Stephan K Chalup

List of Publications by Year in descending order

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687363 794594 90 686 13 19 citations g-index h-index papers 97 97 97 634 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	A decentralised multi-agent system for rail freight traffic management. Annals of Operations Research, 2023, 320, 631-661.	4.1	4
2	A call to scale up biodiversity monitoring from idiosyncratic, small-scale programmes to coordinated, comprehensive and continuous monitoring across large scales. Australian Zoologist, 2022, , .	1.1	0
3	Multimodal Emotion Recognition Based on Speech and Physiological Signals Using Deep Neural Networks. Lecture Notes in Computer Science, 2021, , 289-300.	1.3	4
4	Affective analysis of visual scenes using face pareidolia and scene-context. Neurocomputing, 2021, 437, 72-83.	5.9	3
5	Evolutionary Hyperparameter Optimisation for Sentence Classification., 2021,,.		2
6	Cognitive Radio Spectrum Sensing and Prediction Using Deep Reinforcement Learning. , 2021, , .		4
7	Performance of evolutionary wavelet neural networks in acrobot control tasks. Neural Computing and Applications, 2020, 32, 8493-8505.	5.6	O
8	DQR: Deep Q-Routing in Software Defined Networks. , 2020, , .		9
9	Voxelâ€based supervised machine learning of peripheral zone prostate cancer using noncontrast multiparametric MRI. Journal of Applied Clinical Medical Physics, 2020, 21, 179-191.	1.9	10
10	Recognition of emotion from speech using evolutionary cepstral coefficients. Multimedia Tools and Applications, 2020, 79, 35739-35759.	3.9	6
11	Robust Multi-Objective optimization using Conditional Pareto Optimal Dominance. , 2020, , .		2
12	Optimisation of 2D U-Net Model Components for Automatic Prostate Segmentation on MRI. Applied Sciences (Switzerland), 2020, 10, 2601.	2. 5	10
13	A Novel U-Shaped Transfer Function forÂBinary Particle Swarm Optimisation. Advances in Intelligent Systems and Computing, 2020, , 241-259.	0.6	22
14	Fast Evolution of CNN Architecture for Image Classification. Natural Computing Series, 2020, , 209-229.	2.2	8
15	A Deep Reinforcement Learning Approach to Fair Distributed Dynamic Spectrum Access. , 2020, , .		O
16	Parallel LSTM Architectures for Non-Intrusive Load Monitoring in Smart Homes. , 2020, , .		3
17	Fast Automatic Optimisation of CNN Architectures for Image Classification Using Genetic Algorithm. , 2019, , .		19
18	From Face Recognition to Facial Pareidolia: Analysing Hidden Neuron Activations in CNNs for Cross-Depiction Recognition. , 2019, , .		2

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19	Estimating Betti Numbers Using Deep Learning. , 2019, , .		2
20	Semi-Supervised Manifold Alignment Using Parallel Deep Autoencoders. Algorithms, 2019, 12, 186.	2.1	2
21	Improving the reliability of implicit averaging methods using new conditional operators for robust optimization. Swarm and Evolutionary Computation, 2019, 51, 100579.	8.1	4
22	An automatic HyLoggerTM mineral mapping method using a machine-learning-based computer vision technique. Australian Journal of Earth Sciences, 2019, 66, 1063-1073.	1.0	1
23	The Impact of Image Resolution on Facial Expression Analysis with CNNs. , 2019, , .		1
24	Testing the Robustness of Manifold Learning on Examples of Thinned-Out Data., 2019,,.		1
25	Bulk Anatomical Density Based Dose Calculation for Patient-Specific Quality Assurance of MRI-Only Prostate Radiotherapy. Frontiers in Oncology, 2019, 9, 997.	2.8	16
26	Visual Mesh: Real-Time Object Detection Using Constant Sample Density. Lecture Notes in Computer Science, 2019, , 45-56.	1.3	5
27	A Smart Meter Firmware Update Strategy Through Network Coding for AMI Network. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 68-77.	0.3	1
28	RoboCup Junior in the Hunter Region: Driving the Future of Robotic STEM Education. Lecture Notes in Computer Science, 2019, , 362-373.	1.3	2
29	Comparing Ellipse Detection and Deep Neural Networks for the Identification of Drinking Glasses in Images. Lecture Notes in Computer Science, 2019, , 319-329.	1.3	4
30	[Regular Paper] Adjacent Network for Semantic Segmentation of Liver CT Scans., 2018,,.		1
31	Monocular ORB-SLAM on a Humanoid Robot for Localization Purposes. Lecture Notes in Computer Science, 2018, , 77-82.	1.3	1
32	Uncertainty Estimation in the Neural Model for Aeromagnetic Compensation. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1942-1946.	3.1	11
33	Sliding window bag-of-visual-words for low computational power robotics scene matching. , 2018, , .		1
34	Comparing Computing Platforms for Deep Learning on a Humanoid Robot. Lecture Notes in Computer Science, 2018, , 120-131.	1.3	7
35	Evolutionary Wavelet Neural Network ensembles for breast cancer and Parkinson's disease prediction. PLoS ONE, 2018, 13, e0192192.	2.5	29
36	Aligning Manifolds of Double Pendulum Dynamics Under the Influence of Noise. Lecture Notes in Computer Science, 2018, , 74-85.	1.3	0

