

Martyn Nash

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5490429/martyn-nash-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

176
papers

4,024
citations

34
h-index

59
g-index

202
ext. papers

4,611
ext. citations

4.1
avg, IF

5.37
L-index

#	Paper	IF	Citations
176	Computational Mechanics of the Heart 2000 , 61, 113-141		297
175	Electromechanical model of excitable tissue to study reentrant cardiac arrhythmias. <i>Progress in Biophysics and Molecular Biology</i> , 2004 , 85, 501-22	4.7	269
174	Evidence for multiple mechanisms in human ventricular fibrillation. <i>Circulation</i> , 2006 , 114, 536-42	16.7	176
173	Modelling passive diastolic mechanics with quantitative MRI of cardiac structure and function. <i>Medical Image Analysis</i> , 2009 , 13, 773-84	15.4	137
172	Coupling multi-physics models to cardiac mechanics. <i>Progress in Biophysics and Molecular Biology</i> , 2011 , 104, 77-88	4.7	130
171	Multiphysics and multiscale modelling, data-model fusion and integration of organ physiology in the clinic: ventricular cardiac mechanics. <i>Interface Focus</i> , 2016 , 6, 20150083	3.9	118
170	Phase mapping of cardiac fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2010 , 3, 105-14	6.4	113
169	Whole heart action potential duration restitution properties in cardiac patients: a combined clinical and modelling study. <i>Experimental Physiology</i> , 2006 , 91, 339-54	2.4	102
168	Supine and prone differences in regional lung density and pleural pressure gradients in the human lung with constant shape. <i>Journal of Applied Physiology</i> , 2009 , 107, 912-20	3.7	101
167	OpenCMISS: a multi-physics & multi-scale computational infrastructure for the VPH/Physiome project. <i>Progress in Biophysics and Molecular Biology</i> , 2011 , 107, 32-47	4.7	100
166	Electromechanical wavebreak in a model of the human left ventricle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H134-43	5.2	85
165	Drift and breakup of spiral waves in reaction-diffusion-mechanics systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 7922-6	11.5	82
164	Self-organized pacemakers in a coupled reaction-diffusion-mechanics system. <i>Physical Review Letters</i> , 2005 , 95, 258104	7.4	80
163	Noninvasive electrical imaging of the heart: theory and model development. <i>Annals of Biomedical Engineering</i> , 2001 , 29, 817-36	4.7	78
162	Estimating material parameters of a structurally based constitutive relation for skin mechanics. <i>Biomechanics and Modeling in Mechanobiology</i> , 2011 , 10, 767-78	3.8	76
161	Myocardial material parameter estimation-a comparative study for simple shear. <i>Journal of Biomechanical Engineering</i> , 2006 , 128, 742-50	2.1	73
160	ECG signal classification for the detection of cardiac arrhythmias using a convolutional recurrent neural network. <i>Physiological Measurement</i> , 2018 , 39, 094006	2.9	64

159	Organization of ventricular fibrillation in the human heart: experiments and models. <i>Experimental Physiology</i> , 2009 , 94, 553-62	2.4	64
158	Using Animation to Improve Recovery from Acute Coronary Syndrome: A Randomized Trial. <i>Annals of Behavioral Medicine</i> , 2016 , 50, 108-18	4.5	63
157	Verification of cardiac mechanics software: benchmark problems and solutions for testing active and passive material behaviour. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015 , 471, 20150641	2.4	61
156	Creating individual-specific biomechanical models of the breast for medical image analysis. <i>Academic Radiology</i> , 2008 , 15, 1425-36	4.3	58
155	Effect of heterogeneous APD restitution on VF organization in a model of the human ventricles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H764-74	5.2	58
154	Determining the finite elasticity reference state from a loaded configuration. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 72, 1434-1451	2.4	53
153	Computational and experimental characterization of skin mechanics: identifying current challenges and future directions. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2013 , 5, 539-56	6.6	52
152	A computational study of mother rotor VF in the human ventricles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H370-9	5.2	52
151	Myocardial material parameter estimation: a non-homogeneous finite element study from simple shear tests. <i>Biomechanics and Modeling in Mechanobiology</i> , 2008 , 7, 161-73	3.8	52
150	Mathematical modelling of the heart: cell to organ. <i>Chaos, Solitons and Fractals</i> , 2002 , 13, 1613-1621	9.3	41
149	Characterizing the ex vivo mechanical properties of synthetic polypropylene surgical mesh. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 37, 48-55	4.1	40
148	Modeling breast biomechanics for multi-modal image analysis--successes and challenges. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2010 , 2, 293-304	6.6	40
147	Image-Based Predictive Modeling of Heart Mechanics. <i>Annual Review of Biomedical Engineering</i> , 2015 , 17, 351-83	12	39
146	A biomechanical model of mammographic compressions. <i>Biomechanics and Modeling in Mechanobiology</i> , 2008 , 7, 43-52	3.8	38
145	Imaging electrocardiographic dispersion of depolarization and repolarization during ischemia: simultaneous body surface and epicardial mapping. <i>Circulation</i> , 2003 , 107, 2257-63	16.7	35
144	Breast lesion co-localisation between X-ray and MR images using finite element modelling. <i>Medical Image Analysis</i> , 2013 , 17, 1256-64	15.4	34
143	Modelling collagen fibre orientation in porcine skin based upon confocal laser scanning microscopy. <i>Skin Research and Technology</i> , 2011 , 17, 149-59	1.9	34
142	Modeling cardiac mechano-electrical feedback using reaction-diffusion-mechanics systems. <i>Physica D: Nonlinear Phenomena</i> , 2009 , 238, 1000-1007	3.3	33

