

Andrew P Bradley

List of Publications by Year in descending order

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Version: 2024-02-01

127
papers

8,864
citations

186265
28
h-index

60623
81
g-index

133
all docs

133
docs citations

133
times ranked

10686
citing authors

#	ARTICLE	IF	CITATIONS
1	The use of the area under the ROC curve in the evaluation of machine learning algorithms. Pattern Recognition, 1997, 30, 1145-1159.	8.1	5,024
2	Perceptual quality metrics applied to still image compression. Signal Processing, 1998, 70, 177-200.	3.7	286
3	Intelligible Support Vector Machines for Diagnosis of Diabetes Mellitus. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 1114-1120.	3.2	249
4	A deep learning approach for the analysis of masses in mammograms with minimal user intervention. Medical Image Analysis, 2017, 37, 114-128.	11.6	248
5	Why rankings of biomedical image analysis competitions should be interpreted with care. Nature Communications, 2018, 9, 5217.	12.8	198
6	Rule extraction from support vector machines: A review. Neurocomputing, 2010, 74, 178-190.	5.9	174
7	An Improved Joint Optimization of Multiple Level Set Functions for the Segmentation of Overlapping Cervical Cells. IEEE Transactions on Image Processing, 2015, 24, 1261-1272.	9.8	169
8	Automated Analysis of Unregistered Multi-View Mammograms With Deep Learning. IEEE Transactions on Medical Imaging, 2017, 36, 2355-2365.	8.9	139
9	Automated Mass Detection in Mammograms Using Cascaded Deep Learning and Random Forests. , 2015, , .		128
10	Precision Radiology: Predicting longevity using feature engineering and deep learning methods in a radiomics framework. Scientific Reports, 2017, 7, 1648.	3.3	123
11	Unregistered Multiview Mammogram Analysis with Pre-trained Deep Learning Models. Lecture Notes in Computer Science, 2015, , 652-660.	1.3	121
12	A wavelet visible difference predictor. IEEE Transactions on Image Processing, 1999, 8, 717-730.	9.8	116
13	Evaluation of Three Algorithms for the Segmentation of Overlapping Cervical Cells. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 441-450.	6.3	94
14	Rule Extraction from Support Vector Machines: A Sequential Covering Approach. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 729-741.	5.7	83
15	Deep Learning and Structured Prediction for the Segmentation of Mass in Mammograms. Lecture Notes in Computer Science, 2015, , 605-612.	1.3	77
16	The Automated Learning of Deep Features for Breast Mass Classification from Mammograms. Lecture Notes in Computer Science, 2016, , 106-114.	1.3	72
17	Stimulus specificity of a steady-state visual-evoked potential-based brainâ€“computer interface. Journal of Neural Engineering, 2012, 9, 036008.	3.5	70
18	On wavelet analysis of auditory evoked potentials. Clinical Neurophysiology, 2004, 115, 1114-1128.	1.5	67

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19	Denoising of Dynamic Contrast-Enhanced MR Images Using Dynamic Nonlocal Means. IEEE Transactions on Medical Imaging, 2010, 29, 302-310.	8.9	59
20	Visual attention for region of interest coding in JPEG 2000. Journal of Visual Communication and Image Representation, 2003, 14, 232-250.	2.8	58
21	Deep Reinforcement Learning for Active Breast Lesion Detection from DCE-MRI. Lecture Notes in Computer Science, 2017, , 665-673.	1.3	55
22	Precision-recall operating characteristic (P-ROC) curves in imprecise environments. , 2006, , .		52
23	Automated Nucleus and Cytoplasm Segmentation of Overlapping Cervical Cells. Lecture Notes in Computer Science, 2013, 16, 452-460.	1.3	52
24	Fully automated classification of mammograms using deep residual neural networks. , 2017, , .		46
25	Teaching Histology to First-Year Veterinary Science Students Using Virtual Microscopy and Traditional Microscopy: A Comparison of Student Responses. Journal of Veterinary Medical Education, 2007, 34, 177-182.	0.6	45
26	The multiscale classifier. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1996, 18, 124-137.	13.9	42
27	Nature of orchestral noise. Journal of the Acoustical Society of America, 2008, 124, 926-939.	1.1	39
28	Deep structured learning for mass segmentation from mammograms. , 2015, , .		39
29	Physiological Control of Dual Rotary Pumps as a Biventricular Assist Device Using a Master/Slave Approach. Artificial Organs, 2014, 38, n/a-n/a.	1.9	37
30	Nearest neighbour group-based classification. Pattern Recognition, 2010, 43, 3458-3467.	8.1	36
31	On chirp stimuli and neural synchrony in the suprathreshold auditory brainstem response. Journal of the Acoustical Society of America, 2010, 128, 235-246.	1.1	32
32	A Hybrid Mock Circulation Loop for a Total Artificial Heart. Artificial Organs, 2014, 38, 775-782.	1.9	32
33	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. The Lancet Digital Health, 2022, 4, e351-e358.	12.3	31
34	Use of Pulse Transit Time To Distinguish Respiratory Events From Tidal Breathing in Sleeping Children. Chest, 2005, 128, 3013-3019.	0.8	27
35	Far-Infrared Spectroscopy of Protein Higher-Order Structures. Applied Spectroscopy, 2010, 64, 1259-1264.	2.2	27
36	Training Medical Image Analysis Systems like Radiologists. Lecture Notes in Computer Science, 2018, , 546-554.	1.3	27