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37	Evolving multi-dimensional wavelet neural networks for classification using Cartesian Genetic Programming. Neurocomputing, 2017, 247, 39-58.	5.9	25
38	A study on validating non-linear dimensionality reduction using persistent homology. Pattern Recognition Letters, 2017, 100, 160-166.	4.2	12
39	Group emotion recognition in the wild by combining deep neural networks for facial expression classification and scene-context analysis. , 2017, , .		19
40	Training Deep Neural Networks for Detecting Drinking Glasses Using Synthetic Images. Lecture Notes in Computer Science, 2017, , 354-363.	1.3	12
41	NUClear: A Loosely Coupled Software Architecture for Humanoid Robot Systems. Frontiers in Robotics and Al, $2016, 3, .$	3.2	14
42	RTCSS., 2016,,.		0
43	A study on detecting three-dimensional balls using boosted classifiers. , 2016, , .		1
44	Parkinson's Disease Data Classification Using Evolvable Wavelet Neural Networks. Lecture Notes in Computer Science, 2016, , 113-124.	1.3	6
45	A multi-agent cooperative reinforcement learning model using a hierarchy of consultants, tutors and workers. Vietnam Journal of Computer Science, 2015, 2, 213-226.	1.2	43
46	A Fast Method for Adapting Lookup Tables Applied to Changes in Lighting Colour. Lecture Notes in Computer Science, 2015, , 190-201.	1.3	5
47	Learning Nursery Rhymes Using Adaptive Parameter Neurodynamic Programming. Lecture Notes in Computer Science, 2015, , 196-209.	1.3	0
48	Affective Visual Perception Using Machine Pareidolia of Facial Expressions. IEEE Transactions on Affective Computing, 2014, 5, 352-363.	8.3	7
49	Software Development in the City Evolutions Project. , 2014, , .		1
50	Support vector clustering of time series data with alignment kernels. Pattern Recognition Letters, 2014, 45, 129-135.	4.2	10
51	Motivated Reinforcement Learning for Improved Head Actuation of Humanoid Robots. Lecture Notes in Computer Science, 2014, , 268-279.	1.3	2
52	Scene perception using pareidolia of faces and expressions of emotion. , 2013, , .		7
53	Robot emotions generated and modulated by visual features of the environment. , 2013, , .		0
54	GDTW-P-SVMs: Variable-length time series analysis using support vector machines. Neurocomputing, 2013, 99, 270-282.	5.9	15

