

CITATION REPORT

List of articles citing

A survey of deep neural network architectures and their applications

DOI: 10.1016/j.neucom.2016.12.038
Neurocomputing, 2017, 234, 11-26.

Source: <https://exaly.com/paper-pdf/66761967/citation-report.pdf>

Version: 2024-04-26

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
1882	Group sparse regularization for deep neural networks. <i>Neurocomputing</i> , 2017 , 241, 81-89	5.4	169
1881	A survey on data preprocessing for data stream mining: Current status and future directions. <i>Neurocomputing</i> , 2017 , 239, 39-57	5.4	199
1880	Low-level structure feature extraction for image processing via stacked sparse denoising autoencoder. <i>Neurocomputing</i> , 2017 , 243, 12-20	5.4	24
1879	A cost-sensitive semi-supervised learning model based on uncertainty. <i>Neurocomputing</i> , 2017 , 251, 106-114	5.4	16
1878	Comparison of 2D image models in segmentation performance for 3D laser point clouds. <i>Neurocomputing</i> , 2017 , 251, 136-144	5.4	7
1877	Finite-time state estimation for jumping recurrent neural networks with deficient transition probabilities and linear fractional uncertainties. <i>Neurocomputing</i> , 2017 , 260, 265-274	5.4	14
1876	Bagged AdaBoost stacked autoencoder for short-term traffic flow forecasting. <i>Neurocomputing</i> , 2017 , 247, 31-38	5.4	53
1875	Denosing and deblurring gold immunochromatographic strip images via gradient projection algorithms. <i>Neurocomputing</i> , 2017 , 247, 165-172	5.4	58
1874	Improving efficiency in sparse learning with the feedforward inhibitory motif. <i>Neurocomputing</i> , 2017 , 267, 141-151	5.4	1
1873	CNN-based edge filtering for object proposals. <i>Neurocomputing</i> , 2017 , 266, 631-640	5.4	11
1872	A new efficient training strategy for deep neural networks by hybridization of artificial bee colony and limited-memory BFGS optimization algorithms. <i>Neurocomputing</i> , 2017 , 266, 506-526	5.4	60
1871	Multi-train: A semi-supervised heterogeneous ensemble classifier. <i>Neurocomputing</i> , 2017 , 249, 202-211	5.4	21
1870	A niching evolutionary algorithm with adaptive negative correlation learning for neural network ensemble. <i>Neurocomputing</i> , 2017 , 247, 173-182	5.4	19
1869	Deep Convolutional Neural Networks with transfer learning for computer vision-based data-driven pavement distress detection. 2017 , 157, 322-330		380
1868	Infrared image enhancement with learned features. 2017 , 86, 44-51		8
1867	A novel recurrent hybrid network for feature fusion in action recognition. 2017 , 49, 192-203		13
1866	Intraday prediction of Borsa Istanbul using convolutional neural networks and feature correlations. 2017 , 137, 138-148		71

1865	The Application of One-Class Classifier Based on CNN in Image Defect Detection. 2017 , 114, 341-348		30
1864	Node-level parallelization for deep neural networks with conditional independent graph. <i>Neurocomputing</i> , 2017 , 267, 261-270	5.4	3
1863	Sensitivity based robust learning for stacked autoencoder against evasion attack. <i>Neurocomputing</i> , 2017 , 267, 572-580	5.4	15
1862	Extreme learning machine based transfer learning algorithms: A survey. <i>Neurocomputing</i> , 2017 , 267, 516-524	5.4	48
1861	An efficient method for online detection of polychronous patterns in spiking neural networks. <i>Neurocomputing</i> , 2017 , 267, 644-650	5.4	5
1860	Long-term performance of collaborative filtering based recommenders in temporally evolving systems. <i>Neurocomputing</i> , 2017 , 267, 635-643	5.4	18
1859	Activation-Kernel Extraction through Machine Learning. 2017 ,		0
1858	Survey of progress in deep neural networks for resource-constrained applications. 2017 ,		3
1857	A clustering approach to triage categorization in A&E departments. 2017 ,		
1856	A cognitive approach for attribute selection in internet dataset. 2017 ,		
1855	A Brief Review of Neural Networks Based Learning and Control and Their Applications for Robots. 2017 , 2017, 1-14		26
1854	A new approach of stochastic computing for arithmetic functions in wideband RF transceivers. 2017 ,		1
1853	Deep learning in digital marketing: brand detection and emotion recognition. 2017 , 2, 32		2
1852	A Modified Teaching and Learning Based Optimization Algorithm and Application in Deep Neural Networks Optimization for Electro-Discharge Machining. 2018 , 605-615		
1851	Rough-fuzzy based scene categorization for text detection and recognition in video. 2018 , 80, 64-82		19
1850	Machinery health indicator construction based on convolutional neural networks considering trend burr. <i>Neurocomputing</i> , 2018 , 292, 142-150	5.4	115
1849	Beam-column joint shear prediction using hybridized deep learning neural network with genetic algorithm. 2018 , 143, 012025		12
1848	Deep convolutional image retrieval: A general framework. 2018 , 63, 30-43		8

1847	3D mesh segmentation via multi-branch 1D convolutional neural networks. 2018 , 96, 1-10		15
1846	A survey towards an integration of big data analytics to big insights for value-creation. 2018 , 54, 758-790		150
1845	Tips, guidelines and tools for managing multi-label datasets: The mldr.datasets R package and the Cometa data repository. <i>Neurocomputing</i> , 2018 , 289, 68-85	5-4	16
1844	A Novel 1-D Convolution Neural Network With SVM Architecture for Real-Time Detection Applications. 2018 , 18, 724-731		18
1843	Sign Language Fingerspelling Recognition Using Depth Information and Deep Belief Networks. 2018 , 32, 1850018		12
1842	Early fire detection using convolutional neural networks during surveillance for effective disaster management. <i>Neurocomputing</i> , 2018 , 288, 30-42	5-4	154
1841	Segmentation of glioma tumors in brain using deep convolutional neural network. <i>Neurocomputing</i> , 2018 , 282, 248-261	5-4	110
1840	State estimation for discrete-time switched neural networks with time-varying delay. <i>Neurocomputing</i> , 2018 , 282, 25-31	5-4	3
1839	Investigating the use of motion-based features from optical flow for gait recognition. <i>Neurocomputing</i> , 2018 , 283, 140-149	5-4	21
1838	Soft computing approaches for image segmentation: a survey. 2018 , 77, 28483-28537		53
1837	Improving Human Action Recognition with Two-Stream 3D Convolutional Neural Network. 2018 ,		12
1836	Content based image retrieval system by using HSV color histogram, discrete wavelet transform and edge histogram descriptor. 2018 ,		29
1835	Convolutional neural network-based multimodal image fusion via similarity learning in the shearlet domain. 2018 , 30, 2029-2045		47
1834	Dynamics of four-neuron recurrent inhibitory loop with state-dependent time delays. <i>Neurocomputing</i> , 2018 , 291, 109-127	5-4	
1833	Handling data irregularities in classification: Foundations, trends, and future challenges. 2018 , 81, 674-693		103
1832	Event-based distributed recursive filtering for state-saturated systems with redundant channels. 2018 , 39, 96-107		31
1831	Event-Based Variance-Constrained \mathcal{H}_∞ Filtering for Stochastic Parameter Systems Over Sensor Networks With Successive Missing Measurements. 2018 , 48, 1007-1017		86
1830	Sampled-data consensus of nonlinear multiagent systems subject to cyber attacks. 2018 , 28, 53-67		63

