assessment of tendon AR Cooper, P Brown, JA Noble, MS Thompson		2013
3D fusion echocardiography improves 3D left ventricular assessment: comparison with 2D contrast echocardiography D Augustine, M Yaqub, C Szmigielski, E Lima, S Neubauer, SE Petersen, ... European Heart Journal 34 (suppl_1)		2013
The objectives, design and implementation of the INTERGROWTH-21 J Villar, D Altman, M Purwar, J Noble, H Knight, P Ruyan, L Cheikh Ismail, ...		2013
P11: IMAGING TECHNOLOGIES M Ahmed, CL Knight, S Rueda, AT Papageorghiou, JA Noble Ultrasound in Obstetrics & Gynecology 42 (1), 113-179		2013

TITLE	CITED BY	YEAR
Evaluating lesion segmentation on breast sonography as related to lesion type G Pons Rodríguez, J Martí Bonmatí, R Martí Marly, S Ganau, ... © Journal of Ultrasound in Medicine, 2013, vol. 32, núm. 9, p. 1659-1670		2013
Fusion of 3D Ultrasound Images of the Fetal Femur Improves Boundary Definition and Volume Measurement MK Yaqub, C Ioannou, MK Javaid, C Cooper, AT Papageorghiou, ... Fetal diagnosis and therapy 34 (3), 158-165		2013
1179 THE INTERGROWTH-21ST PROJECT SH Kennedy, DG Altman, M Purwar, JA Noble, P Chamberlain, HE Knight, ... International Journal of Gynecology & Obstetrics 119		2012
1286 DEVELOPING A NEW, INTERNATIONAL EQUATION TO ESTIMATE GESTATIONAL AGE BY EARLY ULTRASOUND AT Papageorghiou, DG Altman, EO Ohuma, E Bertino, MG Gravett, ... International Journal of Gynecology & Obstetrics 119, S233-S234		2012
1179 THE INTERGROWTH-21ST PROJECT: DESIGN, STANDARDISATION AND QUALITY CONTROL STRATEGIES SH Kennedy, DG Altman, M Purwar, JA Noble, P Chamberlain, HE Knight, ... International Journal of Gynecology & Obstetrics 119, S205-S205		2012
I379 EARLY FETAL GROWTH ACROSS DIFFERENT GEOGRAPHICAL REGIONS: ARE FETUSES SIMILAR IN THE 1ST TRIMESTER? J Villar, AT Papageorghiou, EO Ohuma, DG Altman, MG Gravett, ... International Journal of Gynecology & Obstetrics 119, S255-S256		2012
I029 A PHENOTYPIC CLASSIFICATION FOR THE PRETERM BIRTH SYNDROME: RESULTS FROM THE INTERGROWTH-21ST PROJECT FC Barros, C Victora, AT Papageorghiou, EO Ohuma, E Bertino, ... International Journal of Gynecology & Obstetrics 119, S168-S168		2012
TR AWARD LECTURE-SIZE IS EVERYTHING: THE SEARCH FOR A 3-D MORPHOMETRIC MARKER TO PREDICT FETAL GROWTH RESTRICTION S Collins, G Stevenson, A Noble, L Impey		2012
OP31. 08: Intima media thickness and lipid profile at delivery in pregnancies complicated by intrauterine growth restriction M Bertin, S Visentin, AP Londero, C Cosma, M Camerin, D Faggian, ... Ultrasound in Obstetrics & Gynecology 40 (S1), 151-151		2012
OP31. 09: Cord blood and post-delivery cytokines, chemokines and neurotrophins in infants affected by fetal growth restriction (FGR) E Mullins, T Prior, K Skogstrand, I Roberts, S Kumar Ultrasound in Obstetrics & Gynecology 40 (S1), 151-151		2012
OP33. 09: The effect of maternal vitamin D concentration on fetal bone C Ioannou, MK Javaid, P Mahon, M Yaqub, JA Noble, NC Harvey, ... Ultrasound in Obstetrics & Gynecology 40 (S1), 156-156		2012
P27. 07: Assessing fetal fractional arm adipose tissue volume using 3D ultrasound: the importance of measuring perpendicular to the humerus M Ahmed, S Rueda, CL Knight, AT Papageorghiou, JA Noble Ultrasound in Obstetrics & Gynecology 40 (S1), 275-276		2012

TITLE	CITED BY	YEAR
P29. 13: A simple method for calculation of the fetal femur volume in 3D ultrasound C Ioannou, I Sarris, M Yaqub, R Napolitano, H Nicholl, JA Noble, ... Ultrasound in Obstetrics & Gynecology 40 (S1), 289-289		2012
