

# Nigel M Allinson

## List of Publications by Year in descending order

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73  
papers

1,751  
citations

516710

16  
h-index

345221

36  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1769  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterising Virtual Eigensignatures for General Purpose Face Recognition. , 1998, , 446-456.		379
2	A comprehensive review of current local features for computer vision. Neurocomputing, 2008, 71, 1771-1787.	5.9	239
3	Automated brain tumour detection and segmentation using superpixel-based extremely randomized trees in FLAIR MRI. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 183-203.	2.8	222
4	Supervised learning based multimodal MRI brain tumour segmentation using texture features from supervoxels. Computer Methods and Programs in Biomedicine, 2018, 157, 69-84.	4.7	163
5	Multitraining Support Vector Machine for Image Retrieval. IEEE Transactions on Image Processing, 2006, 15, 3597-3601.	9.8	113
6	Automatic Individual Pig Detection and Tracking in Pig Farms. Sensors, 2019, 19, 1188.	3.8	82
7	Image denoising using self-organizing map-based nonlinear independent component analysis. Neural Networks, 2002, 15, 1085-1098.	5.9	57
8	On the Distribution and Convergence of Feature Space in Self-Organizing Maps. Neural Computation, 1995, 7, 1178-1187.	2.2	56
9	PRaVDA: The first solid-state system for proton computed tomography. Physica Medica, 2018, 55, 149-154.	0.7	36
10	Automated encoding of footwear patterns for fast indexing. Image and Vision Computing, 2009, 27, 402-409.	4.5	34
11	Building Recognition Using Local Oriented Features. IEEE Transactions on Industrial Informatics, 2013, 9, 1697-1704.	11.3	28
12	Automatic Extraction and Classification of Footwear Patterns. Lecture Notes in Computer Science, 2006, , 721-728.	1.3	26
13	Building recognition in urban environments: A survey of state-of-the-art and future challenges. Information Sciences, 2014, 277, 406-420.	6.9	25
14	A Charge Coupled Device Array Detector for Single-Wavelength and Multiwavelength Ultraviolet Absorbance in Capillary Electrophoresis. Analytical Chemistry, 1999, 71, 4376-4384.	6.5	24
15	Automatic image quality assessment and measurement of fetal head in two-dimensional ultrasound image. Journal of Medical Imaging, 2017, 4, 024001.	1.5	24
16	N-tuple Regression Network. Neural Networks, 1996, 9, 855-869.	5.9	18
17	Familiar face recognition: A comparative study of a connectionist model and human performance. Neurocomputing, 1995, 7, 3-27.	5.9	17
18	Subspace learning-based dimensionality reduction in building recognition. Neurocomputing, 2009, 73, 324-330.	5.9	17

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19	Relevance Feedback in Content-Based Image Retrieval: A Survey. Intelligent Systems Reference Library, 2013, , 433-469.	1.2	17
20	A hybrid model for predicting human physical activity status from lifelogging data. European Journal of Operational Research, 2020, 281, 532-542.	5.7	16
21	Dynamic analysis of capillary electrophoresis data using real-time neural networks. Journal of Chromatography A, 1999, 833, 231-244.	3.7	11
22	Characterisation of regional variations in a stitched CMOS active pixel sensor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 620, 540-548.	1.6	11
23	Robust Wireless Transmission of Compressed Latent Fingerprint Images. IEEE Transactions on Information Forensics and Security, 2007, 2, 331-340.	6.9	9
24	Basis function models of the CMAC network. Neural Networks, 1999, 12, 107-126.	5.9	8
25	Towards real-time VMAT verification using a prototype, high-speed CMOS active pixel sensor. Physics in Medicine and Biology, 2013, 58, 3359-3375.	3.0	8
26	Long-term learning in content-based image retrieval. International Journal of Imaging Systems and Technology, 2008, 18, 160-169.	4.1	6
27	A 54mm x 54mm &#x2014; 1.8Megapixel CMOS image sensor for medical imaging. , 2008, , .		6
28	FINANCIAL DATA RECOGNITION AND PREDICTION USING NEURAL NETWORKS. , 1991, , 1709-1712.		6
29	eLeNA: A Parametric CMOS Active-Pixel Sensor for the Evaluation of Reset Noise Reduction Architectures. IEEE Transactions on Electron Devices, 2010, 57, 2163-2175.	3.0	5
30	Document Clustering Using the 1 + 1 Dimensional Self-Organising Map. Lecture Notes in Computer Science, 2002, , 154-160.	1.3	5
31	Testing of gadolinium oxy-sulphide phosphors for use in CCD-based X-ray detectors for macromolecular crystallography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 477, 353-359.	1.6	4
32	Large area high-resolution CCD-based X-ray detector for macromolecular crystallography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 477, 166-171.	1.6	4
33	Combining Lateral and Elastic Interactions: Topology-Preserving Elastic Nets. Neural Processing Letters, 2002, 15, 213-223.	3.2	4
34	FPGA Implementation of Pipelined Architecture for Optical Imaging Distortion Correction. Signal Processing Systems Design and Implementation (siPS), IEEE Workshop on, 2006, , .	0.0	4
35	GA-Neural Approach for Latent Finger Print Matching. , 2011, , .		4
36	<title>Development of large-area CCD-based x-ray detector for macromolecular crystallography</title>. , 1999, , .		3