1829	A neural network constructed by deep learning technique and its application to intelligent fault diagnosis of machines. <i>Neurocomputing, 2018, 272, 619-628</i>	5-4	273
1828	Incomplete multi-view clustering via deep semantic mapping. <i>Neurocomputing, 2018, 275, 1053-1062</i>	5-4	48
1827	DroidDet: Effective and robust detection of android malware using static analysis along with rotation forest model. <i>Neurocomputing, 2018, 272, 638-646</i>	5-4	92
1826	Dim infrared image enhancement based on convolutional neural network. <i>Neurocomputing, 2018, 272, 396-404</i>	5-4	32
1825	Concise deep reinforcement learning obstacle avoidance for underactuated unmanned marine vessels. <i>Neurocomputing, 2018, 272, 63-73</i>	5-4	92
1824	Noise robust sound event classification with convolutional neural network. <i>Neurocomputing, 2018, 272, 505-512</i>	5-4	44
1823	FP-BNN: Binarized neural network on FPGA. <i>Neurocomputing, 2018, 275, 1072-1086</i>	5-4	138
1822	Fast exact fingerprint indexing based on Compact Binary Minutia Cylinder Codes. <i>Neurocomputing, 2018, 275, 1711-1724</i>	5-4	6
1821	Improving deep neural networks with multi-layer maxout networks and a novel initialization method. <i>Neurocomputing, 2018, 278, 34-40</i>	5-4	25
1820	The p53/Mdm2 regulation relationship under different radiation doses based on the continuous-discrete extended Kalman filter algorithm. <i>Neurocomputing, 2018, 273, 230-236</i>	5-4	4
1819	Learning more distinctive representation by enhanced PCA network. <i>Neurocomputing, 2018, 275, 924-934</i>	5-4	13
1818	Deep neural networks with Elastic Rectified Linear Units for object recognition. <i>Neurocomputing, 2018, 275, 1132-1139</i>	5-4	54
1817	Textual sentiment analysis via three different attention convolutional neural networks and cross-modality consistent regression. <i>Neurocomputing, 2018, 275, 1407-1415</i>	5-4	74
1816	D3: Recognizing dynamic scenes with deep dual descriptor based on key frames and key segments. <i>Neurocomputing, 2018, 273, 611-621</i>	5-4	19
1815	A review on neural networks with random weights. <i>Neurocomputing, 2018, 275, 278-287</i>	5-4	220
1814	A joint residual network with paired ReLUs activation for image super-resolution. <i>Neurocomputing, 2018, 273, 37-46</i>	5-4	20
1813	Further results on L ₂ state estimation of delayed neural networks. <i>Neurocomputing, 2018, 273, 509-515</i>	5-4	16
1812	Speech emotion recognition based on feature selection and extreme learning machine decision tree. <i>Neurocomputing, 2018, 273, 271-280</i>	5-4	110

1811	SRNN: Self-regularized neural network. <i>Neurocomputing</i> , 2018 , 273, 260-270	5-4	4
1810	A two-channel convolutional neural network for image super-resolution. <i>Neurocomputing</i> , 2018 , 275, 267-277	5-4	23
1809	Long-range terrain perception using convolutional neural networks. <i>Neurocomputing</i> , 2018 , 275, 781-787	5-4	40
1808	An Artificial Neural Network and Bayesian Network model for liquidity risk assessment in banking. <i>Neurocomputing</i> , 2018 , 275, 2525-2554	5-4	59
1807	Novel Leakage Detection by Ensemble CNN-SVM and Graph-Based Localization in Water Distribution Systems. 2018 , 65, 4279-4289		107
1806	Aurora image search with contextual CNN feature. <i>Neurocomputing</i> , 2018 , 281, 67-77	5-4	13
1805	Deep convolutional learning for Content Based Image Retrieval. <i>Neurocomputing</i> , 2018 , 275, 2467-2478	5-4	102
1804	Energy Efficient Parallel K-Means Clustering for an Intel [®] Hybrid Multi-Chip Package. 2018 ,		3
1803	GANs with Multiple Constraints for Image Translation. 2018 , 2018, 1-12		6
1802	Deep Convolutional Neural Networks Capabilities for Binary Classification of Polar Mesocyclones in Satellite Mosaics. 2018 , 9, 426		11
1801	A Multi-Target Speaker Detection and Identification System Based on Combination of PLDA and DNN. 2018 ,		0
1800	Predicting Intention Through Eye Gaze Patterns. 2018 ,		9
1799	An Encoding Technique for CNN-based Network Anomaly Detection. 2018 ,		15
1798	Improved CBIR System Using Multilayer CNN. 2018 ,		4
1797	Transfer Learning with Deep CNNs for Gender Recognition and Age Estimation. 2018 ,		18
1796	THREE-DIMENSIONAL CONVOLUTIONAL NEURAL NETWORK BASED TRAFFIC CLASSIFICATION FOR WIRELESS COMMUNICATIONS. 2018 ,		9
1795	Credit Card Fraud Detection using autoencoder based clustering. 2018 ,		14
1794	Compressed Remote Sensing by Using Deep Learning. 2018 ,		5

1793	Design of Neural Network Architecture using Systolic Array Implemented in Verilog Code. 2018,	0
1792	Cyber Intrusion Prediction and Taxonomy System Using Deep Learning And Distributed Big Data Processing. 2018,	9
1791	Deep Neural Network for Classification and Prediction of Oxygen Binding Proteins. 2018,	
1790	Recognition Effects of Deep Convolutional Neural Network on Smudged Handwritten Digits. 2018,	
1789	Embedded System Design for Visual Scene Classification. 2018,	3
1788	Computational Intelligence Strategies for Effective Collaborative Decisions.. 2018,	
1787	A Survey of Deep Learning Techniques in Speech Recognition. 2018,	7
1786	User-Device Authentication in Mobile Banking Using APHEN for Paratuck2 Tensor Decomposition. 2018,	2
1785	Deep Learning for Retrieval of Natural Flower Videos. 2018, 132, 1533-1542	5
1784	Improving Edge Detection in RGB Images by Adding NIR Channel. 2018,	
1783	A Human-Centered Neural Network Model with Discriminative Locality Preserving Canonical Correlation Analysis for Image Classification. 2018,	0
1782	Speech Command for Automatic Sluice Gate Based on MFCC and Deep Neural Networks. 2018,	0
1781	A Novel Two-Layered Reinforcement Learning for Task Offloading with Tradeoff between Physical Machine Utilization Rate and Delay. 2018, 10, 60	12
1780	Smartphone-Based Traveled Distance Estimation Using Individual Walking Patterns for Indoor Localization. 2018, 18,	28
1779	Deep learning-based anomalous object detection system powered by microcontroller for PTZ cameras. 2018,	1
1778	Geometric discriminative deep features for traffic image analysis. 2018, 57, 163-171	2
1777	Low Resolution Image Fish Classification Using Convolutional Neural Network. 2018,	5
1776	State-of-the-art in artificial neural network applications: A survey. 2018, 4, e00938	633

1775	Setting Up a Surface-Enhanced Raman Scattering Database for Artificial-Intelligence-Based Label-Free Discrimination of Tumor Suppressor Genes. 2018 , 90, 14216-14221	37
1774	An Efficient Hardware Implementation of Activation Functions Using Stochastic Computing for Deep Neural Networks. 2018 ,	9
1773	Preserving-Texture Generative Adversarial Networks for Fast Multi-Weighted MRI. 2018 , 6, 71048-71059	4
1772	Extractive Text Summarization Using Deep Auto-encoders. 2018 , 169-176	
1771	Generalization of Deep Learning for Cyber-Physical System Security: A Survey. 2018 ,	34
1770	Sugarcane Yield and Quality Forecasting Models. 2018 ,	
1769	Study of Precipitation Forecast Based on Deep Belief Networks. 2018 , 11, 132	9
1768	Modeling of Boiler-Turbine Unit with Two-Phase Feature Selection and Deep Belief Network. 2018 , 51, 865-873	4
1767	An Empirical Mode Decomposition-based detection and classification approach for marine mammal vocal signals. 2018 , 144, 3181	15
1766	An Improved Stacked Auto-Encoder for Network Traffic Flow Classification. 2018 , 32, 22-27	31
1765	Incipient Inter-turn Fault Diagnosis in Induction motors using CNN and LSTM based Methods. 2018 ,	5
1764	Identifying Real Estate Opportunities Using Machine Learning. 2018 , 8, 2321	31
1763	Stacked Denoising Autoencoder based Fault Diagnosis for Rotating Motor. 2018 ,	1
1762	AgroAVNET for crops and weeds classification: A step forward in automatic farming. 2018 , 154, 361-372	26
1761	Autoencoder based Features Extraction for Automatic Classification of Earthquakes and Explosions. 2018 ,	2
1760	Pipeline Leak Aperture Recognition Based on Wavelet Packet Analysis and a Deep Belief Network with ICR. 2018 , 2018, 1-8	6
1759	RETRACTED: A method of multi-criteria set recognition based on deep feature representation. 2018 , 55, 756-760	
1758	Big Data Processing Architecture for Radio Signals Empowered by Deep Learning: Concept, Experiment, Applications and Challenges. 2018 , 6, 55907-55922	30