P28. 02: Automated fetal biometry image landmark detection for confirming correct image planes: abdominal circumference B Rahmatullah, I Sarris, C Ioannou, CL Knight, JA Noble, ... Ultrasound in Obstetrics & Gynecology 40 (S1), 278-279		2012
Proceedings of Challenge US: Biometric Measurements from Fetal Ultrasound Images ISBI 2012 S Rueda, JA Noble, AT Papageorghiou		2012
FUNCTIONAL ULTRA SOUND ELASTOGRAPHY (FUSE) OF ACHILLES TENDON: DEVELOPING MECHANICAL AND CLINICAL OUTCOME TOOL J Alsousou, J Li, E McNally, M Thompson, A Noble, K Willett Orthopaedic Proceedings 94 (SUPP XXI), 89-89		2012
FUNCTIONAL ULTRA SOUND ELASTOGRAPHY (FUSE) OF ACHILLES TENDON: IS IT THE MISSING LINK BETWEEN BIOMECHANICS AND THE CLINICAL OUTCOMES OF TA TREATMENT? J Alsousou, L Larry, E McNally, A Noble, K Willett Orthopaedic Proceedings 94 (SUPP_XVIII), 53-53		2012
Assessment of obstetric ultrasound images using machine learning B Rahmatullah University of Oxford		2012
Analysis of the function of the chromosomal passenger complex in regulating spindle and central spindle formation in Drosophila. PD Jones, S Li, JA Noble, J Wakefield MOLECULAR BIOLOGY OF THE CELL 23		2012
OP23. 01: Fetal biometry: can offline measurements from 3D volumes substitute real time 2D measurements? I Sarris, J Sande, C Ioannou, A Noble, E Ohuma, A Papageorghiou Ultrasound in Obstetrics & Gynecology 38 (S1), 121-122		2011
OP06. 05: Placental volume in malaria infected pregnancies M Rijken, W Moroski, R McGready, G Stevenson, A Noble, S Kennedy, ... Ultrasound in Obstetrics & Gynecology 38 (S1), 72-73		2011
OP27. 05: The need to standardise Virtual Organ Computer-aided AnaLysis (VOCAL) power Doppler indices to the sub-bloom gain (SBG) level SL Collins, G Stevenson, A Noble, LW Impey, AW Welsh Ultrasound in Obstetrics & Gynecology 38 (S1), 135-135		2011
OP23. 02: A pilot study of automated anatomical landmark detection for quality control purposes in the context of multicentre studies: abdominal circumference B Rahmatullah, I Sarris, A Papageorghiou, A Noble Ultrasound in Obstetrics & Gynecology 38 (S1), 122-122		2011
3D fusion echocardiography improves transoesophageal left ventricular assessment DX Augustine, K Rajpoot, C Biasagianis, H Pavolopoulos, X Jin, ...		2011

TITLE	CITED BY	YEAR
3D fusion echocardiography improves transoesophageal LV assessment K Rajpoot, D Augustine, C Basagiannis, JA Noble, H Becher, P Leeson International Conference on Functional Imaging and Modeling of the Heart ...		2011
Spatio-temporal (2D+ T) non-rigid registration of real-time 3D echocardiography and cardiovascular MR image sequences Z Weiwei, JM Brady, JA Noble, H Becher		2011
Real-Time 3D Fusion Echocardiography (vol 3, pg 682, 2010) C Szmigielski, K Rajpoot, V Grau, SG Myerson, C Holloway, JA Noble, ... JACC-CARDIOVASCULAR IMAGING 4 (3)		2011
Feature extraction and wall motion classification of 2D stress echocardiography with support vector machines K Chykeyuk, DA Clifton, JA Noble Medical Imaging 2011: Computer-Aided Diagnosis 7963, 79630H		2011
Automated image-based recognition and targeted laser transfection techniques for drug development and stem cell research CHW Yapp University of Oxford		2011
Automatic measurements of femoral characteristics using 3D ultrasound images in utero M Yaqub Oxford University, UK		2011