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37	Screening of obstructive and central apnoea/hypopnoea in children using variability: A preliminary study. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2006, 95, 561-564.	1.5	26
38	Rule Extraction from Support Vector Machines: Measuring the Explanation Capability Using the Area under the ROC Curve. , 2006, , .		25
39	Producing Radiologist-Quality Reports for Interpretable Deep Learning. , 2019, , .		24
40	ROC curves and the X2 test. <i>Pattern Recognition Letters</i> , 1996, 17, 287-294.	4.2	22
41	Effect of competing stimuli on SSVEP-based BCI. , 2011, 2011, 6307-10.		21
42	ROC curve equivalence using the Kolmogorov-Smirnov test. <i>Pattern Recognition Letters</i> , 2013, 34, 470-475.	4.2	21
43	Tree RE-weighted belief propagation using deep learning potentials for mass segmentation from mammograms. , 2015, , .		21
44	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, 3588-3603.	3.6	21
45	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.	2.7	20
46	Globally optimal breast mass segmentation from DCE-MRI using deep semantic segmentation as shape prior. , 2017, , .		20
47	Fully Automatic Computer-aided Mass Detection and Segmentation via Pseudo-color Mammograms and Mask R-CNN. , 2020, , .		19
48	Deep Learning Models for Classifying Mammogram Exams Containing Unregistered Multi-View Images and Segmentation Maps of Lesions11This work is an extension of the paper published by the same authors at the Medical Image Computing and Computer-Assisted Intervention (MICCAI 2015) [1].. , 2017, , 321-339.		18
49	Pre and post-hoc diagnosis and interpretation of malignancy from breast DCE-MRI. <i>Medical Image Analysis</i> , 2019, 58, 101562.	11.6	18
50	Automated Segmentation of Skin Strata in Reflectance Confocal Microscopy Depth Stacks. <i>PLoS ONE</i> , 2016, 11, e0153208.	2.5	18
51	Low-Frequency Spectroscopic Analysis of Monomeric and Fibrillar Lysozyme. <i>Applied Spectroscopy</i> , 2011, 65, 260-264.	2.2	17
52	Automated 5-year mortality prediction using deep learning and radiomics features from chest computed tomography. , 2017, , .		17
53	Automated Analysis of the Auditory Brainstem Response Using Derivative Estimation Wavelets. <i>Audiology and Neuro-Otology</i> , 2005, 10, 6-21.	1.3	15
54	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, 1896-1907.	1.1	15