1757	Regularized robust Broad Learning System for uncertain data modeling. <i>Neurocomputing</i> , 2018 , 322, 58-69	5-4	54
1756	Comparison Study on the Prediction of Multiple Molecular Properties by Various Neural Networks. 2018 , 122, 9128-9134		14
1755	. 2018 ,		3
1754	Unsupervised Pre-training on Improving the Performance of Neural Network in Regression. 2018 ,		2
1753	Use of a Deep Belief Network for Small High-Level Abstraction Data Sets Using Artificial Intelligence with Rule Extraction. 2018 , 30, 3309-3326		7
1752	Multi-scale digital soil mapping with deep learning. 2018 , 8, 15244		53
1751	Combining Classical and Deep Learning Methods for Twitter Sentiment Analysis. 2018 , 281-292		4
1750	A Multi-Sensor, Gibbs Sampled, Implementation of the Multi-Bernoulli Poisson Filter. 2018 ,		2
1749	Deep Learning in the Wild. 2018 , 17-38		10
1748	Unpaired cross domain image translation with augmented auxiliary domain information. <i>Neurocomputing</i> , 2018 , 316, 112-123	5-4	7
1747	An event-triggered protocol for distributed optimal coordination of double-integrator multi-agent systems. <i>Neurocomputing</i> , 2018 , 319, 34-41	5-4	15
1746	A new switching-delayed-PSO-based optimized SVM algorithm for diagnosis of Alzheimer's disease. <i>Neurocomputing</i> , 2018 , 320, 195-202	5-4	146
1745	Discrete-time high order neural network identifier trained with cubature Kalman filter. <i>Neurocomputing</i> , 2018 , 322, 13-21	5-4	18
1744	Automatic Metallic Surface Defect Detection and Recognition with Convolutional Neural Networks. 2018 , 8, 1575		151
1743	Robust long-term correlation tracking using convolutional features and detection proposals. <i>Neurocomputing</i> , 2018 , 317, 137-148	5-4	1
1742	Symmetry features for license plate classification. 2018 , 3, 176-183		1
1741	Open-circuit fault diagnosis of power rectifier using sparse autoencoder based deep neural network. <i>Neurocomputing</i> , 2018 , 311, 1-10	5-4	48
1740	A multi-task collaborative learning method based on auxiliary training and geometric constraints. 2018 ,		1

1739	Exploratory Study for Data Visualization in Internet of Things. 2018,	4
1738	A hybrid deep learning model for consumer credit scoring. 2018,	19
1737	Road Traffic Conditions Classification Based on Multilevel Filtering of Image Content Using Convolutional Neural Networks. 2018, 10, 11-21	19
1736	Performance Analysis of Deep Neural Networks for Classification of Gene-Expression Microarrays. 2018, 105-115	5
1735	Human Pose and Path Estimation from Aerial Video Using Dynamic Classifier Selection. 2018, 10, 1019-1041	9
1734	A Data Mining Framework for Glaucoma Decision Support Based on Optic Nerve Image Analysis Using Machine Learning Methods.. 2018, 2, 370-401	3
1733	Finite-time boundedness and stabilization of uncertain switched delayed neural networks of neutral type. <i>Neurocomputing</i> , 2018, 314, 468-478	5-4 11
1732	Deep Learning in Data-Driven Pavement Image Analysis and Automated Distress Detection: A Review. 2018, 3, 28	56
1731	Deep Learning to Forecast Solar Irradiance Using a Six-Month UTSA Skylmager Dataset. 2018, 11, 1988	24
1730	Movie Recommendations Using the Deep Learning Approach. 2018,	10
1729	WOVSQLI. 2018,	10
1728	Dynamic L-RNN recovery of missing data in IoMT applications. 2018, 89, 575-583	19
1727	Machine Learning with Applications in Breast Cancer Diagnosis and Prognosis. 2018, 2, 13	59
1726	Deriving High Spatiotemporal Remote Sensing Images Using Deep Convolutional Network. 2018, 10, 1066	54
1725	Multi-level wavelet packet fusion in dynamic ensemble convolutional neural network for fault diagnosis. 2018, 127, 246-255	80
1724	Remaining useful life estimation using long short-term memory deep learning. 2018,	22
1723	Swarm Intelligence Approaches for Parameter Setting of Deep Learning Neural Network. 2018,	18
1722	Multi-Sensor Data Integration Using Deep Learning for Characterization of Defects in Steel Elements. 2018, 18,	43

1721	Approach for time series prediction based on empirical mode decomposition and extreme learning machine. 2018,		3
1720	Machine Learning for Turning Optical Fiber Specklegram Sensor into a Spatially-Resolved Sensing System. Proof of Concept. 2018, 36, 3733-3738		23
1719	Enhanced Multi-Level Signal Recovery in Mobile Fronthaul Network Using DNN Decoder. 2018, 30, 1511-1514	14	
1718	Computer network intrusion detection using sequential LSTM Neural Networks autoencoders. 2018,		25
1717	Optimization of deep convolutional neural network for large scale image retrieval. <i>Neurocomputing</i> , 2018, 303, 60-67	5-4	55
1716	Decision Support Tools, Systems, and Artificial Intelligence in Cardiac Imaging. 2018, 34, 827-838		14
1715	Deep semi-supervised learning for DTI prediction using large datasets and H2O-spark platform. 2018,		1
1714	Multi-cue fusion for emotion recognition in the wild. <i>Neurocomputing</i> , 2018, 309, 27-35	5-4	38
1713	PCANet: An energy perspective. <i>Neurocomputing</i> , 2018, 313, 271-287	5-4	9
1712	Automatic Arrival Time Detection for Earthquakes Based on Stacked Denoising Autoencoder. 2018, 15, 1687-1691		16
1711	Stochastic stability for distributed delay neural networks via augmented Lyapunov-Krasovskii functionals. 2018, 338, 869-881		36
1710	RETRACTED: A new deep representation for large-scale scene classification. 2018, 55, 761-765		1
1709	Topological Kernel Bayesian ARTMAP. 2018,		1
1708	Fault diagnosis of rolling bearing based on feature reduction with global-local margin Fisher analysis. <i>Neurocomputing</i> , 2018, 315, 447-464	5-4	38
1707	Spatial Extension of Road Traffic Sensor Data with Artificial Neural Networks. 2018, 18,		6
1706	Deep vanishing component analysis network for pattern classification. <i>Neurocomputing</i> , 2018, 316, 240-250	5-4	1
1705	Toward an optimal assignment of diagnosis method to mobile robots faults. 2018,		
1704	Sequence recognition of Chinese license plates. <i>Neurocomputing</i> , 2018, 317, 149-158	5-4	22

