

Nikola Kasabov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

348
papers

5,671
citations

37
h-index

64
g-index

377
ext. papers

6,816
ext. citations

3.3
avg, IF

6.53
L-index

#	Paper	IF	Citations
348	Multispectral Image Enhancement Based on Weighted Principal Component Analysis and Improved Fractional Differential Mask. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022 , 19, 1-5	4.1	
347	Multispectral Image Enhancement Based on the Dark Channel Prior and Bilateral Fractional Differential Model. <i>Remote Sensing</i> , 2022 , 14, 233	5	1
346	Universal Adversarial Perturbation Generated by Using Attention Information. <i>Studies in Systems, Decision and Control</i> , 2022 , 21-39	0.8	
345	A meta-inspired termite queen algorithm for global optimization and engineering design problems. <i>Engineering Applications of Artificial Intelligence</i> , 2022 , 111, 104805	7.2	0
344	Artificial intelligence: a systematic review of methods and applications in hospitality and tourism. <i>International Journal of Contemporary Hospitality Management</i> , 2022 , 34, 1154-1176	7.5	5
343	. <i>IEEE Access</i> , 2021 , 9, 154513-154523	3.5	0
342	Spiking Neural Networks for Computational Intelligence: An Overview. <i>Big Data and Cognitive Computing</i> , 2021 , 5, 67	3.5	3
341	Deep semi-supervised learning via dynamic anchor graph embedding in latent space.. <i>Neural Networks</i> , 2021 , 146, 350-360	9.1	1
340	NeuroSense: Short-term emotion recognition and understanding based on spiking neural network modelling of spatio-temporal EEG patterns. <i>Neurocomputing</i> , 2021 , 434, 137-148	5.4	19
339	Design of MRI structured spiking neural networks and learning algorithms for personalized modelling, analysis, and prediction of EEG signals. <i>Scientific Reports</i> , 2021 , 11, 12064	4.9	4
338	Deep Learning of Explainable EEG Patterns as Dynamic Spatiotemporal Clusters and Rules in a Brain-Inspired Spiking Neural Network. <i>Sensors</i> , 2021 , 21,	3.8	2
337	Prediction of tinnitus masking benefit within a case series using a spiking neural network model. <i>Progress in Brain Research</i> , 2021 , 260, 129-165	2.9	6
336	A heuristic approach for lactate threshold estimation for training decision-making: An accessible and easy to use solution for recreational runners. <i>European Journal of Operational Research</i> , 2021 , 291, 427-437	5.6	2
335	. <i>IEEE Access</i> , 2021 , 9, 12852-12860	3.5	0
334	Specular Reflection Image Enhancement Based on a Dark Channel Prior. <i>IEEE Photonics Journal</i> , 2021 , 13, 1-11	1.8	4
333	Multispectral Image Change Detection Based on Single-Band Slow Feature Analysis. <i>Remote Sensing</i> , 2021 , 13, 2969	5	2
332	Personalised predictive modelling with brain-inspired spiking neural networks of longitudinal MRI neuroimaging data and the case study of dementia. <i>Neural Networks</i> , 2021 , 144, 522-539	9.1	3

