

Andrew P Bradley

List of Publications by Citations

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

118
papers

6,265
citations

29
h-index

78
g-index

133
ext. papers

7,600
ext. citations

3.6
avg, IF

6.46
L-index

#	Paper	IF	Citations
118	The use of the area under the ROC curve in the evaluation of machine learning algorithms. <i>Pattern Recognition</i> , 1997 , 30, 1145-1159	7.7	3578
117	Perceptual quality metrics applied to still image compression. <i>Signal Processing</i> , 1998 , 70, 177-200	4.4	227
116	A deep learning approach for the analysis of masses in mammograms with minimal user intervention. <i>Medical Image Analysis</i> , 2017 , 37, 114-128	15.4	175
115	Intelligible support vector machines for diagnosis of diabetes mellitus. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010 , 14, 1114-20		153
114	Rule extraction from support vector machines: A review. <i>Neurocomputing</i> , 2010 , 74, 178-190	5.4	134
113	Why rankings of biomedical image analysis competitions should be interpreted with care. <i>Nature Communications</i> , 2018 , 9, 5217	17.4	112
112	An improved joint optimization of multiple level set functions for the segmentation of overlapping cervical cells. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 1261-72	8.7	111
111	Automated Mass Detection in Mammograms Using Cascaded Deep Learning and Random Forests 2015 ,		97
110	Automated Analysis of Unregistered Multi-View Mammograms With Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 2355-2365	11.7	94
109	Precision Radiology: Predicting longevity using feature engineering and deep learning methods in a radiomics framework. <i>Scientific Reports</i> , 2017 , 7, 1648	4.9	86
108	Unregistered Multiview Mammogram Analysis with Pre-trained Deep Learning Models. <i>Lecture Notes in Computer Science</i> , 2015 , 652-660	0.9	84
107	A wavelet visible difference predictor. <i>IEEE Transactions on Image Processing</i> , 1999 , 8, 717-30	8.7	80
106	Evaluation of Three Algorithms for the Segmentation of Overlapping Cervical Cells. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017 , 21, 441-450	7.2	61
105	Rule Extraction from Support Vector Machines: A Sequential Covering Approach. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2007 , 19, 729-741	4.2	57
104	Stimulus specificity of a steady-state visual-evoked potential-based brain-computer interface. <i>Journal of Neural Engineering</i> , 2012 , 9, 036008	5	55
103	Deep Learning and Structured Prediction for the Segmentation of Mass in Mammograms. <i>Lecture Notes in Computer Science</i> , 2015 , 605-612	0.9	54
102	On wavelet analysis of auditory evoked potentials. <i>Clinical Neurophysiology</i> , 2004 , 115, 1114-28	4.3	53

101	The Automated Learning of Deep Features for Breast Mass Classification from Mammograms. <i>Lecture Notes in Computer Science</i> , 2016 , 106-114	0.9	47
100	Denoising of dynamic contrast-enhanced MR images using dynamic nonlocal means. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 302-10	11.7	46
99	Precision-recall operating characteristic (P-ROC) curves in imprecise environments 2006 ,		46
98	Visual attention for region of interest coding in JPEG 2000. <i>Journal of Visual Communication and Image Representation</i> , 2003 , 14, 232-250	2.7	46
97	Automated nucleus and cytoplasm segmentation of overlapping cervical cells. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 452-60	0.9	39
96	Deep Reinforcement Learning for Active Breast Lesion Detection from DCE-MRI. <i>Lecture Notes in Computer Science</i> , 2017 , 665-673	0.9	37
95	Nature of orchestral noise. <i>Journal of the Acoustical Society of America</i> , 2008 , 124, 926-39	2.2	33
94	The multiscale classifier. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1996 , 18, 124-137	3.3	33
93	Teaching histology to first-year veterinary science students using virtual microscopy and traditional microscopy: a comparison of student responses. <i>Journal of Veterinary Medical Education</i> , 2007 , 34, 177-82	1.3	31
92	Fully automated classification of mammograms using deep residual neural networks 2017 ,		29
91	Deep structured learning for mass segmentation from mammograms 2015 ,		29
90	Nearest neighbour group-based classification. <i>Pattern Recognition</i> , 2010 , 43, 3458-3467	7.7	29
89	Use of pulse transit time to distinguish respiratory events from tidal breathing in sleeping children. <i>Chest</i> , 2005 , 128, 3013-9	5.3	27
88	On chirp stimuli and neural synchrony in the suprathreshold auditory brainstem response. <i>Journal of the Acoustical Society of America</i> , 2010 , 128, 235-46	2.2	25
87	Far-infrared spectroscopy of protein higher-order structures. <i>Applied Spectroscopy</i> , 2010 , 64, 1259-64	3.1	25
86	Screening of obstructive and central apnoea/hypopnoea in children using variability: a preliminary study. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2006 , 95, 561-4	3.1	25
85	Physiological control of dual rotary pumps as a biventricular assist device using a master/slave approach. <i>Artificial Organs</i> , 2014 , 38, 766-74	2.6	24
84	A hybrid mock circulation loop for a total artificial heart. <i>Artificial Organs</i> , 2014 , 38, 775-82	2.6	22