Ultrasound elastography techniques for the therapeutic monitoring of breast cancer A Di Battista		2011
Ultrasound Viscoelastic Imaging of Breast Lesions: A Practical Hybrid Freehand Technique for Data Acquisition A Di Battista, JA Noble, R English ASME 2011 International Mechanical Engineering Congress and Exposition, 697-698		2011
Poster session III Friday 10 December 2010, 08: 30-12: 30 D Guldbrand, O Goetsche, B Eika, N Watanabe, M Taniguchi, T Akagi, ... European Journal of Echocardiography 11 (suppl_2), ii89-ii119		2010
OC11. 05: Surface area measurement using rendered three-dimensional ultrasound imaging: an in vitro phantom study C Ioannou, I Sarris, M Yaqub, A Noble, K Javaid, A Papageorghiou Ultrasound in Obstetrics & Gynecology 36 (S1), 21-21		2010
A malignant breast carcinoma size assessment using multiple orientation axial, lateral, and shear elastographies: the second stage of a pilot study Y Chi, MJ Brady, RE English, J Li, JA Noble International Workshop on Medical Imaging and Virtual Reality, 295-304		2010
THE RELATIONSHIP BETWEEN PLACENTAL VOLUME IN EARLY PREGNANCY, MEASURED USING A NOVEL SEMI-AUTOMATED TECHNIQUE, AND THE SMALL FOR GESTATIONAL AGE (SGA) FETUS SL Collins, GN Stevenson, A Noble, L Impey		2010

TITLE	CITED BY	YEAR
Segmentation of 2D stress echocardiography sequences using rest-based patient-specific prior information AT Zabair, JA Noble 2010 IEEE International Symposium on Biomedical Imaging: From Nano to Macro ...		2010
Poisson-based implicit shape space analysis with application to CT liver segmentation G Vesom University of Oxford		2010
Segmentation and analysis of vascular networks KE Allen University of Oxford		2010
A pilot study to evaluate functional ultrasound elastography (FUSE) in Achilles tendon rupture: developing the rules governing elasticity image interpretation J Alsousou, K Willett, E Mc Nally, L Jumbi, A Noble EUROPEAN JOURNAL OF MEDICAL RESEARCH 14, 156-156		2009
OC18. 03: Assessment of the fetal interventricular septum by real-time three-dimensional echocardiography with live 3D imaging Y Xiong, YM Wah, M Chen, TY Leung, TK Lau Ultrasound in Obstetrics & Gynecology 34 (S1), 34-35		2009
OP33. 07: Dependence of three-dimensional ultrasound fetal cardiac volume measurement on orientation of probe with respect to the heart MJ Gooding, S Mitchell, P Chamberlain, JA Noble, SH Kennedy Ultrasound in Obstetrics & Gynecology 34 (S1), 169-169		2009
OC18. 01: Fusion of multiple four dimensional fetal echocardiography images can improve quality MJ Gooding, K Rajpoot, S Mitchell, P Chamberlain, JA Noble, ... Ultrasound in Obstetrics & Gynecology 34 (S1), 34-34		2009
THE SPATIO-TEMPORAL LOCALISATION OF THE CHROMOSOMAL PASSENGER COMPLEX IN DROSOPHILA S Li, A Noble, J Wakefield Postgraduate Conference in Biomedical Engineering & Medical Physics, 43		2009
Bioimage image analysis and machine learning C Li, A Noble Intelligence (PAMI) 31 (6), 1048-1058		2009
OC18: FETAL CARDIAC ANOMALIES MJ Gooding, K Rajpoot, S Mitchell, P Chamberlain, JA Noble, ... Ultrasound in Obstetrics & Gynecology 34 (1), 1-61		2009
OP33. 06 Live three-dimensional fetal echocardiography: a preliminary experience MJ Gooding, S Mitchell, P Chamberlain, JA Noble, SH Kennedy Ultrasound in Obstetrics & Gynecology 34 (1), 62-176		2009
Segmentation and sizing of breast cancer masses with ultrasound elasticity imaging E Von Lavante Oxford University		2008

TITLE	CITED BY	YEAR