331	Brain-inspired spiking neural networks for decoding and understanding muscle activity and kinematics from electroencephalography signals during hand movements. <i>Scientific Reports</i> , 2021 , 11, 2486	4.9	8
330	Prediction of Acoustic Residual Inhibition of Tinnitus Using a Brain-Inspired Spiking Neural Network Model. <i>Brain Sciences</i> , 2021 , 11,	3.4	4
329	High-Brightness Image Enhancement Algorithm. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11497	2.6	0
328	Application of a Brain-Inspired Spiking Neural Network Architecture to Odor Data Classification. <i>Sensors</i> , 2020 , 20,	3.8	6
327	An efficient and high quality medical CT image enhancement algorithm. <i>International Journal of Imaging Systems and Technology</i> , 2020 , 30, 939-949	2.5	3
326	A method to improve the accuracy of SAR image change detection by using an image enhancement method. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020 , 163, 137-151	11.8	4
325	Blue Channel and Fusion for Sandstorm Image Enhancement. <i>IEEE Access</i> , 2020 , 8, 66931-66940	3.5	6
324	Vehicle-Related Scene Segmentation Using CapsNets 2020 ,		3
323	Application of an Improved Focal Loss in Vehicle Detection. <i>Lecture Notes in Computer Science</i> , 2020 , 114-123	0.9	0
322	eSNN for Spatio-Temporal fMRI Brain Pattern Recognition with a Graphical Object Recognition Case Study. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 470-478	0.4	
321	Remote sensing image enhancement based on the combination of adaptive nonlinear gain and the PLIP model in the NSST domain. <i>Multimedia Tools and Applications</i> , 2020 , 79, 13647-13665	2.5	4
320	Pulsewidth Modulation-Based Algorithm for Spike Phase Encoding and Decoding of Time-Dependent Analog Data. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 3920-3931	10.3	1
319	Multi-spectral image change detection based on single-band iterative weighting and fuzzy C-means clustering. <i>European Journal of Remote Sensing</i> , 2020 , 53, 1-13	2.9	6
318	New avenue for the geriatric depression scale: Rasch transformation enhances reliability of assessment. <i>Journal of Affective Disorders</i> , 2020 , 264, 7-14	6.6	2
317	A Dynamic DNA Color Image Encryption Method Based on SHA-512. <i>Entropy</i> , 2020 , 22,	2.8	21
316	What has social neuroscience learned from hyperscanning studies of spoken communication? A systematic review. <i>Neuroscience and Biobehavioral Reviews</i> , 2020 ,	9	5
315	FusionSense: Emotion Classification Using Feature Fusion of Multimodal Data and Deep Learning in a Brain-Inspired Spiking Neural Network. <i>Sensors</i> , 2020 , 20,	3.8	2
314	Low Illumination Video Image Enhancement. <i>IEEE Photonics Journal</i> , 2020 , 12, 1-13	1.8	2

313	. <i>IEEE Access</i> , 2020 , 8, 126700-126712	3.5	3
312	Spiking Neural Networks: Background, Recent Development and the NeuCube Architecture. <i>Neural Processing Letters</i> , 2020 , 52, 1675-1701	2.4	6
311	Sleep Stage Classification using NeuCube on SpiNNaker: a Preliminary Study 2020 ,		2
310	A Fast Image Segmentation Algorithm Based on Saliency Map and Neutrosophic Set Theory. <i>IEEE Photonics Journal</i> , 2020 , 12, 1-16	1.8	3
309	A Multi-Information Fusion Correlation Filters Tracker. <i>IEEE Access</i> , 2020 , 8, 162022-162040	3.5	2
308	Video Snow Removal Based on Self-Adaptation Snow Detection and Patch-Based Gaussian Mixture Model. <i>IEEE Access</i> , 2020 , 8, 160188-160201	3.5	2
307	Moving object detection in video sequence images based on an improved visual background extraction algorithm. <i>Multimedia Tools and Applications</i> , 2020 , 79, 29663-29684	2.5	6
306	Object Motion Deblurring in Single Image Under Static Background. <i>IEEE Access</i> , 2020 , 8, 218069-218080	3.5	0
305	A Fast Sand-Dust Image Enhancement Algorithm by Blue Channel Compensation and Guided Image Filtering. <i>IEEE Access</i> , 2020 , 8, 196690-196699	3.5	7
304	Interpretability of Spatiotemporal Dynamics of the Brain Processes Followed by Mindfulness Intervention in a Brain-Inspired Spiking Neural Network Architecture. <i>Sensors</i> , 2020 , 20,	3.8	10
303	Modelling gene interaction networks from time-series gene expression data using evolving spiking neural networks. <i>Evolving Systems</i> , 2020 , 11, 599-613	2.1	2
302	Selection and Optimization of Temporal Spike Encoding Methods for Spiking Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 358-370	10.3	24
301	Spiking Neural Networks and online learning: An overview and perspectives. <i>Neural Networks</i> , 2020 , 121, 88-100	9.1	59
300	Deep learning and deep knowledge representation in Spiking Neural Networks for Brain-Computer Interfaces. <i>Neural Networks</i> , 2020 , 121, 169-185	9.1	23
299	. <i>IEEE Access</i> , 2019 , 7, 152612-152623	3.5	7
298	Quasi-Noise-Free and Detail-Preserved Digital Holographic Reconstruction. <i>IEEE Access</i> , 2019 , 7, 52155-52167	3.5	1
297	Change Detection of Optical Remote Sensing Image Disturbed by Thin Cloud Using Wavelet Coefficient Substitution Algorithm. <i>Sensors</i> , 2019 , 19,	3.8	3
296	. <i>IEEE Access</i> , 2019 , 7, 27948-27956	3.5	7