141	Suitability of recent hardware accelerators (DSPs, FPGAs, and GPUs) for computer vision and image processing algorithms. <i>Signal Processing: Image Communication</i> , 2018 , 68, 101-119	2.8	32
140	The Inverse Problem of Electrocardiography 2010 , 299-344		32
139	Modeling of the mechanical function of the human gastroesophageal junction using an anatomically realistic three-dimensional model. <i>Journal of Biomechanics</i> , 2009 , 42, 1604-9	2.9	30
138	Effect of global cardiac ischemia on human ventricular fibrillation: insights from a multi-scale mechanistic model of the human heart. <i>PLoS Computational Biology</i> , 2014 , 10, e1003891	5	29
137	Computational multiscale modeling in the IUPS Physiome Project: Modeling cardiac electromechanics. <i>IBM Journal of Research and Development</i> , 2006 , 50, 617-630	2.5	29
136	An imaging-based computational approach to model ventilation distribution and soft-tissue deformation in the ovine lung. <i>Academic Radiology</i> , 2006 , 13, 113-20	4.3	29
135	Identification of mechanical properties of heterogeneous soft bodies using gravity loading. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2011 , 27, 391-407	2.6	28
134	Anisotropic effects of the levator ani muscle during childbirth. <i>Biomechanics and Modeling in Mechanobiology</i> , 2011 , 10, 485-94	3.8	26
133	Effects of nonlinear muscle elasticity on pelvic floor mechanics during vaginal childbirth. <i>Journal of Biomechanical Engineering</i> , 2010 , 132, 111010	2.1	26
132	Predicting lymphatic drainage patterns and primary tumour location in patients with breast cancer. <i>Breast Cancer Research and Treatment</i> , 2011 , 130, 699-705	4.4	25
131	Modeling childbirth: elucidating the mechanisms of labor. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2010 , 2, 460-470	6.6	25
130	Challenges facing validation of noninvasive electrical imaging of the heart. <i>Annals of Noninvasive Electrocardiology</i> , 2005 , 10, 73-82	1.5	25
129	Pacemakers in a Reaction-Diffusion Mechanics System. <i>Journal of Statistical Physics</i> , 2007 , 128, 375-392	1.5	24
128	Predicting Tumour Location by Simulating Large Deformations of the Breast Using a 3D Finite Element Model and Nonlinear Elasticity. <i>Lecture Notes in Computer Science</i> , 2004 , 217-224	0.9	24
127	Human ventricular fibrillation during global ischemia and reperfusion: paradoxical changes in activation rate and wavefront complexity. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2011 , 4, 684-91	6.4	23
126	Ventricular activation during sympathetic imbalance and its computational reconstruction. <i>Journal of Applied Physiology</i> , 2001 , 90, 287-98	3.7	23
125	Breast Image Registration by Combining Finite Elements and Free-Form Deformations. <i>Lecture Notes in Computer Science</i> , 2010 , 736-743	0.9	23
124	A discrete model to study reaction-diffusion-mechanics systems. <i>PLoS ONE</i> , 2011 , 6, e21934	3.7	21

