

# Simon Denman

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

2,210  
citations

304743

22  
h-index

302126

39  
g-index

79  
all docs

79  
docs citations

79  
times ranked

1684  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft + Hardwired attention: An LSTM framework for human trajectory prediction and abnormal event detection. <i>Neural Networks</i> , 2018, 108, 466-478.	5.9	237
2	Crowd Counting Using Multiple Local Features. , 2009, , .		199
3	An evaluation of crowd counting methods, features and regression models. <i>Computer Vision and Image Understanding</i> , 2015, 130, 1-17.	4.7	112
4	Deep Learning for Medical Anomaly Detection – A Survey. <i>ACM Computing Surveys</i> , 2022, 54, 1-37.	23.0	96
5	Graph-Based Deep Learning for Medical Diagnosis and Analysis: Past, Present and Future. <i>Sensors</i> , 2021, 21, 4758.	3.8	90
6	Fruit Quantity and Ripeness Estimation Using a Robotic Vision System. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 2995-3002.	5.1	75
7	An adaptive optical flow technique for person tracking systems. <i>Pattern Recognition Letters</i> , 2007, 28, 1232-1239.	4.2	72
8	Deep Learning for Patient-Independent Epileptic Seizure Prediction Using Scalp EEG Signals. <i>IEEE Sensors Journal</i> , 2021, 21, 9377-9388.	4.7	68
9	Automated detection of koalas using low-level aerial surveillance and machine learning. <i>Scientific Reports</i> , 2019, 9, 3208.	3.3	58
10	Predicting the Future: A Jointly Learnt Model for Action Anticipation. , 2019, , .		49
11	A Robust Interpretable Deep Learning Classifier for Heart Anomaly Detection Without Segmentation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 2162-2171.	6.3	48
12	Score-Level Multibiometric Fusion Based on Dempster–Shafer Theory Incorporating Uncertainty Factors. <i>IEEE Transactions on Human-Machine Systems</i> , 2015, 45, 132-140.	3.5	47
13	Improved Simultaneous Computation of Motion Detection and Optical Flow for Object Tracking. , 2009, , .		46
14	Heart Sound Segmentation Using Bidirectional LSTMs With Attention. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 1601-1609.	6.3	45
15	Identification of Children at Risk of Schizophrenia via Deep Learning and EEG Responses. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 69-76.	6.3	44
16	Scene invariant multi camera crowd counting. <i>Pattern Recognition Letters</i> , 2014, 44, 98-112.	4.2	43
17	Deep facial analysis: A new phase I epilepsy evaluation using computer vision. <i>Epilepsy and Behavior</i> , 2018, 82, 17-24.	1.7	41
18	Deep Inverse Reinforcement Learning for Behavior Prediction in Autonomous Driving: Accurate Forecasts of Vehicle Motion. <i>IEEE Signal Processing Magazine</i> , 2021, 38, 87-96.	5.6	41

#	ARTICLE	IF	CITATIONS
19	Geometric Deep Learning for Subject Independent Epileptic Seizure Prediction Using Scalp EEG Signals. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 527-538.	6.3	39
20	Detecting changes in facial temperature induced by a sudden auditory stimulus based on deep learning-assisted face tracking. Scientific Reports, 2019, 9, 4729.	3.3	38
21	Tree Memory Networks for modelling long-term temporal dependencies. Neurocomputing, 2018, 304, 64-81.	5.9	31
22	Fine-grained action segmentation using the semi-supervised action GAN. Pattern Recognition, 2020, 98, 107039.	8.1	30
23	Searching for people using semantic soft biometric descriptions. Pattern Recognition Letters, 2015, 68, 306-315.	4.2	29
24	GD-GAN: Generative Adversarial Networks for Trajectory Prediction and Group Detection in Crowds. Lecture Notes in Computer Science, 2019, , 314-330.	1.3	29
25	Feature-domain super-resolution for iris recognition. Computer Vision and Image Understanding, 2013, 117, 1526-1535.	4.7	28
26	Neural Memory Networks for Seizure Type Classification. , 2020, 2020, 569-575.		28
27	Going Deeper: Autonomous Steering with Neural Memory Networks. , 2017, , .		26
28	A hierarchical multimodal system for motion analysis in patients with Epilepsy. Epilepsy and Behavior, 2018, 87, 46-58.	1.7	24
29	Understanding Patients' Behavior: Vision-Based Analysis of Seizure Disorders. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2583-2591.	6.3	23
30	Neural memory plasticity for medical anomaly detection. Neural Networks, 2020, 127, 67-81.	5.9	23
31	TMMF: Temporal Multi-Modal Fusion for Single-Stage Continuous Gesture Recognition. IEEE Transactions on Image Processing, 2021, 30, 7689-7701.	9.8	23
32	Locating People in Video from Semantic Descriptions: A New Database and Approach. , 2014, , .		22
33	Crowd Counting Using Group Tracking and Local Features. , 2010, , .		19
34	Detecting rare events using Kullback-Leibler divergence: A weakly supervised approach. Expert Systems With Applications, 2016, 54, 13-28.	7.6	19
35	Deep Motion Analysis for Epileptic Seizure Classification. , 2018, 2018, 3578-3581.		19
36	Task Specific Visual Saliency Prediction with Memory Augmented Conditional Generative Adversarial Networks. , 2018, , .		18