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55	Correspondence-Free Determination of the Affine Fundamental Matrix. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 82-97.	13.9	13
56	A method for quantitative analysis of clump thickness in cervical cytology slides. Micron, 2016, 80, 73-82.	2.2	13
57	Conducting shorter VEP tests to estimate visual acuity via assessment of SNR. Documenta Ophthalmologica, 2013, 126, 21-28.	2.2	12
58	An evaluation of four parametric models of contrast enhancement for dynamic magnetic resonance imaging of the breast. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 71-4.	0.5	11
59	Identifying relevant biomarkers of brain injury from structural MRI: Validation using automated approaches in children with unilateral cerebral palsy. PLoS ONE, 2017, 12, e0181605.	2.5	11
60	Closed-form equation to estimate the dielectric properties of biological tissues as a function of age. Bioelectromagnetics, 2017, 38, 474-481.	1.6	10
61	Multi-scale mass segmentation for mammograms via cascaded random forests. , 2017, , .		10
62	How to Exploit Weaknesses in Biomedical Challenge Design and Organization. Lecture Notes in Computer Science, 2018, , 388-395.	1.3	10
63	Sample size estimation using the receiver operating characteristic curve. , 2004, , .		9
64	New Spatiotemporal Features for Improved Discrimination of Benign and Malignant Lesions in Dynamic Contrast-Enhanced-Magnetic Resonance Imaging of the Breast. Journal of Computer Assisted Tomography, 2011, 35, 645-652.	0.9	9
65	Model Agnostic Saliency For Weakly Supervised Lesion Detection From Breast DCE-MRI. , 2019, , .		9
66	Automated Analysis of the Auditory Brainstem Response. , 0, , .		8
67	The Effects of Electrode Montage on the Amplitude of Wave V in the Auditory Brainstem Response to Maximum Length Sequence Stimuli. Audiology and Neuro-Otology, 2008, 13, 7-12.	1.3	8
68	Multisite accelerometry for sleep and wake classification in children. Physiological Measurement, 2015, 36, 133-147.	2.1	8
69	Dielectric properties of dog brain tissue measured in vitro across the 0.3-3 GHz band. Bioelectromagnetics, 2016, 37, 549-556.	1.6	8
70	Mass segmentation in mammograms: A cross-sensor comparison of deep and tailored features. , 2017, , .		8
71	Feature and Classifier Selection for Automatic Classification of Lesions in Dynamic Contrast-Enhanced MRI of the Breast. , 2009, , .		7
72	Half-AUC for the evaluation of sensitive or specific classifiers. Pattern Recognition Letters, 2014, 38, 93-98.	4.2	7

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73	Anatomical Skin Segmentation in Reflectance Confocal Microscopy with Weak Labels. , 2015, , .		7
74	A Comparison of DCT and DWT Block Based Watermarking on Medical Image Quality. Lecture Notes in Computer Science, 2008, , 454-466.	1.3	7
75	The Audiological Health of Horn Players. Journal of Occupational and Environmental Hygiene, 2013, 10, 590-596.	1.0	6
76	A preliminary investigation into the use of an auditory brainstem response (ABR) simulator for training audiology students in waveform analysis. International Journal of Audiology, 2014, 53, 514-521.	1.7	6
77	The Filtered Words Test and the Influence of Lexicality. Journal of Speech, Language, and Hearing Research, 2014, 57, 1722-1730.	1.6	6
78	Modeling of a Rotary Blood Pump. Artificial Organs, 2014, 38, 182-190.	1.9	6
79	A Starling-like total work controller for rotary blood pumps: An in vitro evaluation. Artificial Organs, 2020, 44, E40-E53.	1.9	6
80	Combining Deep Learning and Structured Prediction for Segmenting Masses in Mammograms. Advances in Computer Vision and Pattern Recognition, 2017, , 225-240.	1.3	6
81	Physiologic parameters that affect pulse transit time difference between the upper and lower limbs in children. Journal of Human Hypertension, 2006, 20, 221-223.	2.2	5
82	Estimation of neuronal firing rates with the three-state biological point process model. Journal of Neuroscience Methods, 2008, 174, 281-291.	2.5	5
83	Fast assessment of canine hearing using high click-rate BAER. Veterinary Journal, 2011, 187, 136-138.	1.7	5
84	Using ventricular modeling to robustly probe significant deep gray matter pathologies: Application to cerebral palsy. Human Brain Mapping, 2016, 37, 3795-3809.	3.6	5
85	Multi-scale sifting for mammographic mass detection and segmentation. Biomedical Physics and Engineering Express, 2019, 5, 025022.	1.2	5
86	On the dual structure of the auditory brainstem response in dogs. Clinical Neurophysiology, 2006, 117, 2211-2220.	1.5	4
87	Visual quality assessment of watermarked medical images. , 2007, , .		4
88	Progress Towards Universal Neonatal Hearing Screening: A World Review. Australian and New Zealand Journal of Audiology, 2009, 31, 3-14.	0.3	4
89	An Evaluation of Multi-resolution Microscope Slide Scanning Algorithms. , 2011, , .		4
90	Enhancing the classification accuracy of Steady-State Visual Evoked Potential-based Brain-Computer Interface using Component Synchrony Measure. , 2012, , .		4