295	Air pollution prediction with clustering-based ensemble of evolving spiking neural networks and a case study for London area. <i>Environmental Modelling and Software</i> , 2019 , 118, 262-280	5.2	23
294	Spiking Neural Network Modelling Approach Reveals How Mindfulness Training Rewires the Brain. <i>Scientific Reports</i> , 2019 , 9, 6367	4.9	21
293	Contrast enhancement of medical images using fuzzy set theory and nonsubsampling shearlet transform. <i>International Journal of Imaging Systems and Technology</i> , 2019 , 29, 483-490	2.5	2
292	. <i>IEEE Access</i> , 2019 , 7, 43970-43978	3.5	22
291	Change Detection in SAR Images Based on the ROF Model Semi-Implicit Denoising Method. <i>Sensors</i> , 2019 , 19,	3.8	6
290	Adaptive long-term traffic state estimation with evolving spiking neural networks. <i>Transportation Research Part C: Emerging Technologies</i> , 2019 , 101, 126-144	8.4	35
289	A Computational Model of Neuroreceptor-Dependent Plasticity (NRDP) Based on Spiking Neural Networks. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2019 , 11, 63-72	3	4
288	Personalised modelling with spiking neural networks integrating temporal and static information. <i>Neural Networks</i> , 2019 , 119, 162-177	9.1	6
287	Applying Speckle Noise Suppression to Refractive Indices Change Detection in Porous Silicon Microarrays. <i>Sensors</i> , 2019 , 19,	3.8	4
286	Speckle Noise Removal in Image-based Detection of Refractive Index Changes in Porous Silicon Microarrays. <i>Scientific Reports</i> , 2019 , 9, 15001	4.9	2
285	Accurate breast lesion segmentation by exploiting spatio-temporal information with deep recurrent and convolutional network. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019 , 1	3.7	2
284	A Practical Medical Image Enhancement Algorithm Based on Nonsubsampling Contourlet Transform. <i>Journal of Medical Imaging and Health Informatics</i> , 2019 , 9, 1046-1056	1.2	4
283	A Novel Medical Image Fusion Approach Based on Nonsubsampling Shearlet Transform. <i>Journal of Medical Imaging and Health Informatics</i> , 2019 , 9, 1815-1826	1.2	4
282	From Brain-Inspired AI to a Symbiosis of Human Intelligence and Artificial Intelligence. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 701-714	0.5	
281	A Computational Framework for Personalised Modelling. Applications in Bioinformatics. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 563-591	0.5	
280	From Claude Shannon's Information Entropy to Spike-Time Data Compression Theory. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 679-699	0.5	
279	Deep Learning and Modelling of Audio-, Visual-, and Multimodal Audio-Visual Data in Brain-Inspired SNN. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 457-477	0.5	
278	Methods of Spiking Neural Networks. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 127-167	0.5	0