83	ROC curves and the X2 test. <i>Pattern Recognition Letters</i> , 1996 , 17, 287-294	4.7	19
82	Rule Extraction from Support Vector Machines: Measuring the Explanation Capability Using the Area under the ROC Curve 2006 ,		17
81	Automated, quantitative measures of grey and white matter lesion burden correlates with motor and cognitive function in children with unilateral cerebral palsy. <i>NeuroImage: Clinical</i> , 2016 , 11, 751-759	5.3	17
80	Training Medical Image Analysis Systems like Radiologists. <i>Lecture Notes in Computer Science</i> , 2018 , 546-554		17
79	2017 ,		15
78	Tree RE-weighted belief propagation using deep learning potentials for mass segmentation from mammograms 2015 ,		15
77	Low-frequency spectroscopic analysis of monomeric and fibrillar lysozyme. <i>Applied Spectroscopy</i> , 2011 , 65, 260-4	3.1	15
76	Automated Segmentation of Skin Strata in Reflectance Confocal Microscopy Depth Stacks. <i>PLoS ONE</i> , 2016 , 11, e0153208	3.7	15
75	Effect of competing stimuli on SSVEP-based BCI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 6307-10	0.9	14
74	ROC curve equivalence using the KolmogorovSmirnov test. <i>Pattern Recognition Letters</i> , 2013 , 34, 470-475	4.7	13
73	Automated analysis of the auditory brainstem response using derivative estimation wavelets. <i>Audiology and Neuro-Otology</i> , 2005 , 10, 6-21	2.2	13
72	Correspondence-free determination of the affine fundamental matrix. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2007 , 29, 82-97	13.3	12
71	Pre and post-hoc diagnosis and interpretation of malignancy from breast DCE-MRI. <i>Medical Image Analysis</i> , 2019 , 58, 101562	15.4	11
70	Deep Learning Models for Classifying Mammogram Exams Containing Unregistered Multi-View Images and Segmentation Maps of Lesions 2017 , 321-339		11
69	Spectral and synchrony differences in auditory brainstem responses evoked by chirps of varying durations. <i>Journal of the Acoustical Society of America</i> , 2010 , 128, 1896-907	2.2	11
68	Alterations in regional shape on ipsilateral and contralateral cortex contrast in children with unilateral cerebral palsy and are predictive of multiple outcomes. <i>Human Brain Mapping</i> , 2016 , 37, 3588-603	5.0	11
67	A method for quantitative analysis of clump thickness in cervical cytology slides. <i>Micron</i> , 2016 , 80, 73-82	2.3	10
66	Multi-scale mass segmentation for mammograms via cascaded random forests 2017 ,		10