1703	. 2018,		2
1702	Deep visual domain adaptation: A survey. <i>Neurocomputing</i> , 2018, 312, 135-153	5.4	580
1701	Pixel-wise regression using U-Net and its application on pansharpening. <i>Neurocomputing</i> , 2018, 312, 364-371	5.4	48
1700	Evaluating the Performance of ResNet Model Based on Image Recognition. 2018,		17
1699	Pattern Recognition. 2018,		1
1698	Inbound e-marketing using neural network based visual and phonetic user experience analytics. 2018,		9
1697	Statistical and Machine Learning forecasting methods: Concerns and ways forward. 2018, 13, e0194889		389
1696	A scene image classification technique for a ubiquitous visual surveillance system. 2019, 78, 5791-5818		5
1695	Deep Learning. 2019, 634-647		3
1694	Deep ConvNet with Different Stochastic Optimizations for Handwritten Devanagari Character. 2019, 51-60		1
1693	Seismic Noise Attenuation Using Unsupervised Sparse Feature Learning. 2019, 57, 9709-9723		30
1692	Artificial Neural Networks for Forecasting Passenger Flows on Metro Lines. 2019, 19,		22
1691	Genetic Algorithm for Topology Optimization of an Artificial Neural Network Applied to Aircraft Turbojet Engine Identification. 2019,		1
1690	An Improved Particle Filter With a Novel Hybrid Proposal Distribution for Quantitative Analysis of Gold Immunochromatographic Strips. 2019, 18, 819-829		116
1689	Algorithms for immunochromatographic assay: review and impact on future application. 2019, 144, 5659-5676	19	
1688	Multi-Level Deep Cascade Trees for Conversion Rate Prediction in Recommendation System. 2019, 33, 338-345		12
1687	Fast Automatic Optimisation of CNN Architectures for Image Classification Using Genetic Algorithm. 2019,		12
1686	IoTCache: Toward Data-Driven Network Caching for Internet of Things. 2019, 6, 10064-10076		13

1685	Layered Belief Propagation for Low-Complexity Large MIMO Detection Based on Statistical Beams. 2019,		3
1684	Distributed Communicating Neural Network Architecture for Smart Environments. 2019,		0
1683	Image Fusion Through Deep Convolutional Neural Network. 2019, 37-52		5
1682	Deep Learning for Large-Scale Real-World ACARS and ADS-B Radio Signal Classification. 2019, 7, 89256-89264	25	
1681	Improving anomaly detection in BGP time-series data by new guide features and moderated feature selection algorithm. 2019, 27, 392-406		2
1680	Multi-modal deep learning model for auxiliary diagnosis of Alzheimer's disease. <i>Neurocomputing,</i> 2019, 361, 185-195	5-4	39
1679	An Intelligent Knowledge Extraction Framework for Recognizing Identification Information From Real-World ID Card Images. 2019, 7, 165448-165457		1
1678	A Deep Learning Approach for Slice to Volume Biomedical Image Integration. 2019,		
1677	A computer vision system to monitor the infestation level of <i>Varroa destructor</i> in a honeybee colony. 2019, 164, 104898		18
1676	Deep residual network based fault detection and diagnosis of photovoltaic arrays using current-voltage curves and ambient conditions. 2019, 198, 111793		85
1675	Implementation of Genetic Algorithm Integrated with the Deep Neural Network for Estimating at Completion Simulation. 2019, 2019, 1-15		2
1674	Learning patterns from time-series data to discriminate predictions of tail-biting, fouling and diarrhoea in pigs. 2019, 163, 104878		12
1673	Temperature Prediction of Solar Array Vacuum Heat Test Based on Deep Belief Network. 2019, 1168, 062032		
1672	Random Noise Attenuation Using Deep Convolutional Autoencoder. 2019,		
1671	A Deep Recursive Neural Network Model for Fine-Grained Opinion Classification. 2019, 607-621		1
1670	Accurate segmentation of overlapping cells in cervical cytology with deep convolutional neural networks. <i>Neurocomputing,</i> 2019, 365, 157-170	5-4	21
1669	Augmented Reality, Virtual Reality, and Computer Graphics. 2019,		1
1668	Hardware Realization of the Pattern Recognition with an Artificial Neuromorphic Device Exhibiting a Short-Term Memory. 2019, 24,		6

1667	A Survey on Deep Learning in Electromyographic Signal Analysis. 2019 , 751-761	2
1666	Classification of High Resolution Automotive Radar Imagery for Autonomous Driving Based on Deep Neural Networks. 2019 ,	4
1665	EternaBrain: Automated RNA design through move sets and strategies from an Internet-scale RNA videogame. 2019 , 15, e1007059	8
1664	Social Web and Health Research. 2019 ,	5
1663	Real-Time Tiny Part Defect Detection System in Manufacturing Using Deep Learning. 2019 , 7, 89278-89291	33
1662	Autonomous Robotics for Identification and Management of Invasive Aquatic Plant Species. 2019 , 9, 2410	4
1661	Automated Pipeline for Photovoltaic Module Electroluminescence Image Processing and Degradation Feature Classification. 2019 , 9, 1324-1335	25
1660	A novel data-temporal attention network based strategy for fault diagnosis of chiller sensors. 2019 , 198, 377-394	15
1659	Multi-feature Fusion Based on Supervised Multi-view Multi-label Canonical Correlation Projection. 2019 ,	5
1658	Behavioral Modeling and Linearization of Wideband RF Power Amplifiers Using BiLSTM Networks for 5G Wireless Systems. 2019 , 68, 10348-10356	89
1657	Deep Learning for Visual Indonesian Place Classification with Convolutional Neural Networks. 2019 , 157, 436-443	1
1656	An embarrassingly simple approach to neural multiple instance classification. 2019 , 128, 474-479	1
1655	Prevention of IP spoofing attack in cyber using artificial Bee colony and artificial neural network. 2019 ,	2
1654	Combination of Active Learning and Semi-Supervised Learning under a Self-Training Scheme. 2019 , 21, 988	7
1653	DBN-Based Fingerspelling Recognition Approach using Feature fusion. 2019 , 1302, 022023	
1652	Fruit Detection and Segmentation for AppleHarvesting Using Visual Sensor in Orchards. 2019 , 19,	42
1651	A Novel Two-stage Residual Learning Based Convolutional Neural Network for Image Super Resolution. 2019 , 168, 335-351	1
1650	Understanding unconventional preprocessors in deep convolutional neural networks for face identification. 2019 , 1, 1	1

1649	Convolution Neural Network-Based Prediction of Protein Thermostability. 2019 , 59, 4833-4843	5
1648	Bringing automated, remote-sensed, machine learning methods to monitoring crop landscapes at scale. 2019 , 50, 41-50	6
1647	Comprehensive Eye Diagram Analysis: A Transfer Learning Approach. 2019 , 11, 1-19	4
1646	Deep Neural Network for Ore Production and Crusher Utilization Prediction of Truck Haulage System in Underground Mine. 2019 , 9, 4180	14
1645	Multimodal Sequential Fashion Attribute Prediction. 2019 , 10, 308	7
1644	Environmental odour management by artificial neural network - A review. 2019 , 133, 105189	45
1643	Deep Feature Analysis in a Transfer Learning-based Approach for the Automatic Identification of Diabetic Macular Edema. 2019 ,	8
1642	Design of artificial neural network using particle swarm optimisation for automotive spring durability. 2019 , 33, 5137-5145	4
1641	. 2019 , 7, 147629-147641	23
1640	Harnessing Aspect-Based Sentiment Analysis: How Are Tweets Associated with Forecast Accuracy?. 2019 , 1174-1209	0
1639	Research on a New Singularity-Free Controller for Uncertain Lorenz System. 2019 , 7, 136290-136298	1
1638	BitFlow-Net: Toward Fully Binarized Convolutional Neural Networks. 2019 , 7, 154617-154626	2
1637	MRD-Nets: Multi-Scale Residual Networks With Dilated Convolutions for Classification and Clustering Analysis of Spacecraft Electrical Signal. 2019 , 7, 171584-171597	2
1636	Artificial Discretion as a Tool of Governance: A Framework for Understanding the Impact of Artificial Intelligence on Public Administration. 2019 ,	14
1635	MHDT. 2019 ,	
1634	Deep Learning-Based Parkinson's Disease Classification Using Vocal Feature Sets. 2019 , 7, 115540-115551	66
1633	Dimensionality Reduction Applied to Time Response of Linear Systems Using Autoencoders. 2019 ,	
1632	Parallelizable Reachability Analysis Algorithms for Feed-Forward Neural Networks. 2019 ,	13