New fusion technique significantly improves image quality and completeness of datasets in real time 3 dimensional echocardiography C Szmigielski, V Grau, M Hoeschen, JA Noble, R Kerber, H Becher Circulation 116 (suppl_16), II_401-II_401		2007
A new technique for fusion of real-time three-dimensional echocardiography datasets obtained from different transducer positions: first clinical results CA Szmigielski, V Grau, JA Noble, M Hoeschen, HHH Becher EUROPEAN HEART JOURNAL 28		2007
A Comparison of Phase and Speckle Tracking Registration Methods for Motion Correction during HIFU Treatment T Yates, PP Smith, A Noble, T Leslie, J Kennedy AIP Conference Proceedings 911 (1), 242-248		2007
SPONSORING SOCIETIES AO HERO, ART BALLATO, B DAWANT, ZP LIANG, AB BRILL, ...		2007
General Medical Image Computing--Improving the Contrast of Breast Cancer Masses in Ultrasound Using an Autoregressive Model Based Filter E Lavante, JA Noble Lecture Notes in Computer Science 4791, 153-160		2007
P1A-4 Elasticity Reconstruction from Displacement and Confidence Measures of a Multi-compressed Ultrasound RF Sequence J Li, Y Cui, M Kadour, JA Noble 2006 IEEE Ultrasonics Symposium, 1213-1216		2006
Steering Committee E Claridge, J Graham, D Hill, M Mirmehdi, A Noble, D Rueckert, ...		2006
SPONSORING SOCIETIES AO HERO, ART BALLATO, B DAWANT, ZP LIANG, AB BRILL, ...		2006
Semi- automatic epicardial border tracking R Casero, J Timperley, C Lofiego, JA Noble, H Becher Elsevier		2005
1128 Impact of Doppler wire position on the velocity field and power density spectrum in a middle-sized artery K Courtens, W Hillewaert, M McLaughlin, B Bilnens, P Devos, F Claus, ... European Journal of Echocardiography 6 (suppl_1), S182-S182		2005
754 Assessment of myocardial perfusion in patients with triple vessel disease of coronary artery using quantitative real-time myocardial contrast echocardiography SZ Liu, XH Shu, CZ Pan, HZ Chen European Journal of Echocardiography 6 (suppl_1), S115-S115		2005
Reviewers--an acknowledgement N Ayache, J Duncan, C Alberola-López, D Alexander, T Arts, R Bansal, ... Medical Image Analysis 9, 612-613		2005
Poster Session 1-Tissue Perfusion Diagnostic Classification Using a Spatio-temporal Analysis of Contrast Ultrasound Image Sequences Q Williams, JA Noble, A Ehlgén, H Becher Lecture Notes in Computer Science 3565, 222-233		2005

TITLE	CITED BY	YEAR
Tracking of myocardial walls and study of contractility and thickening R Casero, J Timperley, JA Noble, H Becher Imperial College ,London		2004
Selection of papers from IPMI 2003 CJ Taylor, JA Noble IEEE Transactions on Medical Imaging 23 (8), 929-929		2004
A study of pressure-dependent attenuation in ultrasound contrast imaging MX Tang, RJ Eckersley, JA Noble 2004 2nd IEEE International Symposium on Biomedical Imaging: Nano to Macro ...		2004
Reviewers-an acknowledgement N Ayache Medical Image Analysis 4 (8), 475-476		2004
Cardiac and Other Applications-A Spatio-temporal Analysis of Contrast Ultrasound Image Sequences for Assessment of Tissue Perfusion QR Williams, JA Noble Lecture Notes in Computer Science 3217, 899-906		2004
Reconstructive 3D Echocardiography for precise quantification of left ventricular geometry and function in mice with chronic heart failure D Dawson, C Lygate, J Saunders, J Schneider, A Noble, S Neubauer		2003
Information Processing in Medical Imaging: 18th International Conference, IPMI 2003 C Taylor, JA Noble Springer		2003