277	From von Neumann Machines to Neuromorphic Platforms. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 661-677	0.5	0
276	Integrating Time-Space and Orientation. A Case Study on fMRI + DTI Brain Data. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 397-427	0.5	1
275	Deep Learning of EEG Data in the NeuCube Brain-Inspired Spiking Neural Network Architecture for a Better Understanding of Depression. <i>Lecture Notes in Computer Science</i> , 2019 , 195-206	0.9	3
274	Time-Space, Spiking Neural Networks and Brain-Inspired Artificial Intelligence. <i>Springer Series on Bio- and Neurosystems</i> , 2019 ,	0.5	37
273	Evolving Processes in Time-Space. Deep Learning and Deep Knowledge Representation in Time-Space. Brain-Inspired AI. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 3-37	0.5	1
272	Personalised Modelling for Integrated Static and Dynamic Data. Applications in Neuroinformatics. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 593-615	0.5	1
271	eSPANNet: Evolving Spike Pattern Association Neural Network for Spike-based Supervised Incremental Learning and Its Application for Single-trial Brain Computer Interfaces 2019 ,		1
270	Evolving Spiking Neural Networks. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 169-199	0.5	4
269	Computational Neuro-genetic Modelling. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 545-561	0.5	
268	Deep Learning and Deep Knowledge Representation of fMRI Data. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 361-395	0.5	
267	Classification and regression of spatio-temporal signals using NeuCube and its realization on SpiNNaker neuromorphic hardware. <i>Journal of Neural Engineering</i> , 2019 , 16, 026014	5	13
266	Evolving and Spiking Connectionist Systems for Brain-Inspired Artificial Intelligence 2019 , 111-138		2
265	Artificial Neural Networks. Evolving Connectionist Systems. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 39-83	0.5	2
264	Deep Learning of Multisensory Streaming Data for Predictive Modelling with Applications in Finance, Ecology, Transport and Environment. <i>Springer Series on Bio- and Neurosystems</i> , 2019 , 619-658	0.5	1
263	Speckle Reduction of Reconstructions of Digital Holograms Using Gamma-Correction and Filtering. <i>IEEE Access</i> , 2018 , 6, 5227-5235	3.5	11
262	Integrating Space, Time, and Orientation in Spiking Neural Networks: A Case Study on Multimodal Brain Data Modeling. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 5249-5263	10.3	17
261	Anytime multipurpose emotion recognition from EEG data using a Liquid State Machine based framework. <i>Artificial Intelligence in Medicine</i> , 2018 , 86, 1-8	7.4	22
260	Unsupervised Change Detection of SAR Images Based on an Improved NSST Algorithm 2018 , 46, 801-808		4

259	Evolving, dynamic clustering of spatio/spectro-temporal data in 3D spiking neural network models and a case study on EEG data. <i>Evolving Systems</i> , 2018 , 9, 195-211	2.1	11
258	An evolving spatio-temporal approach for gender and age group classification with Spiking Neural Networks. <i>Evolving Systems</i> , 2018 , 9, 145-156	2.1	4
257	Attentional Bias Pattern Recognition in Spiking Neural Networks from Spatio-Temporal EEG Data. <i>Cognitive Computation</i> , 2018 , 10, 35-48	4.4	21
256	Evolving Spiking Neural Networks for online learning over drifting data streams. <i>Neural Networks</i> , 2018 , 108, 1-19	9.1	37
255	A Retinotopic Spiking Neural Network System for Accurate Recognition of Moving Objects Using NeuCube and Dynamic Vision Sensors. <i>Frontiers in Computational Neuroscience</i> , 2018 , 12, 42	3.5	15
254	Modelling Peri-Perceptual Brain Processes in a Deep Learning Spiking Neural Network Architecture. <i>Scientific Reports</i> , 2018 , 8, 8912	4.9	23
253	Modelling and Analysis of Temporal Gene Expression Data Using Spiking Neural Networks. <i>Lecture Notes in Computer Science</i> , 2018 , 571-581	0.9	2
252	Analysis, Classification and Marker Discovery of Gene Expression Data with Evolving Spiking Neural Networks. <i>Lecture Notes in Computer Science</i> , 2018 , 517-527	0.9	3
251	A Spatio-Temporal Fully Convolutional Network for Breast Lesion Segmentation in DCE-MRI. <i>Lecture Notes in Computer Science</i> , 2018 , 358-368	0.9	4
250	SAR image change detection based on equal weight image fusion and adaptive threshold in the NSST domain. <i>European Journal of Remote Sensing</i> , 2018 , 51, 785-794	2.9	6
249	Discrete Sparse Hashing for Cross-Modal Similarity Search. <i>Lecture Notes in Computer Science</i> , 2018 , 256-267	2.9	2
248	Spiking Neural Networks for Cancer Gene Expression Time Series Modelling and Analysis. <i>Lecture Notes in Computer Science</i> , 2018 , 625-634	0.9	1
247	Robust Visual Tracking via Dirac-Weighted Cascading Correlation Filters. <i>IEEE Signal Processing Letters</i> , 2018 , 25, 1700-1704	3.2	2
246	Analysis of Gene Expression Time Series Data of Ebola Vaccine response using the NeuCube and Temporal Feature Selection 2018 ,		1
245	Road Traffic Forecasting Using NeuCube and Dynamic Evolving Spiking Neural Networks. <i>Studies in Computational Intelligence</i> , 2018 , 192-203	0.8	2
244	FaNeuRobot: A Framework for Robot and Prosthetics Control Using the NeuCube Spiking Neural Network Architecture and Finite Automata Theory 2018 ,		2
243	Drift Detection over Non-stationary Data Streams Using Evolving Spiking Neural Networks. <i>Studies in Computational Intelligence</i> , 2018 , 82-94	0.8	6
242	Densely Connected Discriminative Correlation Filters for Visual Tracking. <i>IEEE Signal Processing Letters</i> , 2018 , 25, 1019-1023	3.2	3