1631 KI 2019: Advances in Artificial Intelligence. **2019**,

1630 Challenges and Opportunities of Deep Learning Models for Machinery Fault Detection and Diagnosis: A Review. **2019**, 7, 122644-122662 69

1629 Smart Coastline Environment Management Using Deep Detection of Manmade Pollution and Hazards. **2019**, 7

1628 RH-dependent organic aerosol thermodynamics via an efficient reduced-complexity model. **2019**, 1

1627 A comparison of intelligent classifiers of thermal patterns in diabetic foot. **2019**, 3

1626 Neural network-based indoor tag-less localization using capacitive sensors. **2019**, 2

1625 An Adaptive Memory Management Strategy Towards Energy Efficient Machine Inference in Event-Driven Neuromorphic Accelerators. **2019**, 1

1624 A Spiking Neural Network Based on the Model of VO₂ Neuron. **2019**, 8, 1065 10

1623 Execution and analysis of classic neural network algorithms when they are implemented in embedded systems. **2019**, 292, 01012 2

1622 Exploiting label information to improve auto-encoding based classifiers. *Neurocomputing*, **2019**, 370, 104-108 5-4 4

1621 A novel learning-based global path planning algorithm for planetary rovers. *Neurocomputing*, **2019**, 361, 69-76 5-4 15

1620 Finite-time dynamic surface control for induction motors with input saturation in electric vehicle drive systems. *Neurocomputing*, **2019**, 369, 166-175 5-4 11

1619 An architecture of deep learning network based on ensemble empirical mode decomposition in precise identification of bearing vibration signal. **2019**, 33, 41-50 16

1618 A Gender-Aware Deep Neural Network Structure for Speech Recognition. **2019**, 43, 635-644 5

1617 A Novel Genetically Optimized Convolutional Neural Network for Traffic Sign Recognition: A New Benchmark on Belgium and Chinese Traffic Sign Datasets. **2019**, 50, 3019-3043 13

1616 ObjectFusion: An object detection and segmentation framework with RGB-D SLAM and convolutional neural networks. *Neurocomputing*, **2019**, 345, 3-14 5-4 20

1615 Photoelectrochemical Nanosensors. **2019**, 197-229 1

1614 Data Augmentation Schemes for Deep Learning in an Indoor Positioning Application. **2019**, 8, 554 16

1613	Fusion Methods for CNN-Based Automatic Modulation Classification. 2019 , 7, 66496-66504		59
1612	Computer Networks. 2019 ,		
1611	Cyber Attack Detection by Using Neural Network Approaches: Shallow Neural Network, Deep Neural Network and AutoEncoder. 2019 , 144-155		7
1610	A Special Event-Based K-Nearest Neighbor Model for Short-Term Traffic State Prediction. 2019 , 7, 81717-81729		9
1609	Topological Clustering via Adaptive Resonance Theory With Information Theoretic Learning. 2019 , 7, 76920-76936		10
1608	Applied Physics, System Science and Computers III. 2019 ,		0
1607	Probabilistic grammar-based neuroevolution for physiological signal classification of ventricular tachycardia. 2019 , 135, 237-248		3
1606	DNNs as Applied to Electromagnetics, Antennas, and Propagation A Review. 2019 , 18, 2225-2229		79
1605	End-to-end semantic-aware object retrieval based on region-wise attention. <i>Neurocomputing</i> , 2019 , 359, 219-226	5-4	2
1604	A Forecasting Method of Electricity Sales Considering the User Churn Rate in a Power Market Environment. 2019 , 14, 1585-1596		1
1603	Grasping Inter-Attribute and Temporal Variability in Multivariate Time Series. 2019 , 1-1		
1602	An RBMs-BN method to RUL prediction of traction converter of CRH2 trains. 2019 , 85, 46-56		6
1601	Neural fashion experts: I know how to make the complementary clothing matching. <i>Neurocomputing</i> , 2019 , 359, 249-263	5-4	6
1600	On the impact of Citizen Science-derived data quality on deep learning based classification in marine images. 2019 , 14, e0218086		9
1599	Deep neural network concepts for background subtraction:A systematic review and comparative evaluation. 2019 , 117, 8-66		138
1598	Dependable Fire Detection System with Multifunctional Artificial Intelligence Framework. 2019 , 19,		15
1597	Status detection from spatial-temporal data in pipeline network using data transformation convolutional neural network. <i>Neurocomputing</i> , 2019 , 358, 401-413	5-4	7
1596	Image Neural Style Transfer With Preserving the Salient Regions. 2019 , 7, 40027-40037		8

1595	Biologically-Inspired Neuromorphic Computing. 2019 , 102, 261-276	4
1594	A survey of data fusion in smart city applications. 2019 , 52, 357-374	114
1593	Recognizing road from satellite images by structured neural network. <i>Neurocomputing</i> , 2019 , 356, 131-144	7
1592	Roof-Crush Protection Design of Automotive Bodies Using Clustering and Pattern Recognition. 2019 , 9, 1437	
1591	Deep Learning Meets Hyperspectral Image Analysis: A Multidisciplinary Review. 2019 , 5,	111
1590	A novel character segmentation-reconstruction approach for license plate recognition. 2019 , 131, 219-239	14
1589	RGB-D-Based Object Recognition Using Multimodal Convolutional Neural Networks: A Survey. 2019 , 7, 43110-43136	20
1588	An Empirical Study of Machine Learning Algorithms for Stock Daily Trading Strategy. 2019 , 2019, 1-30	17
1587	Sentiment-Aware Deep Recommender System With Neural Attention Networks. 2019 , 7, 45472-45484	16
1586	Knowledge Generation Using Sentiment Classification Involving Machine Learning on E-Commerce. 2019 , 6, 74-90	1
1585	Meta-analysis of deep neural networks in remote sensing: A comparative study of mono-temporal classification to support vector machines. 2019 , 152, 192-210	28
1584	Automatic landmark extraction from geo-tagged social media photos using deep neural network. 2019 , 93, 1-12	20
1583	A Comprehensive Survey of Prognostics and Health Management Based on Deep Learning for Autonomous Ships. 2019 , 68, 720-740	37
1582	Toward efficient energy systems based on natural gas consumption prediction with LSTM Recurrent Neural Networks. 2019 , 177, 530-542	47
1581	StressedNets: Efficient feature representations via stress-induced evolutionary synthesis of deep neural networks. <i>Neurocomputing</i> , 2019 , 352, 93-105	5-4 4
1580	Wavelet Analysis Based Classification of Emotion from EEG Signal. 2019 ,	13
1579	Multimodal brain tumor image segmentation using WRN-PPNet. 2019 , 75, 56-65	26
1578	A Survey of Knowledge Representation in Service Robotics. 2019 , 118, 13-30	33

1577	Siamese graph convolutional network for content based remote sensing image retrieval. 2019 , 184, 22-30	57
1576	. 2019 , 7, 61840-61855	51
1575	A Deep Neural Network Based Model for a Kind of Magnetorheological Dampers. 2019 , 19,	12
1574	SPRINT-Gly: predicting N- and O-linked glycosylation sites of human and mouse proteins by using sequence and predicted structural properties. 2019 , 35, 4140-4146	21
1573	Face recognition via Deep Stacked Denoising Sparse Autoencoders (DSDSA). 2019 , 355, 325-342	22
1572	Application of deep learning to cybersecurity: A survey. <i>Neurocomputing</i> , 2019 , 347, 149-176	5-4 102
1571	Arabic Sentiment Classification Using Convolutional Neural Network and Differential Evolution Algorithm. 2019 , 2019, 2537689	30
1570	Accurate modeling of photovoltaic modules using a 1-D deep residual network based on I-V characteristics. 2019 , 186, 168-187	31
1569	An N-way group association architecture and sparse data group association load balancing algorithm for sparse CNN accelerators. 2019 ,	6
1568	Improving electron micrograph signal-to-noise with an atrous convolutional encoder-decoder. 2019 , 202, 18-25	13
1567	Student Attendance System in Crowded Classrooms Using a Smartphone Camera. 2019 ,	6
1566	A Novel MFDFA Algorithm and Its Application to Analysis of Harmonic Multifractal Features. 2019 , 8, 209	5
1565	Deep Learning in Mobile and Wireless Networking: A Survey. 2019 , 21, 2224-2287	581
1564	Machine learning on adverse drug reactions for pharmacovigilance. 2019 , 24, 1332-1343	24
1563	Monotonic classification: An overview on algorithms, performance measures and data sets. <i>Neurocomputing</i> , 2019 , 341, 168-182	5-4 24
1562	TILAA: Tactile Internet-based Ambient Assistant Living in fog environment. 2019 , 98, 635-649	48
1561	Cancer Survival Analysis Using Machine Learning. 2019 ,	2
1560	Magnetic Resonance Imaging, texture analysis and regression techniques to non-destructively predict the quality characteristics of meat pieces. 2019 , 82, 110-125	7