65	Producing Radiologist-Quality Reports for Interpretable Deep Learning. 2019,		9
64	2017,		9
63	New spatiotemporal features for improved discrimination of benign and malignant lesions in dynamic contrast-enhanced-magnetic resonance imaging of the breast. <i>Journal of Computer Assisted Tomography</i> , 2011 , 35, 645-52	2.2	9
62	An evaluation of four parametric models of contrast enhancement for dynamic magnetic resonance imaging of the breast. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 71-4		9
61	Sample size estimation using the receiver operating characteristic curve 2004,		8
60	Multisite accelerometry for sleep and wake classification in children. <i>Physiological Measurement</i> , 2015 , 36, 133-47	2.9	7
59	Anatomical Skin Segmentation in Reflectance Confocal Microscopy with Weak Labels 2015,		7
58	The effects of electrode montage on the amplitude of wave V in the auditory brainstem response to maximum length sequence stimuli. <i>Audiology and Neuro-Otology</i> , 2008 , 13, 7-12	2.2	7
57	Conducting shorter VEP tests to estimate visual acuity via assessment of SNR. <i>Documenta Ophthalmologica</i> , 2013 , 126, 21-8	2.2	6
56	Half-AUC for the evaluation of sensitive or specific classifiers. <i>Pattern Recognition Letters</i> , 2014 , 38, 93-98.7		6
55	The audiological health of horn players. <i>Journal of Occupational and Environmental Hygiene</i> , 2013 , 10, 590-6	2.9	6
54	Feature and Classifier Selection for Automatic Classification of Lesions in Dynamic Contrast-Enhanced MRI of the Breast 2009,		6
53	Modeling of a rotary blood pump. <i>Artificial Organs</i> , 2014 , 38, 182-90	2.6	5
52	Estimation of neuronal firing rates with the three-state biological point process model. <i>Journal of Neuroscience Methods</i> , 2008 , 174, 281-91	3	5
51	Using ventricular modeling to robustly probe significant deep gray matter pathologies: Application to cerebral palsy. <i>Human Brain Mapping</i> , 2016 , 37, 3795-3809	5.9	5
50	Dielectric properties of dog brain tissue measured in vitro across the 0.3-3 GHz band. <i>Bioelectromagnetics</i> , 2016 , 37, 549-556	1.6	5
49	How to Exploit Weaknesses in Biomedical Challenge Design and Organization. <i>Lecture Notes in Computer Science</i> , 2018 , 388-395	0.9	5
48	A Parametric Simulation of Neuronal Noise From Microelectrode Recordings. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 1-10	4.8	4

47	Closed-form equation to estimate the dielectric properties of biological tissues as a function of age. <i>Bioelectromagnetics</i> , 2017 , 38, 474-481	1.6	4
46	Model Agnostic Saliency For Weakly Supervised Lesion Detection From Breast DCE-MRI 2019 ,		4
45	2017 ,		4
44	A preliminary investigation into the use of an auditory brainstem response (ABR) simulator for training audiology students in waveform analysis. <i>International Journal of Audiology</i> , 2014 , 53, 514-21	2.6	4
43	The filtered words test and the influence of lexicality. <i>Journal of Speech, Language, and Hearing Research</i> , 2014 , 57, 1722-30	2.8	4
42	Fast assessment of canine hearing using high click-rate BAER. <i>Veterinary Journal</i> , 2011 , 187, 136-8	2.5	4
41	Progress Towards Universal Neonatal Hearing Screening: A World Review. <i>Australian and New Zealand Journal of Audiology</i> , 2009 , 31, 3-14		4
40	Physiologic parameters that affect pulse transit time difference between the upper and lower limbs in children. <i>Journal of Human Hypertension</i> , 2006 , 20, 221-3	2.6	4
39	Fully Automatic Computer-aided Mass Detection and Segmentation via Pseudo-color Mammograms and Mask R-CNN 2020 ,		4
38	Identifying relevant biomarkers of brain injury from structural MRI: Validation using automated approaches in children with unilateral cerebral palsy. <i>PLoS ONE</i> , 2017 , 12, e0181605	3.7	3
37	An algorithm for microscopic specimen delineation and focus candidate selection. <i>Micron</i> , 2014 , 66, 51-62	3	3
36	Multiple instance learning for breast MRI based on generic spatio-temporal features 2015 ,		3
35	Enhancing the classification accuracy of Steady-State Visual Evoked Potential-based Brain-Computer Interface using Component Synchrony Measure 2012 ,		3
34	Visual quality assessment of watermarked medical images 2007 ,		3
33	On the dual structure of the auditory brainstem response in dogs. <i>Clinical Neurophysiology</i> , 2006 , 117, 2211-20	4.3	3
32	Automated analysis of the auditory brainstem response		3
31	Combining Deep Learning and Structured Prediction for Segmenting Masses in Mammograms. <i>Advances in Computer Vision and Pattern Recognition</i> , 2017 , 225-240	1.1	3
30	Temporal associations between arousal and body/limb movement in children with suspected obstructed sleep apnoea. <i>Physiological Measurement</i> , 2016 , 37, 115-27	2.9	3