123	Frictional contact mechanics methods for soft materials: application to tracking breast cancers. <i>Journal of Biomechanics</i> , 2008 , 41, 69-77	2.9	20
122	Left Ventricular Diastolic Myocardial Stiffness and End-Diastolic Myofibre Stress in Human Heart Failure Using Personalised Biomechanical Analysis. <i>Journal of Cardiovascular Translational Research</i> , 2018 , 11, 346-356	3.3	19
121	Model-based identification of motion sensor placement for tracking retraction and elongation of the tongue. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013 , 12, 383-99	3.8	19
120	Modelling mammographic compression of the breast. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 758-65.9		19
119	Analysis of cardiac fibrillation using phase mapping. <i>Cardiac Electrophysiology Clinics</i> , 2015 , 7, 49-58	1.4	17
118	Subpixel phase-based image registration using SavitzkyGolay differentiators in gradient-correlation. <i>Computer Vision and Image Understanding</i> , 2018 , 170, 28-39	4.3	16
117	Lymphatic drainage and tumour prevalence in the breast: a statistical analysis of symmetry, gender and node field independence. <i>Journal of Anatomy</i> , 2011 , 218, 652-9	2.9	15
116	Image-Based Investigation of Human in Vivo Myofibre Strain. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 2486-2496	11.7	14
115	Characterizing levator-ani muscle stiffness pre- and post-childbirth in European and Polynesian women in New Zealand: a pilot study. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 2017 , 96, 1234-1242 ^{3.8}		14
114	Comparison of the Gibbs and Suga formulations of cardiac energetics: the demise of "isoefficiency". <i>Journal of Applied Physiology</i> , 2012 , 113, 996-1003	3.7	13
113	Experiment-model interaction for analysis of epicardial activation during human ventricular fibrillation with global myocardial ischaemia. <i>Progress in Biophysics and Molecular Biology</i> , 2011 , 107, 101-11	4.7	13
112	Myocardial material parameter estimation: a comparison of invariant based orthotropic constitutive equations. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009 , 12, 283-95 ^{2.1}		13
111	The effect of hoof angle variations on dorsal lamellar load in the equine hoof. <i>Equine Veterinary Journal</i> , 2011 , 43, 536-42	2.4	12
110	A computationally efficient optimization kernel for material parameter estimation procedures. <i>Journal of Biomechanical Engineering</i> , 2007 , 129, 279-83	2.1	12
109	Modelling Cardiac Tissue Growth and Remodelling. <i>Journal of Elasticity</i> , 2017 , 129, 283-305	1.5	12
108	Increased cardiac work provides a link between systemic hypertension and heart failure. <i>Physiological Reports</i> , 2017 , 5, e13104	2.6	10
107	A stabilised mixed meshfree method for incompressible media: Application to linear elasticity and Stokes flow. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 329, 575-598	5.7	10
106	Myocardial Contractility and Regional Work throughout the Cardiac Cycle Using FEM and MRI. <i>Lecture Notes in Computer Science</i> , 2012 , 149-159	0.9	10

105	Image-driven constitutive modeling of myocardial fibrosis. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2016 , 17, 211-221	0.7	10
104	Effects of fetal head shape variation on the second stage of labour. <i>Journal of Biomechanics</i> , 2015 , 48, 1593-9	2.9	9
103	Myocardial twitch duration and the dependence of oxygen consumption on pressure-volume area: experiments and modelling. <i>Journal of Physiology</i> , 2012 , 590, 4603-22	3.9	9
102	Finite element modelling of breast biomechanics: directly calculating the reference state. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 420-3		9
101	Development of a three-dimensional finite element model of breast mechanics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2004 , 2004, 5080-3		9
100	An experimental model to correlate simultaneous body surface and epicardial electropotential recordings in vivo. <i>Chaos, Solitons and Fractals</i> , 2002 , 13, 1735-1742	9.3	9
99	Estimation of transversely isotropic material properties from magnetic resonance elastography using the optimised virtual fields method. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018 , 34, e2979	2.6	8
98	Modelling Prone to Supine Breast Deformation Under Gravity Loading Using Heterogeneous Finite Element Models 2012 , 29-38		8
97	Modelling the pelvic floor for investigating difficulties during childbirth 2008 ,		8
96	A computational model of cardiac electromechanics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 5311-4		8
95	The Breast Biomechanics Reference State for Multi-modal Image Analysis. <i>Lecture Notes in Computer Science</i> , 2008 , 385-392	0.9	8
94	Towards tracking breast cancer across medical images using subject-specific biomechanical models 2007 , 10, 651-8		8
93	Cardiac Active Contraction Parameters Estimated from Magnetic Resonance Imaging. <i>Lecture Notes in Computer Science</i> , 2010 , 194-203	0.9	8
92	Changes in In Vivo Myocardial Tissue Properties Due to Heart Failure. <i>Lecture Notes in Computer Science</i> , 2013 , 216-223	0.9	8
91	Constitutive relations for pressure-driven stiffening in poroelastic tissues. <i>Journal of Biomechanical Engineering</i> , 2014 , 136,	2.1	7
90	Relating components of pressure-volume area in Suga's formulation of cardiac energetics to components of the stress-time integral. <i>Journal of Applied Physiology</i> , 2012 , 113, 988-95	3.7	7
89	2012 ,		7
88	FPGA implementation of 2D cross-correlation for real-time 3D tracking of deformable surfaces 2013 ,		7