1559	Integration of Deep Learning and Data Analytics for SAGD Temperature and Production Analysis. 2019,		3
1558	Parameter estimations of uncooperative space targets using novel mixed artificial neural network. <i>Neurocomputing</i> , 2019 , 339, 232-244	5-4	5
1557	Deep neural networks in psychiatry. 2019 , 24, 1583-1598		84
1556	Machine learning in cybersecurity: A review. 2019 , 9, e1306		27
1555	Deep Learning for Assistive Computer Vision. 2019 , 3-14		8
1554	Detecting Malicious Windows Commands Using Natural Language Processing Techniques. 2019 , 157-169		
1553	Delay-dependent global exponential stability for neural networks with time-varying delay. <i>Neurocomputing</i> , 2019 , 338, 172-180	5-4	20
1552	Experimental Realization of a Quantum Autoencoder: The Compression of Qutrits via Machine Learning. 2019 , 122, 060501		34
1551	Land-Use Change Detection with Convolutional Neural Network Methods. 2019 , 6, 25		24
1550	Selection of the optimal trading model for stock investment in different industries. 2019 , 14, e0212137		7
1549	Assessing Seismic Hazard in Chile Using Deep Neural Networks. 2019 ,		2
1548	Noise Tolerance of an Energy-Scalable Deep Learning Model with Two Extreme Bit-Precisions. 2019 ,		
1547	Early Experience in Forecasting Blood Glucose Levels Using a Delayed and Auto-Regressive Jump Neural Network. 2019 ,		1
1546	Deep bacteria: robust deep learning data augmentation design for limited bacterial colony dataset. 2019 , 11, 256		8
1545	False-Locality Attack Detection Using CNN in Named Data Networking. 2019 ,		0
1544	Modeling and Solution of the Routing Problem in Vehicular Delay-Tolerant Networks: A Dual, Deep Learning Perspective. 2019 , 9, 5254		3
1543	Sampled-data Synchronization of Recurrent Neural Networks with Multi-GPUs. 2019 ,		0
1542	Mapping the Research Landscape of Deep Learning from 2001 to 2019. 2019 ,		

1541	The hunt for red tides: Deep learning algorithm forecasts shellfish toxicity at site scales in coastal Maine. 2019 , 10, e02960	12
1540	Deep Active Imitation Learning in FIFA Free-Kicks Player Platforms Based on Raw Image and Object Detection State Representations. 2019 ,	
1539	Relative-humidity-dependent organic aerosol thermodynamics via an efficient reduced-complexity model. 2019 , 19, 13383-13407	10
1538	Optimal Delay Assignment in Delay-Aware Control of Cyber-Physical Systems: A Machine Learning Approach. 2019 ,	1
1537	An Enhanced Deep Convolutional Model for Spatiotemporal Image Fusion. 2019 , 11, 2898	33
1536	Investigating voice features for Speech emotion recognition based on four kinds of machine learning methods. 2019 ,	3
1535	Sensorimotor Cross-Behavior Knowledge Transfer for Grounded Category Recognition. 2019 ,	1
1534	Facial Expression Based Emotion Recognition Employing YOLOv3 Deep Neural Networks. 2019 ,	3
1533	Advancing IoT-Based Smart Irrigation. 2019 , 2, 20-25	15
1532	MEDA: Multi-output Encoder-Decoder for Spatial Attention in Convolutional Neural Networks. 2019 ,	
1531	Gray Scale Medical Image Compression using LM Algorithm. 2019 ,	
1530	A Novel Approach Web Services Based Long Tail Web Services Using Deep Neural Network. 2019 ,	
1529	Integrating Sequence and Network Information to Enhance Protein-Protein Interaction Prediction Using Graph Convolutional Networks. 2019 ,	3
1528	Deep Learning with Convolutional Neural Network and Long Short-Term Memory for Phishing Detection. 2019 ,	7
1527	Evaluating the Performance of the Deep Active Imitation Learning Algorithm in the Dynamic Environment of FIFA Player Agents. 2019 ,	
1526	. 2019 ,	8
1525	Restoration of Historical Document Images Using Convolutional Neural Networks. 2019 ,	2
1524	Protein Sequences Features Extraction for Predicting Beta- Turns and their Types: A Review. 2019 , 15, 1331-1340	0

1523	A comparative study to deep learning for pattern recognition, by using online and batch learning; taking cybersecurity as a case. 2019,	
1522	Comparison Study of Computational Prediction Tools for Drug-Target Binding Affinities. 2019, 7, 782	33
1521	Convolutional Neural Network Style Transfer Towards Chinese Paintings. 2019, 7, 163719-163728	3
1520	Facial Expression Recognition Using Computer Vision: A Systematic Review. 2019, 9, 4678	39
1519	Global Vectors Representation of Protein Sequences and Its Application for Predicting Self-Interacting Proteins with Multi-Grained Cascade Forest Model. 2019, 10,	5
1518	A Deep Learning Algorithm for Fully Automatic Brain Tumor Segmentation. 2019,	4
1517	Deep Learning-based Framework for Smart Sustainable Cities. 2019, 15, 76-107	1
1516	Sensing the turbulent large-scale motions with their wall signature. 2019, 31, 125112	16
1515	Evaluation-function modeling with neural networks for RoboCup soccer. 2019, 102, 40-46	3
1514	. 2019,	
1513	Model Predictive Control Based on Deep Reinforcement Learning Method with Discrete-Valued Input. 2019,	1
1512	Bayesian Proxy Modelling for Estimating Black Carbon Concentrations using White-Box and Black-Box Models. 2019, 9, 4976	14
1511	Forecasting Pavement Performance with a Feature Fusion LSTM-BPNN Model. 2019,	4
1510	Deep Learning based Detection of Hair Loss Levels from Facial Images. 2019,	3
1509	A Novel Fault Detection and Diagnosis Method Based on Gaussian-Bernoulli Restricted Boltzmann Machine. 2019,	1
1508	Erratum to The motivation, principles, and state of neuromorphic engineering. 2019, 102, 284-284	
1507	Parameter Setting for Deep Neural Networks Using Swarm Intelligence on Phishing Websites Classification. 2019, 28, 1960008	9
1506	Deep learning for bridge load capacity estimation in post-disaster and -conflict zones. 2019, 6, 190227	3