241	A remote sensing image enhancement method using mean filter and unsharp masking in non-subsampled contourlet transform domain. <i>Transactions of the Institute of Measurement and Control</i> , 2017 , 39, 183-193	1.8	14
240	Mapping Temporal Variables Into the NeuCube for Improved Pattern Recognition, Predictive Modeling, and Understanding of Stream Data. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 1305-1317	10.3	40
239	A spiking neural network model for obstacle avoidance in simulated prosthetic vision. <i>Information Sciences</i> , 2017 , 399, 30-42	7.7	12
238	Spike-time encoding as a data compression technique for pattern recognition of temporal data. <i>Information Sciences</i> , 2017 , 406-407, 133-145	7.7	22
237	Change detection in SAR images based on the logarithmic transformation and total variation denoising method. <i>Remote Sensing Letters</i> , 2017 , 8, 214-223	2.3	10
236	. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2017 , 9, 293-303	3	24
235	Image Processing of Porous Silicon Microarray in Refractive Index Change Detection. <i>Sensors</i> , 2017 , 17,	3.8	6
234	A Practical GrabCut Color Image Segmentation Based on Bayes Classification and Simple Linear Iterative Clustering. <i>IEEE Access</i> , 2017 , 5, 18480-18487	3.5	13
233	Mapping, Learning, Visualization, Classification, and Understanding of fMRI Data in the NeuCube Evolving Spatiotemporal Data Machine of Spiking Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 887-899	10.3	38
232	Method of Improved Fuzzy Contrast Combined Adaptive Threshold in NSCT for Medical Image Enhancement. <i>BioMed Research International</i> , 2017 , 2017, 3969152	3	11
231	Remote Sensing Image Change Detection Based on NSCT-HMT Model and Its Application. <i>Sensors</i> , 2017 , 17,	3.8	11
230	Robust Kernel Approximation for Classification. <i>Lecture Notes in Computer Science</i> , 2017 , 289-296	0.9	1
229	Correlation Filters with Adaptive Memories and Fusion for Visual Tracking. <i>Lecture Notes in Computer Science</i> , 2017 , 170-179	0.9	
228	EEG Comparison Between Normal and Developmental Disorder in Perception and Imitation of Facial Expressions with the NeuCube. <i>Lecture Notes in Computer Science</i> , 2017 , 596-601	0.9	0
227	2016 ,		2
226	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 6563-6573	8.1	45
225	Remote sensing image enhancement based on the combination of nonsubsampling shearlet transform and guided filtering. <i>Optical Engineering</i> , 2016 , 55, 103104	1.1	15
224	Personalised modelling on integrated clinical and EEG Spatio-Temporal Brain Data in the NeuCube Spiking Neural Network system 2016 ,		5