87	Patient-Specific Modeling of Breast Biomechanics with Applications to Breast Cancer Detection and Treatment. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2011 , 379-412	0.5	7
86	M/M/Infinity Birth-Death Processes - A Quantitative Representational Framework to Summarize and Explain Phase Singularity and Wavelet Dynamics in Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2020 , 11, 616866	4.6	7
85	Clinical Applications of Breast Biomechanics 2017 , 215-242		6
84	Microstructurally Motivated Constitutive Modeling of Heart Failure Mechanics. <i>Biophysical Journal</i> , 2019 , 117, 2273-2286	2.9	6
83	Passive ventricular mechanics modelling using MRI of structure and function. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 814-21	0.9	6
82	Modelling childbirth: comparing athlete and non-athlete pelvic floor mechanics. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 750-7	0.9	6
81	Non-contact Quantification of Jugular Venous Pulse Waveforms from Skin Displacements. <i>Scientific Reports</i> , 2018 , 8, 17236	4.9	6
80	Mapping Microcalcifications Between 2D Mammograms and 3D MRI Using a Biomechanical Model of the Breast 2010 , 17-28		6
79	Multidirectional In Vivo Characterization of Skin Using Wiener Nonlinear Stochastic System Identification Techniques. <i>Journal of Biomechanical Engineering</i> , 2017 , 139,	2.1	5
78	Head kinematics during shaking associated with abusive head trauma. <i>Journal of Biomechanics</i> , 2015 , 48, 3123-7	2.9	5
77	Efficient estimation of load-free left ventricular geometry and passive myocardial properties using principal component analysis. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020 , 36, e3313	2.6	5
76	The influence of loading conditions on equine hoof capsule deflections and stored energy assessed by finite element analysis. <i>Biosystems Engineering</i> , 2013 , 115, 283-290	4.8	5
75	Mapping Breast Cancer Between Clinical X-Ray and MR Images 2011 , 81-90		5
74	Subpixel Measurement of Living Skin Deformation Using Intrinsic Features 2017 , 91-99		5
73	A Quantitative Description of Pelvic Floor Muscle Fibre Organisation 2011 , 119-130		5
72	Calibration of a fully coupled electromechanical meshless computational model of the heart with experimental data. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 364, 112869	5.7	4
71	Deep Learning Over Reduced Intrinsic Domains for Efficient Mechanics of the Left Ventricle. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	4
70	The influence of tissue hydration on equine hoof capsule deformation and energy storage assessed using finite element methods. <i>Biosystems Engineering</i> , 2012 , 111, 175-185	4.8	4