29	Multi-scale sifting for mammographic mass detection and segmentation. <i>Biomedical Physics and Engineering Express</i> , 2019 , 5, 025022	1.5	3
28	Evaluation of a morphological filter in mean cardiac output determination: application to left ventricular assist devices. <i>Medical and Biological Engineering and Computing</i> , 2013 , 51, 891-9	3.1	2
27	Expectation-Maximization with Image-Weighted Markov Random Fields to Handle Severe Pathology 2015 ,		2
26	Multiple Instance Learning for Breast Cancer Magnetic Resonance Imaging 2014 ,		2
25	A Comparison of Multiple Instance and Group Based Learning 2012 ,		2
24	On the Estimation of Extrinsic and Intrinsic Parameters of Optical Microscope Calibration 2010 ,		2
23	A new denoising method for dynamic contrast-enhanced MRI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 847-50	0.9	2
22	Automatic Segmentation of Enhancing Breast Tissue in Dynamic Contrast-Enhanced MR Images 2007 ,		2
21	A Comparison of DCT and DWT Block Based Watermarking on Medical Image Quality. <i>Lecture Notes in Computer Science</i> , 2008 , 454-466	0.9	2
20	Validation and algorithmic audit of a deep learning system for the detection of proximal femoral fractures in patients in the emergency department: a diagnostic accuracy study.. <i>The Lancet Digital Health</i> , 2022 ,	14.4	2
19	A two-stage method to correct aberrations induced by slide slant in bright-field microscopy. <i>Micron</i> , 2016 , 87, 18-32	2.3	1
18	Ethics for Biomedical Engineers 2013 ,		1
17	Effect of posterized naturalistic stimuli on SSVEP-based BCI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 3105-8	0.9	1
16	Group-based meta-classification 2008 ,		1
15	Over-complete discrete wavelet transformation of the normal auditory brainstem response improves prediction of outcome following severe acute closed head injury. <i>Audiology and Neuro-Otology</i> , 2006 , 11, 249-58	2.2	1
14	A system to generate patient-specific stimuli for use with the auditory brainstem response test. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 2452-5		1
13	Over-sampling for accurate masking threshold calculation wavelet packet audio coders		1
12	Taking the Confusion Out of Multinomial Confusion Matrices and Imbalanced Classes. <i>Communications in Computer and Information Science</i> , 2021 , 16-30	0.3	1

11	A Starling-like total work controller for rotary blood pumps: An in vitro evaluation. <i>Artificial Organs</i> , 2020 , 44, E40-E53	2.6	1
10	Investigation of the inherent left-right flow balancing of rotary total artificial hearts by means of a resistance box. <i>Artificial Organs</i> , 2020 , 44, 584-593	2.6	1
9	Deep Reinforcement Learning for Detecting Breast Lesions from DCE-MRI. <i>Advances in Computer Vision and Pattern Recognition</i> , 2019 , 163-178	1.1	0
8	Analysis of the non-Markov parameter in continuous-time signal processing. <i>Physical Review E</i> , 2014 , 89, 022109	2.4	
7	Characterization of movements during restless sleep in children: a pilot study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 274-7	0.9	
6	Screening of obstructive and central apnoea/hypopnoea in children using variability: A preliminary study. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2007 , 95, 561-564	3.1	
5	The Effect of Domain Knowledge on Rule Extraction from Support Vector Machines. <i>Lecture Notes in Computer Science</i> , 2009 , 311-321	0.9	
4	Ethics and Data Mining in Biomedical Engineering 2013 , 77-97		
3	Illumination Effects in Quantitative Virtual Microscopy. <i>Lecture Notes in Computer Science</i> , 2013 , 449-456	0.9	
2	Extended Naïve Bayes for Group Based Classification. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 497-505	0.4	
1	Towards data-driven quantification of skin ageing using reflectance confocal microscopy. <i>International Journal of Cosmetic Science</i> , 2021 , 43, 466-473	2.7	