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37	A double area detector system for simultaneous small and wide-angle X-ray scattering. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 477, 329-334.	1.6	3
38	FPGA-based Optical Distortion Correction for Imaging Systems. , 2006, , .		3
39	Imaging of moving fiducial markers during radiotherapy using a fast, efficient active pixel sensor based EPID. Medical Physics, 2011, 38, 6152-6159.	3.0	3
40	The Use of Field-Programmable Gate Arrays for the Hardware Acceleration of Design Automation Tasks. VLSI Design, 1996, 4, 135-139.	0.5	2
41	Common framework for "topographic" and "elastic" computations. AIP Conference Proceedings, 2000, , .	0.4	2
42	<title>Neural-net-based image matching</title>. , 2000, 3962, 128.		2
43	Using a large area CMOS APS for direct chemiluminescence detection in Western blotting electrophoresis. , 2012, , .		2
44	Relating vanishing points to catadioptric camera calibration. , 2013, , .		2
45	Nonlinear Blind Source Separation Using SOMs and Applications to Image Denoising. , 2001, , 275-282.		2
46	Neurons, N-tuples and faces. Computing & Control Engineering Journal, 1990, 1, 173.	0.0	2
47	On the distribution of feature space in Self-Organising mapping and convergence accelerating by a Kalman algorithm. Lecture Notes in Computer Science, 1993, , 291-296.	1.3	2
48	The Rome detector workshop. Synchrotron Radiation News, 1993, 6, 4-6.	0.8	1
49	Time-resolved biological and perturbation chemical crystallography: Laue and monochromatic developments. , 1995, , .		1
50	Performance Model for High Spatial Resolution CsI Scintillator Screens Coupled to CCD Detectors. Journal of X-Ray Science and Technology, 1995, 5, 207-220.	1.0	1
51	The general memory neural network and its relationship with basis function architectures. Neurocomputing, 1999, 29, 57-84.	5.9	1
52	Integration of macromolecular diffraction data using radial basis function networks. Journal of Synchrotron Radiation, 2000, 7, 386-394.	2.4	1
53	Spatial Optical Distortion Correction in an FPGA. Signal Processing Systems Design and Implementation (siPS), IEEE Workshop on, 2006, , .	0.0	1
54	Relevance feedback-based building recognition. Proceedings of SPIE, 2010, , .	0.8	1

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55	Evaluation of a novel wafer-scale CMOS APS X-ray detector for use in mammography. , 2012, , .		1
56	A J-Linkage Based Approach for Vanishing Direction Estimation in Catadioptric Images. , 2014, , .		1
57	Reconfigurable Logic Implementation of Memory-Based Neural Networks: A Case Study of the CMAC Network. , 1994, , 177-186.		1
58	Visualisation of Multi-agent System Organisations Using a Self-organising Map of Pareto Solutions. Lecture Notes in Computer Science, 2004, , 841-847.	1.3	1
59	LS Footwear Database - Evaluating Automated Footwear Pattern Analysis. Lecture Notes in Computer Science, 2009, , 445-454.	1.3	1
60	A Real-Time Image Acquisition And Processing System For A RISC-Based Microcomputer. Proceedings of SPIE, 1989, , .	0.8	0
61	<title>Characterization of soft x-ray damage in charge-coupled devices</title>. , 1990, 1242, 94.		0
62	Modelling Peripheral Pre-Attention And Foveal Fixation For Search Directed Machine Vision Systems. Proceedings of SPIE, 1990, 1197, 99.	0.8	0
63	High-dynamic-range active pixel sensor. , 2004, 5301, 149.		0
64	A novel model-based approach for 3D footwear outsole feature extraction. , 2009, , .		0
65	Self-Organising Maps for Condition Assessment of Paper Insulated Cables. , 2001, , 253-258.		0
66	Adaptive Filtering for GARCH Models. Lecture Notes in Computer Science, 2002, , 416-422.	1.3	0
67	Combining linear and neural processing in analytic instrumentsâ€™ or when to switch on your neurons. Special Publication - Royal Society of Chemistry, 2007, , 64-79.	0.0	0
68	Footwear Recognition. , 2009, , 557-562.		0
69	Fingerprint Compression. , 2009, , 446-452.		0
70	Automatic Conic and Line Grouping for Calibration of Central Catadioptric Camera. Lecture Notes in Computer Science, 2011, , 68-75.	1.3	0
71	Implementation of a Variable Cluster Self Organising Algorithm for High Speed Unsupervised Pattern Classification (Lost in {0,1} N space). , 1990, , .		0
72	Perception and Cognition. , 1996, , .		0

#	ARTICLE	IF	CITATIONS
73	Unsupervised segmentation of textured images. , 0, , .		0