69	Method for quantifying conduction velocity during ventricular fibrillation. <i>Physical Review E</i> , 2007 , 75, 011914	2.4	4
68	Determining Anisotropic Myocardial Stiffness from Magnetic Resonance Elastography: A Simulation Study. <i>Lecture Notes in Computer Science</i> , 2015 , 346-354	0.9	4
67	Automated Personalised Human Left Ventricular FE Models to Investigate Heart Failure Mechanics. <i>Lecture Notes in Computer Science</i> , 2013 , 307-316	0.9	4
66	Modeling the second stage of labor. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2016 , 8, 506-516	6.6	4
65	Effects of Fetal Head Motion on Pelvic Floor Mechanics 2010 , 129-137		4
64	An automated computational biomechanics workflow for improving breast cancer diagnosis and treatment. <i>Interface Focus</i> , 2019 , 9, 20190034	3.9	3
63	A Low-cost, hand-held stereoscopic device for measuring dynamic deformations of skin in vivo 2015 ,		3
62	Spatial heterogeneity of action potential duration restitution in humans. <i>Heart Rhythm</i> , 2005 , 2, S216-S217		3
61	An image-based computational model of ovine lung mechanics and ventilation distribution 2005 , 5746, 84		3
60	Microstructural Remodelling and Mechanics of Hypertensive Heart Disease. <i>Lecture Notes in Computer Science</i> , 2015 , 382-389	0.9	3
59	Quantifying Carotid Pulse Waveforms Using Subpixel Image Registration 2019 , 83-92		3
58	Mathematical models of cardiac structure and function: mechanistic insights from models of heart failure 2011 , 241-250		3
57	Relative identifiability of anisotropic properties from magnetic resonance elastography. <i>NMR in Biomedicine</i> , 2018 , 31, e3848	4.4	3
56	Method for Validating Breast Compression Models Using Normalised Cross-Correlation 2010 , 63-71		3
55	Surface deformation tracking and modelling of soft materials. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019 , 18, 1031-1045	3.8	2
54	Insights From Computational Modeling Into the Contribution of Mechano-Calcium Feedback on the Cardiac End-Systolic Force-Length Relationship. <i>Frontiers in Physiology</i> , 2020 , 11, 587	4.6	2
53	Spatio-temporal Organization During Ventricular Fibrillation in the Human Heart. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 864-876	4.7	2
52	Quantifying passive myocardial stiffness and wall stress in heart failure patients using personalized ventricular mechanics. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18, O17	6.9	2

51	Relationship Between Structure and Mechanics for Membranous Tissues 2016 , 135-173		2
50	3D surface profiling using arbitrarily positioned cameras 2013 ,		2
49	A finite element study of invariant-based orthotropic constitutive equations in the context of myocardial material parameter estimation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009 , 12, 691-9	2.1	2
48	Interactive biventricular modeling tools for clinical cardiac image analysis. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2010 , 12,	6.9	2
47	Biomechanical modelling for breast image registration 2008 ,		2
46	Modelling the mechanical properties of human skin: towards a 3D discrete fibre model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 6641-4		2
45	Modelling the skin-breast tissue interface. <i>Journal of Biomechanics</i> , 2006 , 39, S638	2.9	2
44	Finite Element Modelling of Breast Biomechanics: Finding a Reference aState. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 3268-71		2
43	Passive myocardial mechanical properties: meaning, measurement, models. <i>Biophysical Reviews</i> , 2021 , 13, 587-610	3.7	2
42	Motion Correction Using Subpixel Image Registration. <i>Lecture Notes in Computer Science</i> , 2017 , 14-23	0.9	2
41	Estimation of In Vivo Myocardial Fibre Strain Using an Architectural Atlas of the Human Heart. <i>Lecture Notes in Computer Science</i> , 2013 , 208-215	0.9	2
40	Myocardial Lamellar Organization Is Retained in Angiotensin-Converting Enzyme Inhibitor Treated SHR. <i>Experimental Mechanics</i> , 2021 , 61, 31-40	2.6	2
39	Surface deformation tracking and modeling of soft materials. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 4411-4	0.9	1
38	Correlation of breast image alignment using biomechanical modelling 2009 ,		1
37	The SARD variety of multifractality of ventricular epicardial mapping during ischemia. <i>Science Bulletin</i> , 2006 , 51, 809-814	10.6	1
36	Multifractal ECG mapping of ventricular epicardium during regional ischemia in the pig. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 1920-5	5	1
35	Non-invasive electrical imaging of the heart		1
34	Ventricular fibrillation: combined myocardial substrate and Purkinje ablation.. <i>European Heart Journal</i> , 2022 ,	9.5	1