P3F-5 Inversion Elasticity Reconstruction of Soft Tissue Using Split-and-Merge Strategy from Strain Map of Ultrasound Image Sequence J Li, J Noble, L Han, M Burcher ULTRASONICS SYMPOSIUM 2, 1927-1930		2003
From medical image and signals to clinical information M Brady, L Tarrassenko, A Noble, S Smith, P Matthews, D Hawkes, D Hill, ... European Radiology 12 (1, Suppl.), 504		2002
テリトリベース 3D-2D レジストレーション手法の拡張とその応用 喜多泰代, 喜多伸之 電子情報通信学会論文誌 D 84 (8), 1682-1692		2001
Poster Session II Functional Image Analysis-3D Vascular Segmentation Using MRA Statistics and Velocity Field Information in PC-MRA ACS Chung, JA Noble, P Summers, M Brady Lecture Notes in Computer Science 2082, 461-467		2001
Poster Session II-Quantitative Image Analysis-3D Freehand Echocardiography for Automatic Left Ventricle Reconstruction and Analysis Based on Multiple Acoustic Windows X Ye, JA Noble, J Declerck Lecture Notes in Computer Science 2208, 778-785		2001
Quantitative Image Analysis MHF Wilkinson, MA Westenberg, X Ye, JA Noble, J Declerck, W Kerwin, ... Medical Image Computing and Computer-assisted Intervention		2001

TITLE	CITED BY	YEAR
Fusing Speed and Phase Information for Vascular ACS Chungl, JA Noble, P Summers Medical Image Computing and Computer-Assisted Intervention-MICCAI 2000 ...		2000
Segmentation bayésienne d'images par une approche markovienne multirésolution. Application à l'imagerie échocardiographique et échographique 2D et 3D du sein. A NOBLE, F TRUCHETET, EP BOUTHEMY, I MAGNIN, DO BASSET INSTITUT NATIONAL DES SCIENCES APPLIQUÉES DE LYON		2000
Medical image analysis-Foreword C Taylor, A Noble Medical Image Analysis 1 (3), 37		1999
High precision x-ray stereo for automated 3-D CAD-based inspection A Noble, R Gupta, J Mundy, A Schmitz, RI Hartley Computer Standards & Interfaces 2 (21), 195		1999
Spatiotemporal and Diffusion Tensor Analysis-Segmentation of Echocardiographic Data. Multiresolution 2D and 3D Algorithm Based on Grey Level Statistics D Boukerroui, O Basset, A Baskurt, A Noble Lecture Notes in Computer Science 1679, 516-523		1999
Feature Extraction and Image-Based Measurements-Automatically Finding Optimal Working Projections for the Endovascular Coiling of Intracranial Aneurysms DL Wilson, JA Noble, D Royston, J Byrne Lecture Notes in Computer Science 1496, 814-821		1998
CAD-based Inspection using X-Ray Stereo A Noble, R Gupta, J Mundy, A Schmitz IEEE INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION 1 (3), 2361-2361		1993
Bayesian part tolerancing with measurement uncertainty [2032-34] AJ Noble, JL Mundy PROCEEDINGS-SPIE THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, 280-280		1993
Estimating Asymmetric Noise. JA Noble, M Brady Alvey Vision Conference, 1-6		1989
MOLL, ROBERT E., 488 MORTIMER, FORREST S. JD NOBLE, CP POOLE JR, WJ RADEMAKER, VJ ROBINSON, SL SMITH, ... JOURNAL OF MAGNETIC RESONANCE 1, 685-686		1969
A regression forest-based automated image analysis technique to estimate GA between 18 and 34 weeks B Kemp, A Namburete, S Kennedy, A Noble, A Papageorghiou 1 Nuffield Department of Obstetrics & Gynaecology, University of Oxford and ...		1
Saliency aware continual learning in medical image analysis A Patra, JA Noble		

TITLE	CITED BY	YEAR
Medical Image Processing JA Noble Wiley Encyclopedia of Electrical and Electronics Engineering		
Editorial Assistants I Strobant, C Meloling, T Dohi, D Hawkes, L Joskowicz, F Kruggel, ...		