1505	Unsupervised Seismic Random Noise Attenuation Based on Deep Convolutional Neural Network. 2019 , 7, 179810-179822	22
1504	A Compact Trace Representation Using Deep Neural Networks for Process Mining. 2019 ,	2
1503	Mood Detection from Physical and Neurophysical Data Using Deep Learning Models. 2019 , 2019, 1-15	1
1502	The non-capacitor model of leaky integrate-and-fire VO2 neuron with the thermal mechanism of the membrane potential. 2019 , 1399, 022046	2
1501	Cascaded Layered Recurrent Neural Network for Indoor Localization in Wireless Sensor Networks. 2019 ,	3
1500	The Unbearable Shallow Understanding of Deep Learning. 2019 , 29, 515-553	13
1499	Deep Neural Networks Based Real-time Optimal Control for Lunar Landing. 2019 , 608, 012045	4
1498	Exploring Artificial Neural Networks: A Data Complexity Perspective. 2019 ,	0
1497	Light-Weight Recurrent Deep Learning Algorithm for Non-Intrusive Load Monitoring. 2019 ,	2
1496	Hybrid Machine Learning Classifiers to Predict Student Performance. 2019 ,	11
1495	Resource Characterisation of Personal-Scale Sensing Models on Edge Accelerators. 2019 ,	13
1494	Investigation of Reverse Mode Loudspeaker Performance in Urban Sound Classification. 2019 ,	1
1493	3D Convolutional Neural network for Home Monitoring using Low Resolution Thermal-sensor Array. 2019 ,	2
1492	Power-Driven DNN Dataflow Optimization on FPGA. 2019 ,	5
1491	Emergency Drug Procurement Planning Based on Big-Data Driven Morbidity Prediction. 2019 , 15, 6379-6388	6
1490	Personalized channel recommendation on live streaming platforms. 2019 , 78, 1999-2015	13
1489	Deep learning in radiology: An overview of the concepts and a survey of the state of the art with focus on MRI. 2019 , 49, 939-954	168
1488	. 2019 , 15, 6200-6209	30

1487	A segmentation method for processing greenhouse vegetable foliar disease symptom images. 2019 , 6, 216-223		8
1486	A novel 3D position measurement and structure prediction method for RFID tag group based on deep belief network. 2019 , 136, 25-35		7
1485	Un-supervised and semi-supervised hand segmentation in egocentric images with noisy label learning. <i>Neurocomputing</i> , 2019 , 334, 11-24	5.4	8
1484	An extensive experimental survey of regression methods. 2019 , 111, 11-34		65
1483	Deep feature learning for soft tissue sarcoma classification in MR images via transfer learning. 2019 , 120, 116-127		23
1482	Deep learning-based surrogate modeling and optimization for microalgal biofuel production and photobioreactor design. 2019 , 65, 915-923		40
1481	Least squares support vector machine with self-organizing multiple kernel learning and sparsity. <i>Neurocomputing</i> , 2019 , 331, 493-504	5.4	16
1480	Captured multi-label relations via joint deep supervised autoencoder. 2019 , 74, 709-728		8
1479	Learn to focus on objects for visual detection. <i>Neurocomputing</i> , 2019 , 348, 27-39	5.4	0
1478	Brightness guided preprocessing for automatic cold steel weapon detection in surveillance videos with deep learning. <i>Neurocomputing</i> , 2019 , 330, 151-161	5.4	31
1477	Sound Classification Using Convolutional Neural Network and Tensor Deep Stacking Network. 2019 , 7, 7717-7727		67
1476	A Fast Algorithm for Convolutional Neural Networks Using Tile-based Fast Fourier Transforms. 2019 , 50, 1951-1967		6
1475	Exploiting the generative adversarial framework for one-class multi-dimensional fault detection. <i>Neurocomputing</i> , 2019 , 332, 396-405	5.4	29
1474	Multi-input 1-dimensional deep belief network: action and activity recognition as case study. 2019 , 78, 17739-17761		2
1473	Deep Convolutional Generative Adversarial Network-Based Food Recognition Using Partially Labeled Data. 2019 , 3, 1-4		12
1472	Establishing the flow of information between two bio-inspired spiking neural networks. 2019 , 477, 80-99		1
1471	Feature-based aggregation and deep reinforcement learning: a survey and some new implementations. 2019 , 6, 1-31		52
1470	A Kernel Bayesian Adaptive Resonance Theory with A Topological Structure. 2019 , 29, 1850052		10

1469	SVM-CNN-Based Fusion Algorithm for Vehicle Navigation Considering Atypical Observations. 2019 , 26, 212-216		10
1468	Survey on brain tumor segmentation and feature extraction of MR images. 2019 , 8, 79-99		20
1467	Object detection and classification: a joint selection and fusion strategy of deep convolutional neural network and SIFT point features. 2019 , 78, 15751-15777		51
1466	Delay-dependent L ∞ state estimation for neural networks with state and measurement time-varying delays. <i>Neurocomputing</i> , 2019 , 331, 434-442	5-4	4
1465	Furnace thermal efficiency modeling using an improved convolution neural network based on parameter-adaptive mnemonic enhancement optimization. 2019 , 149, 332-343		7
1464	An Improved Residual Network for Electricity Power Meter Error Estimation. 2019 , 33, 1959024		1
1463	A deep learning model for predicting chemical composition of gallstones with big data in medical Internet of Things. 2019 , 94, 140-147		21
1462	A novel combination forecasting model for wind power integrating least square support vector machine, deep belief network, singular spectrum analysis and locality-sensitive hashing. 2019 , 168, 558-572		52
1461	A bearing vibration data analysis based on spectral kurtosis and ConvNet. 2019 , 23, 9341-9359		20
1460	An improved image mixed noise removal algorithm based on super-resolution algorithm and CNN. 2019 , 31, 325-336		6
1459	Recent advances in convolutional neural network acceleration. <i>Neurocomputing</i> , 2019 , 323, 37-51	5-4	137
1458	Early warning modeling and analysis based on a deep radial basis function neural network integrating an analytic hierarchy process: A case study for food safety. 2019 , 96, 329-342		29
1457	A convolutional neural network based on a capsule network with strong generalization for bearing fault diagnosis. <i>Neurocomputing</i> , 2019 , 323, 62-75	5-4	163
1456	Diagnosis and location of the open-circuit fault in modular multilevel converters: An improved machine learning method. <i>Neurocomputing</i> , 2019 , 331, 58-66	5-4	16
1455	Object detection using hybridization of static and dynamic feature spaces and its exploitation by ensemble classification. 2019 , 31, 347-361		4
1454	Image Segmentation Using Computational Intelligence Techniques: Review. 2019 , 26, 533-596		50
1453	RETRACTED ARTICLE: A method of multi-criteria set recognition based on deep feature representation. 2020 , 79, 9701-9701		
1452	RETRACTED ARTICLE: Utilizing a deep learning model to enhance video credibility verification system. 2020 , 79, 9707-9707		

1451	Deep neural network assisted diagnosis of time-frequency transformed electromyograms. 2020 , 79, 11051-11067		20
1450	A decade of big data literature: analysis of trends in light of bibliometrics. 2020 , 76, 3555-3571		11
1449	Genetic algorithm-optimized multi-channel convolutional neural network for stock market prediction. 2020 , 32, 7897-7914		42
1448	A self-organizing deep belief network based on information relevance strategy. <i>Neurocomputing</i> , 2020 , 396, 241-253	5-4	3
1447	Seasonal Crops Disease Prediction and Classification Using Deep Convolutional Encoder Network. 2020 , 39, 818-836		48
1446	Human-centered image classification via a neural network considering visual and biological features. 2020 , 79, 4395-4415		1
1445	Deep understanding of big multimedia data. <i>Neurocomputing</i> , 2020 , 391, 189-190	5-4	
1444	Deep convolutional neural network based fractional-order terminal sliding-mode control for robotic manipulators. <i>Neurocomputing</i> , 2020 , 416, 143-151	5-4	16
1443	Network-based filtering for positive systems with random communication delays and deception attacks. <i>Neurocomputing</i> , 2020 , 400, 450-457	5-4	9
1442	KDSAE: Chronic kidney disease classification with multimedia data learning using deep stacked autoencoder network. 2020 , 79, 35425-35440		24
1441	Big data driven jobs remaining time prediction in discrete manufacturing system: a deep learning-based approach. 2020 , 58, 2751-2766		31
1440	Segmented convolutional gated recurrent neural networks for human activity recognition in ultra-wideband radar. <i>Neurocomputing</i> , 2020 , 396, 451-464	5-4	24
1439	Learning to detect Android malware via opcode sequences. <i>Neurocomputing</i> , 2020 , 396, 599-608	5-4	28
1438	WOA + BRNN: An imbalanced big data classification framework using Whale optimization and deep neural network. 2020 , 24, 5573-5592		41
1437	An artificial bee colony-based kernel ridge regression for automobile insurance fraud identification. <i>Neurocomputing</i> , 2020 , 393, 115-125	5-4	10
1436	Review of intrusion detection systems based on deep learning techniques: coherent taxonomy, challenges, motivations, recommendations, substantial analysis and future directions. 2020 , 32, 9827-9858		17
1435	Restoration of Mammograms by Using Deep Convolutional Denoising Auto-Encoders. 2020 , 435-447		2
1434	A Robust Multi-label Fruit Classification Based on Deep Convolution Neural Network. 2020 , 105-115		2