33	A governing equation for rotor and wavelet number in human clinical ventricular fibrillation: Implications for sudden cardiac death. <i>Heart Rhythm</i> , 2021 ,	6.7	1
32	Quantifying optical anisotropy in soft tissue membranes using Mueller matrix imaging. <i>Journal of Biomedical Optics</i> , 2021 , 26,	3.5	1
31	Comparison of 2D Echocardiography and Cardiac Cine MRI in the Assessment of Regional Left Ventricular Wall Thickness. <i>Lecture Notes in Computer Science</i> , 2020 , 52-62	0.9	1
30	Field-Based Parameterisation of Cardiac Muscle Structure from Diffusion Tensors. <i>Lecture Notes in Computer Science</i> , 2015 , 146-154	0.9	1
29	Registration of Prone and Supine Breast MRI for Breast Cancer Treatment Planning 2017 , 123-134		1
28	Abusive Head Trauma: Developing a Computational Adult Head Model to Predict Brain Deformations under Mild Accelerations 2017 , 147-157		1
27	Three-Dimensional Quantification of Myocardial Collagen Morphology from Confocal Images. <i>Lecture Notes in Computer Science</i> , 2017 , 3-12	0.9	1
26	Probabilistic description of infant head kinematics in abusive head trauma. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017 , 20, 1633-1642	2.1	1
25	Automatic Landmark Detection Using Statistical Shape Modelling and Template Matching 2015 , 75-82		1
24	Identification of Transversely Isotropic Properties from Magnetic Resonance Elastography Using the Optimised Virtual Fields Method. <i>Lecture Notes in Computer Science</i> , 2017 , 421-431	0.9	1
23	Interactive Cardiac Image Analysis for Biventricular Function of the Human Heart. <i>Lecture Notes in Computer Science</i> , 2010 , 144-153	0.9	1
22	The effect of camera settings on image noise and accuracy of subpixel image registration. <i>Machine Vision and Applications</i> , 2021 , 32, 1	2.8	1
21	Sensitivity of Myocardial Stiffness Estimates to Inter-observer Variability in LV Geometric Modelling. <i>Lecture Notes in Computer Science</i> , 2021 , 287-295	0.9	1
20	Systematic Comparison of Left Ventricular Geometry Between 3D-Echocardiography and Cardiac Magnetic Resonance Imaging. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 728205	5.4	1
19	Effects of Levator Ani Muscle Morphology on the Mechanics of Vaginal Childbirth 2012 , 63-75		1
18	Identification of Tongue Muscle Fibre Group Contraction from MR Images 2013 , 185-196		1
17	Insight from modelling can address controversial observations. <i>Equine Veterinary Journal</i> , 2012 , 44, 499-500		0
16	Detailed hoof morphometry is sparsely documented. <i>Equine Veterinary Journal</i> , 2012 , 44, 500-500	2.4	0

- 15 Parameterisation of Multi-directional Diffusion Weighted Magnetic Resonance Images of the Heart. *Lecture Notes in Computer Science*, **2016**, 60-68 0.9
- 14 Comparison of system identification techniques in the analysis of a phantom for studying shaken-baby syndrome. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 1363-6 0.9
- 13 Myocardial material parameter estimation: the influences of constitutive relation and experiential protocol. *Journal of Biomechanics*, **2006**, 39, S277-S278 2.9
- 12 Pipeline for 3D Reconstruction of Lung Surfaces Using Intrinsic Features Under Pressure-Controlled Ventilation **2020**, 123-134
- 11 Efficient Ventricular Parameter Estimation Using AI-Surrogate Models. *Frontiers in Physiology*, **2021**, 12, 732351 4.6
- 10 Modelling Cardiac Tissue Growth and Remodelling **2018**, 283-305
- 9 Removing Drift from Carotid Arterial Pulse Waveforms: A Comparison of Motion Correction and High-Pass Filtering **2020**, 111-119
- 8 Identifying Myocardial Mechanical Properties from MRI Using an Orthotropic Constitutive Model. *Lecture Notes in Computer Science*, **2015**, 135-144 0.9
- 7 Model-Based Interpretation of Skin Microstructural and Mechanical Measurements **2015**, 1-20
- 6 Robust Landmark Identification for Generating Subject Specific Models for Biomechanics **2016**, 39-49
- 5 Model-Based Interpretation of Skin Microstructural and Mechanical Measurements **2017**, 1019-1037
- 4 Investigating Heart Failure Using Ventricular Imaging and Modelling. *Lecture Notes in Computer Science*, **2010**, 164-173 0.9
- 3 The Inverse Problem of Electrocardiography **2012**, 299-344
- 2 Characterising the Soft Tissue Mechanical Properties of the Lower Limb of a Below-Knee Amputee: A Review **2021**, 99-111
- 1 In Vivo Pressure-Volume Loops and Chamber Stiffness Estimation Using Real-Time 3D Echocardiography and Left Ventricular Catheterization Application to Post-heart Transplant Patients. *Lecture Notes in Computer Science*, **2021**, 396-405 0.9