Assessment of malaria in pregnancy using a novel Wavelet-based analysis of ultrasound images KM Evans, JA Noble, ORD Headington		
Spatiotemporal Bayesian cell population tracking and analysis with lineage construction J Wakefield, JA Noble		
CVPR 2016 Outstanding Reviewers Z Akata, R Arandjelovic, A Argyros, T Avraham, S Branson, J Choi, ...		
Supporting Information Figures S1-S13 C Bühnemann, S Li, H Yu, HB White, KL Schäfer, A Lombart-Bosch, ...		
ICCV 2015 Outstanding Reviewers R Arandjelovic, A Argyros, M Ben-ezra, O Ben-Shahar, C Benitez-Quiroz, ...		
基于连续多次超声测量的胎儿生长的国际标准: 二十一世纪国际胎儿, 新生儿生长发育项目的有关新生儿纵向研究 MGG Bertino, M Purwar, JA Noble, CGV RuyanPang, FC Barros, ... The Lancet 384 (9946), 869-879		
依据胎龄和性别所得到的新生儿体重, 身长, 头围的国际标准: 二十一世纪国际胎儿, 新生儿生长发育项目的有关新生儿横向研究 J Villar, LC Ismail, CG Victora, EO Ohuma, E Bertino, DG Altman, ...		
Statistical Analysis of Background Noise in Diffusion Images ACS Chung, PA Armitage, P Summers, JA Noble ratio 1, 0		
INTER-MODALITY REGISTRATION TO GUIDE CARDIAC PROCEDURES JE McManigle, A Arai, JA Noble		
Ultrasound-Based Fetal Arm Adipose Tissue Thickness Quantification Across Gestation S Rueda, CL Knight, AT Papageorghiou, JA Noble		
Flow characterisation of brain AVMs using phase contrast P Orłowski, P Summers, J Byrne, J Neelavalli, A Campi, Y Ventikos, ... 1st World AVM Congress		
Treatment Planning for the Embolization of Arteriovenous Malformations of the Brain: Intranidal Vascular Connectivity Extraction P Orłowski, F Al-Senani, PE Summers, Y Ventikos, JA Noble, JV Byrne Bioengineering'09		
Visual description of brain AVMs: Initial notes P Orłowski, I Mahmud, K Mudassar, P Summers, A Campi, Y Ventikos, ... 1st World AVM Congress		

TITLE	CITED BY	YEAR
IMPROVING BREAST MASS VISIBILITY IN ULTRASOUND IMAGES USING SPECTRAL ANALYSIS AND CONTRAST ENHANCEMENT ALGORITHMS RT Ribeiro, R English, JA Noble GE Corporate Research & Development Schenectady, NY 12301 A Noble, R Hartley, J Mundy, J Farley		
MMBIA 2009: IEEE Computer Society Workshop on Mathematical Methods in Biomedical Image Analysis June 20 2009, In conjunction with CVPR, Miami, Florida. General chair DN Metaxas, C Kambhamettu, AF Frangi, G Hamarneh, N Navab, A Noble, ...		
Ultrasound Imaging as an Information Probe A Noble		
Correction of Bias Field in MR Images Using Singularity Function Analysis... J. Luo, Y. Zhu, P. Clarysse, and I. Magnin 1067 DCC Fernández, B Pang, D Zhang, K Wang, DG Kang, JB Ra, C Bontus, ...		
IPMI 03: information processing in medical imaging(Ambleside, 20-25 July 2003) C Taylor, JA Noble Lecture notes in computer science		
Analysis of Endocardial Motion from 3D Echocardiography Using 16-Segment Labelling of the Myocardium and Non-Rigid Registration AT Zabair, JA Noble		
Challenge Abstract: Accurate Segmentation and Tracking of 3D Echocardiography Images AT Zabair, JA Noble		
Validation Study on Automatic Methods for the Registration of Carotid Multi-Contrast MR Images L Biasioli, JA Noble, MD Robson		
Automating 3D Echocardiographic Image Analysis M Mulet-Parada, JA Noble		
Automatic segmentation of LV volumes in murine cine MR data using an EM-MRF algorithm with partial volume correction JE Schneider, C Jackson, X Ye, S Neubauer, JA Noble		