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55	A component based approach for classifying the seven universal facial expressions of emotion. , 2013, , .		3
56	Wayfinding: a method for the empirical evaluation of structural saliency using 3D Isovists. Architectural Science Review, 2013, 56, 220-231.	2.2	15
57	Segmenting Salient Objects in 3D Point Clouds of Indoor Scenes Using Geodesic Distances. Journal of Signal and Information Processing, 2013, 04, 102-108.	0.4	4
58	Visual gaze analysis of robotic pedestrians moving in urban space. Architectural Science Review, 2012, 55, 213-223.	2.2	8
59	An experimental evaluation of pairwise adaptive support vector machines., 2012,,.		5
60	Analysis of pedestrian spatial behaviour using GDTW-P-SVMs. , 2012, , .		0
61	Application of Intelligent Systems for News Analytics. Springer Optimization and Its Applications, 2012, , 71-101.	0.9	1
62	Architectural evaluation of simulated pedestrian spatial behaviour. Architectural Science Review, 2011, 54, 132-140.	2.2	14
63	A component based approach improves classification of discrete facial expressions over a holistic approach., 2010,,.		5
64	Intelligent evaluation of urban streetscape designs by analysing pedestrian body dynamics. , 2010, , .		2
65	A Computational Approach to Fractal Analysis of a Cityscape's Skyline. Architectural Science Review, 2009, 52, 126-134.	2.2	10
66	A small spiking neural network with LQR control applied to the acrobot. Neural Computing and Applications, 2009, 18, 369-375.	5.6	22
67	A Liver Segmentation Algorithm Based on Wavelets and Machine Learning. , 2009, , .		14
68	A Computational Investigation into the Fractal Dimensions of the Architecture of Kazuyo Sejima. Design Principles and Practices, 2009, 3, 231-244.	0.7	4
69	Anthropocentric Biocybernetic Computing for Analysing the Architectural Design of House Façades and Cityscapes. Design Principles and Practices, 2009, 3, 65-80.	0.7	0
70	Kernel Methods in Finance. , 2008, , 655-687.		7
71	Quadratic Leaky Integrate-and-Fire Neural Network Tuned with an Evolution-Strategy for a Simulated 3D Biped Walking Controller. , 2008, , .		1
72	Regime Type and International Conflict: Towards a General Model. Journal of Peace Research, 2008, 45, 743-763.	2.9	12

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73	A face-house paradigm for architectural scene analysis. , 2008, , .		5
74	Towards visualisation of sound-scapes through dimensionality reduction. , 2008, , .		O
75	Representations of Streetscape Perceptions Through Manifold Learning in the Space of Hough Arrays. , 2007, , .		3
76	Variations of the two-spiral task. Connection Science, 2007, 19, 183-199.	3.0	13
77	Machine Learning With AIBO Robots in the Four-Legged League of RoboCup. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2007, 37, 297-310.	2.9	32
78	Modelling Architectural Visual Experience Using Non-linear Dimensionality Reduction., 2007,, 84-95.		1
79	Impact of tactical variations in the RoboCup four-legged league. , 2006, , .		0
80	The machine intelligence Hex project. Computer Science Education, 2005, 15, 245-273.	3.7	2
81	Towards Robot Soccer Team Behaviours Through Approximate Simulation. , 2005, , .		O
82	Machine Learning in the Four-Legged League. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 723-728.	0.4	3
83	Traction Monitoring for Collision Detection with Legged Robots. Lecture Notes in Computer Science, 2004, , 374-384.	1.3	6
84	Incremental training of first order recurrent neural networks to predict a context-sensitive language. Neural Networks, 2003, 16, 955-972.	5.9	19
85	INCREMENTAL LEARNING IN BIOLOGICAL AND MACHINE LEARNING SYSTEMS. International Journal of Neural Systems, 2002, 12, 447-465.	5.2	19
86	Software for Analysing Recurrent Neural Nets That Learn to Predict Non-regular Languages. Lecture Notes in Computer Science, 2002, , 296-298.	1.3	0
87	Hill climbing in recurrent neural networks for learning the a/sup n/b/sup n/c/sup n/ language. , 0, , .		2
88	A study on hill climbing algorithms for neural network training. , 0, , .		17
89	Support vector clustering through proximity graph modelling. , 0, , .		36
90	Towards staged evolution of an artificial player for hex by enlarging the boardsize during training. , 0, , .		0