

Simon Denman

List of Publications by Year in descending order

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78
papers

2,210
citations

304743

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79
docs citations

79
times ranked

1684
citing authors

#	ARTICLE	IF	CITATIONS
1	Channel Graph Regularized Correlation Filters for Visual Object Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 715-729.	8.3	13
2	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
3	Deep Learning for Medical Anomaly Detection – A Survey. ACM Computing Surveys, 2022, 54, 1-37.	23.0	96
4	Robust and Interpretable Temporal Convolution Network for Event Detection in Lung Sound Recordings. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2898-2908.	6.3	16
5	Split –merge net: A dynamic masking network for multi-task attention. Pattern Recognition, 2022, 126, 108551.	8.1	3
6	In-Bed Human Pose Estimation from Unseen and Privacy-Preserving Image Domains. , 2022, , .		4
7	Affect recognition from scalp-EEG using channel-wise encoder networks coupled with geometric deep learning and multi-channel feature fusion. Knowledge-Based Systems, 2022, 250, 109038.	7.1	15
8	Automated Detection of Koalas with Deep Learning Ensembles. Remote Sensing, 2022, 14, 2432.	4.0	3
9	Identification of Children at Risk of Schizophrenia via Deep Learning and EEG Responses. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 69-76.	6.3	44
10	A Robust Interpretable Deep Learning Classifier for Heart Anomaly Detection Without Segmentation. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2162-2171.	6.3	48
11	Memory based fusion for multi-modal deep learning. Information Fusion, 2021, 67, 136-146.	19.1	10
12	TMMF: Temporal Multi-Modal Fusion for Single-Stage Continuous Gesture Recognition. IEEE Transactions on Image Processing, 2021, 30, 7689-7701.	9.8	23
13	Deep Learning for Patient-Independent Epileptic Seizure Prediction Using Scalp EEG Signals. IEEE Sensors Journal, 2021, 21, 9377-9388.	4.7	68
14	Domain Generalization in Biosignal Classification. IEEE Transactions on Biomedical Engineering, 2021, 68, 1978-1989.	4.2	9
15	Graph-Based Deep Learning for Medical Diagnosis and Analysis: Past, Present and Future. Sensors, 2021, 21, 4758.	3.8	90
16	Learning Regional Attention Over Multi-Resolution Deep Convolutional Features For Trademark Retrieval. , 2021, , .		3
17	Interpretable Seizure Classification Using Unprocessed EEG With Multi-Channel Attentive Feature Fusion. IEEE Sensors Journal, 2021, 21, 19186-19197.	4.7	14
18	Deep Inverse Reinforcement Learning for Behavior Prediction in Autonomous Driving: Accurate Forecasts of Vehicle Motion. IEEE Signal Processing Magazine, 2021, 38, 87-96.	5.6	41

#	ARTICLE	IF	CITATIONS
19	Sparse Convolutions on Continuous Domains for Point Cloud and Event Stream Networks. Lecture Notes in Computer Science, 2021, , 400-416.	1.3	1
20	Detection of Fake and Fraudulent Faces via Neural Memory Networks. IEEE Transactions on Information Forensics and Security, 2021, 16, 1973-1988.	6.9	14
21	End-to-End Domain Adaptive Attention Network for Cross-Domain Person Re-Identification. IEEE Transactions on Information Forensics and Security, 2021, 16, 3803-3813.	6.9	13
22	Multi-Slice Net: A Novel Light Weight Framework For COVID-19 Diagnosis. , 2021, , .		1
23	Video-Based Inpatient Fall Risk Assessment: A Case Study. , 2021, 2021, 2601-2604.		3
24	Fine-grained action segmentation using the semi-supervised action GAN. Pattern Recognition, 2020, 98, 107039.	8.1	30
25	Memory Augmented Deep Generative models for Forecasting the Next Shot Location in Tennis. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	5.7	11
26	Heart Sound Segmentation Using Bidirectional LSTMs With Attention. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1601-1609.	6.3	45
27	Neural Memory Networks for Seizure Type Classification. , 2020, 2020, 569-575.		28
28	Semantic Consistency and Identity Mapping Multi-Component Generative Adversarial Network for Person Re-Identification. , 2020, , .		6
29	Joint identification"verification for person re-identification: A four stream deep learning approach with improved quartet loss function. Computer Vision and Image Understanding, 2020, 197-198, 102989.	4.7	12
30	Improved reinforcement learning with curriculum. Expert Systems With Applications, 2020, 158, 113515.	7.6	4
31	Hierarchical Attention Network for Action Segmentation. Pattern Recognition Letters, 2020, 131, 442-448.	4.2	4
32	Neural memory plasticity for medical anomaly detection. Neural Networks, 2020, 127, 67-81.	5.9	23
33	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
34	When you can't see the koalas for the trees: Using drones and machine learning in complex environments. Biological Conservation, 2020, 247, 108598.	4.1	11
35	Fruit Detection in the Wild: The Impact of Varying Conditions and Cultivar. , 2020, , .		16
36	Scene Invariant Virtual Gates Using DNNs. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2637-2651.	8.3	1