223	Longitudinal study of alzheimer's disease degeneration through EEG data analysis with a NeuCube spiking neural network model 2016 ,		9
222	Which method to use for optimal structure and function representation of large spiking neural networks: A case study on the NeuCube architecture 2016 ,		1
221	Cyber fraud detection using evolving spiking neural network 2016 ,		3
220	An improved collaborative representation based classification with regularized least square (CRCBLS) method for robust face recognition. <i>Neurocomputing</i> , 2016 , 215, 250-259	5.4	7
219	Network-Based Method for Inferring Cancer Progression at the Pathway Level from Cross-Sectional Mutation Data. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2016 , 13, 1036-1044 ³		6
218	SAR Image Change Detection Method Based on Pulse-Coupled Neural Network 2016 , 44, 443-450		3
217	Adaptive cow movement detection using evolving spiking neural network models. <i>Evolving Systems</i> , 2016 , 7, 277-285	2.1	3
216	Evolving spatio-temporal data machines based on the NeuCube neuromorphic framework: Design methodology and selected applications. <i>Neural Networks</i> , 2016 , 78, 1-14	9.1	86
215	A Spiking Neural Network Methodology and System for Learning and Comparative Analysis of EEG Data From Healthy Versus Addiction Treated Versus Addiction Not Treated Subjects. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 1830-1841	5	37
214	Analysis of Similarity and Differences in Brain Activities Between Perception and Production of Facial Expressions Using EEG Data and the NeuCube Spiking Neural Network Architecture. <i>Lecture Notes in Computer Science</i> , 2016 , 221-227	0.9	6
213	Efficient Recognition of Attentional Bias Using EEG Data and the NeuCube Evolving Spatio-Temporal Data Machine. <i>Lecture Notes in Computer Science</i> , 2016 , 645-653	0.9	1
212	A graph-based semi-supervised k nearest-neighbor method for nonlinear manifold distributed data classification. <i>Information Sciences</i> , 2016 , 367-368, 673-688	7.7	25
211	Noisy Remote Sensing Image Segmentation with Wavelet Shrinkage and Graph Cuts 2016 , 44, 995-1002		2
210	A Spiking Neural Network for Personalised Modelling of Electrogastrography (EGG). <i>Lecture Notes in Computer Science</i> , 2016 , 18-25	0.9	0
209	Medical image enhancement algorithm based on NSCT and the improved fuzzy contrast. <i>International Journal of Imaging Systems and Technology</i> , 2015 , 25, 7-14	2.5	13
208	Implementation of active training for an upper-limb rehabilitation robot based on impedance control 2015 ,		8
207	A novel multi-focus image fusion method using PCNN in nonsubsampling contourlet transform domain. <i>Optik</i> , 2015 , 126, 2508-2511	2.5	29
206	Evolving Connectionist Systems: From Neuro-Fuzzy-, to Spiking- and Neuro-Genetic 2015 , 771-782		5