#	ARTICLE	IF	CITATIONS
37	Aberrant epileptic seizure identification: A computer vision perspective. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2019, 65, 65-71.	2.0	16
38	Fruit Detection in the Wild: The Impact of Varying Conditions and Cultivar. , 2020, , .		16
39	Robust and Interpretable Temporal Convolution Network for Event Detection in Lung Sound Recordings. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 2898-2908.	6.3	16
40	Automatic surveillance in transportation hubs: No longer just about catching the bad guy. <i>Expert Systems With Applications</i> , 2015, 42, 9449-9467.	7.6	15
41	Affect recognition from scalp-EEG using channel-wise encoder networks coupled with geometric deep learning and multi-channel feature fusion. <i>Knowledge-Based Systems</i> , 2022, 250, 109038.	7.1	15
42	Coupled Generative Adversarial Network for Continuous Fine-Grained Action Segmentation. , 2019, , .		14
43	Interpretable Seizure Classification Using Unprocessed EEG With Multi-Channel Attentive Feature Fusion. <i>IEEE Sensors Journal</i> , 2021, 21, 19186-19197.	4.7	14
44	Detection of Fake and Fraudulent Faces via Neural Memory Networks. <i>IEEE Transactions on Information Forensics and Security</i> , 2021, 16, 1973-1988.	6.9	14
45	Channel Graph Regularized Correlation Filters for Visual Object Tracking. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2022, 32, 715-729.	8.3	13
46	End-to-End Domain Adaptive Attention Network for Cross-Domain Person Re-Identification. <i>IEEE Transactions on Information Forensics and Security</i> , 2021, 16, 3803-3813.	6.9	13
47	Joint identification&quot;verification for person re-identification: A four stream deep learning approach with improved quartet loss function. <i>Computer Vision and Image Understanding</i> , 2020, 197-198, 102989.	4.7	12
48	Rethinking Planar Homography Estimation Using Perspective Fields. <i>Lecture Notes in Computer Science</i> , 2019, , 571-586.	1.3	12
49	Scene Invariant Crowd Counting. , 2011, , .		11
50	Memory Augmented Deep Generative models for Forecasting the Next Shot Location in Tennis. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020, , 1-1.	5.7	11
51	When you can't see the koalas for the trees: Using drones and machine learning in complex environments. <i>Biological Conservation</i> , 2020, 247, 108598.	4.1	11
52	Neighbourhood Context Embeddings in Deep Inverse Reinforcement Learning for Predicting Pedestrian Motion Over Long Time Horizons. , 2019, , .		10
53	Memory based fusion for multi-modal deep learning. <i>Information Fusion</i> , 2021, 67, 136-146.	19.1	10
54	Semantic Person Retrieval in Surveillance Using Soft Biometrics: AVSS 2018 Challenge II. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
55	A Deep Four-Stream Siamese Convolutional Neural Network with Joint Verification and Identification Loss for Person Re-Detection. , 2018, , .		9
56	Domain Generalization in Biosignal Classification. IEEE Transactions on Biomedical Engineering, 2021, 68, 1978-1989.	4.2	9
57	Real-time video event detection in crowded scenes using MPEG derived features: A multiple instance learning approach. Pattern Recognition Letters, 2014, 44, 113-125.	4.2	8
58	An Efficient and Robust System for Multiperson Event Detection in Real-World Indoor Surveillance Scenes. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1063-1076.	8.3	8
59	Vision-Based Mouth Motion Analysis in Epilepsy: A 3D Perspective. , 2019, 2019, 1625-1629.		8
60	Semantic Consistency and Identity Mapping Multi-Component Generative Adversarial Network for Person Re-Identification. , 2020, , .		6
61	Temporarily-Aware Context Modeling Using Generative Adversarial Networks for Speech Activity Detection. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 1159-1169.	5.8	6
62	Pedestrian Trajectory Prediction with Structured Memory Hierarchies. Lecture Notes in Computer Science, 2019, , 241-256.	1.3	4
63	Multimodal clothing recognition for semantic search in unconstrained surveillance imagery. Journal of Visual Communication and Image Representation, 2019, 58, 439-452.	2.8	4
64	Improved reinforcement learning with curriculum. Expert Systems With Applications, 2020, 158, 113515.	7.6	4
65	Hierarchical Attention Network for Action Segmentation. Pattern Recognition Letters, 2020, 131, 442-448.	4.2	4
66	In-Bed Human Pose Estimation from Unseen and Privacy-Preserving Image Domains. , 2022, , .		4
67	Detecting anomalous events at railway level crossings. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2013, 227, 539-553.	2.0	3
68	Learning Regional Attention Over Multi-Resolution Deep Convolutional Features For Trademark Retrieval. , 2021, , .		3
69	Split â€˜nâ€™ merge net: A dynamic masking network for multi-task attention. Pattern Recognition, 2022, 126, 108551.	8.1	3
70	Video-Based Inpatient Fall Risk Assessment: A Case Study. , 2021, 2021, 2601-2604.		3
71	Automated Detection of Koalas with Deep Learning Ensembles. Remote Sensing, 2022, 14, 2432.	4.0	3
72	Searching for semantic person queries using channel representations. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
73	Large scale monitoring of crowds and building utilisation: A new database and distributed approach. , 2015, , .		2
74	Skeleton Driven Non-Rigid Motion Tracking and 3D Reconstruction. , 2018, , .		2
75	Scene Invariant Virtual Gates Using DNNs. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2637-2651.	8.3	1
76	Motion Signatures for the Analysis of Seizure Evolution in Epilepsy. , 2019, 2019, 2099-2105.		1
77	Sparse Convolutions on Continuous Domains for Point Cloud and Event Stream Networks. Lecture Notes in Computer Science, 2021, , 400-416.	1.3	1
78	Multi-Slice Net: A Novel Light Weight Framework For COVID-19 Diagnosis. , 2021, , .		1