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91	Multiple instance learning for breast MRI based on generic spatio-temporal features. , 2015, , .		4
92	Temporal associations between arousal and body/limb movement in children with suspected obstructed sleep apnoea. Physiological Measurement, 2016, 37, 115-127.	2.1	4
93	A Parametric Simulation of Neuronal Noise From Microelectrode Recordings. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 4-13.	4.9	4
94	Group-based meta-classification. , 2008, , .		3
95	On the Estimation of Extrinsic and Intrinsic Parameters of Optical Microscope Calibration. , 2010, , .		3
96	Multiple Instance Learning for Breast Cancer Magnetic Resonance Imaging. , 2014, , .		3
97	An algorithm for microscopic specimen delineation and focus candidate selection. Micron, 2014, 66, 51-62.	2.2	3
98	Investigation of the inherent leftâ€right flow balancing of rotary total artificial hearts by means of a resistance box. Artificial Organs, 2020, 44, 584-593.	1.9	3
99	Over-sampling for accurate masking thershold calculation wavelet packet audio coders. , 0, , .		2
100	Automatic Segmentation of Enhancing Breast Tissue in Dynamic Contrast-Enhanced MR Images. , 2007, , .		2
101	A new denoising method for dynamic contrast-enhanced MRI. , 2008, 2008, 847-50.		2
102	A Comparison of Multiple Instance and Group Based Learning. , 2012, , .		2
103	Ethics for Biomedical Engineers. , 2013, , .		2
104	Evaluation of a morphological filter in mean cardiac output determination: application to left ventricular assist devices. Medical and Biological Engineering and Computing, 2013, 51, 891-899.	2.8	2
105	Performance Analysis of Three Microscope Slide Scanning Techniques. , 2013, , .		2
106	Microscopic specimen delineation using auto-phase correlation index. , 2014, , .		2
107	Expectation-Maximization with Image-Weighted Markov Random Fields to Handle Severe Pathology. , 2015, , .		2
108	Over-Complete Discrete Wavelet Transformation of the Normal Auditory Brainstem Response Improves Prediction of Outcome following Severe Acute Closed Head Injury. Audiology and Neuro-Otology, 2006, 11, 249-258.	1.3	1

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109	A System to Generate Patient-Specific Stimuli for use with the Auditory Brainstem Response Test. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2452-5.	0.5	1
110	Mixed content image compression by gradient field integration. , 2008, , .		1
111	Effect of posterized naturalistic stimuli on SSVEP-based BCI. , 2013, 2013, 3105-8.		1
112	A two-stage method to correct aberrations induced by slide slant in bright-field microscopy. Micron, 2016, 87, 18-32.	2.2	1
113	Towards data-driven quantification of skin ageing using reflectance confocal microscopy. International Journal of Cosmetic Science, 2021, 43, 466-473.	2.6	1
114	Deep Reinforcement Learning for Detecting Breast Lesions from DCE-MRI. Advances in Computer Vision and Pattern Recognition, 2019, , 163-178.	1.3	1
115	3D Motion Estimation from Three Orthographic Views without Matching Constraints or Brightness Gradients. , 2006, , .		0
116	Screening of obstructive and central apnoea/hypopnoea in children using variability: A preliminary study. Acta Paediatrica, International Journal of Paediatrics, 2006, 95, 561-564.	1.5	0
117	Profiling the change in refractive index using the self-mixing effect in lasers. , 2012, , .		0
118	Analysis of the non-Markov parameter in continuous-time signal processing. Physical Review E, 2014, 89, 022109.	2.1	0
119	Characterization of movements during restless sleep in children: A pilot study. , 2014, 2014, 274-7.		0
120	Spikes from compound action potentials in simulated microelectrode recordings. , 2015, , .		0
121	Segmentation of skin strata in reflectance confocal microscopy depth stacks. , 2015, , .		0
122	Spectral properties of neuronal pulse interval modulation. , 2015, , .		0
123	1st MICCAI workshop on deep learning in medical image analysis. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 241-242.	1.9	0
124	Ethics and Data Mining in Biomedical Engineering. , 2013, , 77-97.		0
125	Illumination Effects in Quantitative Virtual Microscopy. Lecture Notes in Computer Science, 2013, , 449-456.	1.3	0
126	Automatic lesion detection, segmentation and characterization via 3D multiscale morphological sifting in breast MRI. Biomedical Physics and Engineering Express, 2020, 6, 065027.	1.2	0

#	ARTICLE	IF	CITATIONS
127	Correction to: Taking the Confusion Out of Multinomial Confusion Matrices and Imbalanced Classes. Communications in Computer and Information Science, 2022, , C1-C1.	0.5	0