#	ARTICLE	IF	CITATIONS
37	Coupled Generative Adversarial Network for Continuous Fine-Grained Action Segmentation. , 2019, , .		14
38	Pedestrian Trajectory Prediction with Structured Memory Hierarchies. Lecture Notes in Computer Science, 2019, , 241-256.	1.3	4
39	Understanding Patientsâ€™ Behavior: Vision-Based Analysis of Seizure Disorders. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2583-2591.	6.3	23
40	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
41	Automated detection of koalas using low-level aerial surveillance and machine learning. Scientific Reports, 2019, 9, 3208.	3.3	58
42	Motion Signatures for the Analysis of Seizure Evolution in Epilepsy. , 2019, 2019, 2099-2105.		1
43	Neighbourhood Context Embeddings in Deep Inverse Reinforcement Learning for Predicting Pedestrian Motion Over Long Time Horizons. , 2019, , .		10
44	Predicting the Future: A Jointly Learnt Model for Action Anticipation. , 2019, , .		49
45	Vision-Based Mouth Motion Analysis in Epilepsy: A 3D Perspective. , 2019, 2019, 1625-1629.		8
46	Aberrant epileptic seizure identification: A computer vision perspective. Seizure: the Journal of the British Epilepsy Association, 2019, 65, 65-71.	2.0	16
47	Multimodal clothing recognition for semantic search in unconstrained surveillance imagery. Journal of Visual Communication and Image Representation, 2019, 58, 439-452.	2.8	4
48	GD-GAN: Generative Adversarial Networks for Trajectory Prediction and Group Detection in Crowds. Lecture Notes in Computer Science, 2019, , 314-330.	1.3	29
49	Rethinking Planar Homography Estimation Using Perspective Fields. Lecture Notes in Computer Science, 2019, , 571-586.	1.3	12
50	Deep facial analysis: A new phase I epilepsy evaluation using computer vision. Epilepsy and Behavior, 2018, 82, 17-24.	1.7	41
51	Skeleton Driven Non-Rigid Motion Tracking and 3D Reconstruction. , 2018, , .		2
52	Semantic Person Retrieval in Surveillance Using Soft Biometrics: AVSS 2018 Challenge II. , 2018, , .		9
53	Deep Motion Analysis for Epileptic Seizure Classification. , 2018, 2018, 3578-3581.		19
54	Soft + Hardwired attention: An LSTM framework for human trajectory prediction and abnormal event detection. Neural Networks, 2018, 108, 466-478.	5.9	237

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55	A hierarchical multimodal system for motion analysis in patients with epilepsy. <i>Epilepsy and Behavior</i> , 2018, 87, 46-58.	1.7	24
56	Tree Memory Networks for modelling long-term temporal dependencies. <i>Neurocomputing</i> , 2018, 304, 64-81.	5.9	31
57	A Deep Four-Stream Siamese Convolutional Neural Network with Joint Verification and Identification Loss for Person Re-Detection. , 2018, , .		9
58	Fruit Quantity and Ripeness Estimation Using a Robotic Vision System. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 2995-3002.	5.1	75
59	Task Specific Visual Saliency Prediction with Memory Augmented Conditional Generative Adversarial Networks. , 2018, , .		18
60	Going Deeper: Autonomous Steering with Neural Memory Networks. , 2017, , .		26
61	Detecting rare events using Kullback-Leibler divergence: A weakly supervised approach. <i>Expert Systems With Applications</i> , 2016, 54, 13-28.	7.6	19
62	Searching for semantic person queries using channel representations. , 2015, , .		2
63	Large scale monitoring of crowds and building utilisation: A new database and distributed approach. , 2015, , .		2
64	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
65	An Efficient and Robust System for Multiperson Event Detection in Real-World Indoor Surveillance Scenes. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2015, 25, 1063-1076.	8.3	8
66	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
67	Searching for people using semantic soft biometric descriptions. <i>Pattern Recognition Letters</i> , 2015, 68, 306-315.	4.2	29
68	An evaluation of crowd counting methods, features and regression models. <i>Computer Vision and Image Understanding</i> , 2015, 130, 1-17.	4.7	112
69	Locating People in Video from Semantic Descriptions: A New Database and Approach. , 2014, , .		22
70	Real-time video event detection in crowded scenes using MPEG derived features: A multiple instance learning approach. <i>Pattern Recognition Letters</i> , 2014, 44, 113-125.	4.2	8
71	Scene invariant multi camera crowd counting. <i>Pattern Recognition Letters</i> , 2014, 44, 98-112.	4.2	43
72	Feature-domain super-resolution for iris recognition. <i>Computer Vision and Image Understanding</i> , 2013, 117, 1526-1535.	4.7	28

#	ARTICLE	IF	CITATIONS
73	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
74	Scene Invariant Crowd Counting. , 2011, , .		11
75	Crowd Counting Using Group Tracking and Local Features. , 2010, , .		19
76	Improved Simultaneous Computation of Motion Detection and Optical Flow for Object Tracking. , 2009, , .		46
77	Crowd Counting Using Multiple Local Features. , 2009, , .		199
78	An adaptive optical flow technique for person tracking systems. Pattern Recognition Letters, 2007, 28, 1232-1239.	4.2	72