205	Evolving connectionist systems for adaptive learning and knowledge discovery: Trends and directions. <i>Knowledge-Based Systems</i> , 2015 , 80, 24-33	7.3	19
204	Analysis of connectivity in NeuCube spiking neural network models trained on EEG data for the understanding of functional changes in the brain: A case study on opiate dependence treatment. <i>Neural Networks</i> , 2015 , 68, 62-77	9.1	24
203	Feasibility of NeuCube spiking neural network architecture for EMG pattern recognition 2015 ,		7
202	Evolving personalized modeling system for integrated feature, neighborhood and parameter optimization utilizing gravitational search algorithm. <i>Evolving Systems</i> , 2015 , 6, 1-14	2.1	7
201	Spiking neural network methodology for modelling, classification and understanding of EEG spatio-temporal data measuring cognitive processes. <i>Information Sciences</i> , 2015 , 294, 565-575	7.7	68
200	Inference of cancer progression from somatic mutation data. <i>IFAC-PapersOnLine</i> , 2015 , 48, 234-238	0.7	
199	Identifying overlapping mutated driver pathways by constructing gene networks in cancer. <i>BMC Bioinformatics</i> , 2015 , 16 Suppl 5, S3	3.6	15
198	A medical image enhancement method using adaptive thresholding in NSCT domain combined unsharp masking. <i>International Journal of Imaging Systems and Technology</i> , 2015 , 25, 199-205	2.5	17
197	A method used for Dotted Data Matrix image processing. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2015 , 15, 685-693	0.3	3
196	New strategy to reduce the global burden of stroke. <i>Stroke</i> , 2015 , 46, 1740-7	6.7	57
195	Posterior Distribution Learning (PDL): A novel supervised learning framework using unlabeled samples to improve classification performance. <i>Neurocomputing</i> , 2015 , 157, 173-186	5.4	7
194	A holistic comparative analysis of diagnostic tests for urothelial carcinoma: a study of Cxbladder Detect, UroVysion [®] FISH, NMP22 [®] and cytology based on imputation of multiple datasets. <i>BMC Medical Research Methodology</i> , 2015 , 15, 45	4.7	19
193	sEMG-based torque estimation for robot-assisted lower limb rehabilitation 2015 ,		8
192	Modelling Absence Epilepsy seizure data in the NeuCube evolving spiking neural network architecture 2015 ,		2
191	A Feasibility Study of Using the NeuCube Spiking Neural Network Architecture for Modelling Alzheimer's Disease EEG Data. <i>Smart Innovation, Systems and Technologies</i> , 2015 , 159-172	0.5	4
190	Dynamic 3D Clustering of Spatio-Temporal Brain Data in the NeuCube Spiking Neural Network Architecture on a Case Study of fMRI Data. <i>Lecture Notes in Computer Science</i> , 2015 , 191-198	0.9	6
189	Abnormal Activity Detection Using Spatio-Temporal Feature and Laplacian Sparse Representation. <i>Lecture Notes in Computer Science</i> , 2015 , 410-418	0.9	8
188	Framework for Knowledge Driven Optimisation Based Data Encoding for Brain Data Modelling Using Spiking Neural Network Architecture. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 109-118	0.4	10

187	Poisson Image Denoising Based on BLS-GSM Method. <i>Lecture Notes in Computer Science</i> , 2015 , 513-522	0.9	
186	Adaptive Location for Multiple Salient Objects Detection. <i>Lecture Notes in Computer Science</i> , 2015 , 411-418		1
185	Evolving spiking neural networks for personalised modelling, classification and prediction of spatio-temporal patterns with a case study on stroke. <i>Neurocomputing</i> , 2014 , 134, 269-279	5.4	93
184	NeuCube: a spiking neural network architecture for mapping, learning and understanding of spatio-temporal brain data. <i>Neural Networks</i> , 2014 , 52, 62-76	9.1	226
183	Improved predictive personalized modelling with the use of Spiking Neural Network system and a case study on stroke occurrences data 2014 ,		5
182	Geomagnetic storms can trigger stroke: evidence from 6 large population-based studies in Europe and Australasia. <i>Stroke</i> , 2014 , 45, 1639-45	6.7	19
181	NeuCube(ST) for spatio-temporal data predictive modelling with a case study on ecological data 2014 ,		22
180	A novel graph-based k-means for nonlinear manifold clustering and representative selection. <i>Neurocomputing</i> , 2014 , 143, 109-122	5.4	34
179	Extracting temporal knowledge from time series: A case study in ecological data 2014 ,		4
178	An enhanced multiphase ChanVese model for the remote sensing image segmentation. <i>Concurrency Computation Practice and Experience</i> , 2014 , 26, 2893-2906	1.4	4
177	Medical Image Enhancement Based on Shearlet Transform and Unsharp Masking. <i>Journal of Medical Imaging and Health Informatics</i> , 2014 , 4, 814-818	1.2	6
176	EEG Signal Processing for Brain-Computer Interfaces 2014 , 797-812		6
175	2014 ,		12
174	Feasibility of NeuCube SNN architecture for detecting motor execution and motor intention for use in BCI applications 2014 ,		5
173	Personalized Information Modeling for Personalized Medicine 2014 , 533-553		
172	Computational Neurogenetic Modeling: Gene-Dependent Dynamics of Cortex and Idiopathic Epilepsy 2014 , 969-991		
171	Understanding Nature Through the Symbiosis of Information Science, Bioinformatics, and Neuroinformatics 2014 , 1-13		1
170	Computational Modeling with Spiking Neural Networks 2014 , 625-646		6

169	Brain, Gene, and Quantum Inspired Computational Intelligence 2014 , 1083-1098		
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