1433	Recommendation system based on deep learning methods: a systematic review and new directions. 2020 , 53, 2709-2748		39
1432	A hybrid improved kernel LDA and PNN algorithm for efficient face recognition. <i>Neurocomputing</i> , 2020 , 393, 214-222	5.4	28
1431	Security topics related microblogs search based on deep convolutional neural networks. <i>Neurocomputing</i> , 2020 , 395, 199-211	5.4	3
1430	Adaptive learning-based finite-time performance of nonlinear switched systems with quantization behaviors and unmodeled dynamics. <i>Neurocomputing</i> , 2020 , 400, 384-392	5.4	1
1429	Modelling longitudinal vehicle dynamics with neural networks. 2020 , 58, 1675-1693		14
1428	Super-resolution using multi-channel merged convolutional network. <i>Neurocomputing</i> , 2020 , 394, 136-145	5.4	7
1427	Efficient classification and grading of MANGOES with GANFIS for improved performance. 2020 , 79, 4169-4184		6
1426	Enhancement of fraternal K-median algorithm with CNN for high dropout probabilities to evolve optimal time-complexity. 2020 , 23, 2001-2008		1
1425	Computer-aided diagnosis (CAD) system based on multi-layer feature fusion network for skin lesion recognition in dermoscopy images. 2020 , 79, 20483-20518		15
1424	A domain adaptation model for early gear pitting fault diagnosis based on deep transfer learning network. 2020 , 234, 168-182		15
1423	Classification of SAR and PolSAR images using deep learning: a review. 2020 , 11, 1-32		21
1422	A Hitchhiker's Guide On Distributed Training Of Deep Neural Networks. 2020 , 137, 65-76		15
1421	Quantitative model of irrigation effect on maize yield by deep neural network. 2020 , 32, 10679-10692		4
1420	How efficient deep-learning object detectors are?. <i>Neurocomputing</i> , 2020 , 385, 231-257	5.4	1
1419	Surrogate modeling of advanced computer simulations using deep Gaussian processes. 2020 , 195, 106731		12
1418	Deep learning, reusable and problem-based architectures for detection of consolidation on chest X-ray images. 2020 , 185, 105162		37
1417	Streamflow and rainfall forecasting by two long short-term memory-based models. 2020 , 583, 124296		58
1416	Compact models for adaptive sampling in marine robotics. 2020 , 39, 127-142		0

1415	Forecasting model for wind power integrating least squares support vector machine, singular spectrum analysis, deep belief network, and locality-sensitive hashing. 2020 , 23, 235-257		12
1414	Automatic Gun Detection Approach for Video Surveillance. 2020 , 12, 49-66		4
1413	Vision Tracking: A Survey of the State-of-the-Art. 2020 , 1, 1		11
1412	Kernel extreme learning machine with iterative picking scheme for failure diagnosis of a turbofan engine. 2020 , 96, 105539		9
1411	An ontology-driven multimedia focused crawler based on linked open data and deep learning techniques. 2020 , 79, 7577-7598		5
1410	An ensemble framework based on convolutional bi-directional LSTM with multiple time windows for remaining useful life estimation. 2020 , 115, 103182		78
1409	Deep learning for cyber security intrusion detection: Approaches, datasets, and comparative study. 2020 , 50, 102419		194
1408	Deep learning-based super-resolution of 3D magnetic resonance images by regularly spaced shifting. <i>Neurocomputing</i> , 2020 , 398, 314-327	5-4	4
1407	Predicting soil permanganate oxidizable carbon (POXC) by coupling DRIFT spectroscopy and artificial neural networks (ANN). 2020 , 168, 105098		11
1406	Real-time watermark reconstruction for the identification of source information based on deep neural network. 2020 , 17, 2077-2095		7
1405	Robust form-closure grasp planning for 4-pin gripper using learning-based Attractive Region in Environment. <i>Neurocomputing</i> , 2020 , 384, 268-281	5-4	6
1404	Aggregating diverse deep attention networks for large-scale plant species identification. <i>Neurocomputing</i> , 2020 , 378, 283-294	5-4	5
1403	Group behavior recognition based on deep hierarchical network. 2020 , 32, 5389-5398		1
1402	A knowledge-based heterogeneity characterization framework for 3D steam-assisted gravity drainage reservoirs. 2020 , 192, 105327		13
1401	Progressive Operational Perceptrons with Memory. <i>Neurocomputing</i> , 2020 , 379, 172-181	5-4	6
1400	A novel deep neural network based approach for sparse code multiple access. <i>Neurocomputing</i> , 2020 , 382, 52-63	5-4	15
1399	Adversarial attacks on Faster R-CNN object detector. <i>Neurocomputing</i> , 2020 , 382, 87-95	5-4	10
1398	Prediction of hot ductility of steels from elemental composition and thermal history by deep neural networks. 2020 , 47, 1176-1187		7

1397	Food det: Detecting foods in refrigerator with supervised transformer network. <i>Neurocomputing</i> , 2020 , 379, 162-171	5.4	2
1396	CPPCNDL: Crude oil price prediction using complex network and deep learning algorithms. 2020 , 6, 353-361		5
1395	A review of privacy-preserving techniques for deep learning. <i>Neurocomputing</i> , 2020 , 384, 21-45	5.4	36
1394	Can deep learning predict risky retail investors? A case study in financial risk behavior forecasting. 2020 , 283, 217-234		31
1393	Safe and Sound: Driver Safety-Aware Vehicle Re-Routing Based on Spatiotemporal Information. 2020 , 21, 3973-3989		2
1392	Evaluation of Deep Neural Networks for Reduction of Credit Card Fraud Alerts. 2020 , 8, 186421-186432		7
1391	Location-based Hybrid Deep Learning Model for Purchase Prediction. 2020 ,		0
1390	Tune Smarter Not Harder: A Principled Approach to Tuning Learning Rates for Shallow Nets. 2020 , 68, 5063-5078		
1389	Deep neural network for complex open-water wetland mapping using high-resolution WorldView-3 and airborne LiDAR data. 2020 , 93, 102215		11
1388	Refining aerosol optical depth retrievals over land by constructing the relationship of spectral surface reflectances through deep learning: Application to Himawari-8. 2020 , 251, 112093		10
1387	. 2020 , 8, 181916-181929		20
1386	Residual Dense Convolutional Neural Network for Image Super-Resolution. 2020 , 165341		5
1385	A Machine-Learning Based Nonintrusive Smart Home Appliance Status Recognition. 2020 , 2020, 1-21		4
1384	Prioritizing CircRNA-Disease Associations With Convolutional Neural Network Based on Multiple Similarity Feature Fusion. 2020 , 11, 540751		7
1383	Stages-Based ECG Signal Analysis From Traditional Signal Processing to Machine Learning Approaches: A Survey. 2020 , 8, 177782-177803		23
1382	Shoulder muscle activation pattern recognition based on sEMG and machine learning algorithms. 2020 , 197, 105721		9
1381	A hybrid neural network for predicting Days on Market a measure of liquidity in real estate industry. 2020 , 208, 106417		2
1380	Houghencoder: Neural Network Architecture for Document Image Semantic Segmentation. 2020 ,		5

1379	ED-ACNN: Novel attention convolutional neural network based on encoder-decoder framework for human traffic prediction. 2020 , 97, 106688	3
1378	Diagnosis of heart diseases by a secure Internet of Health Things system based on Autoencoder Deep Neural Network. 2020 , 162, 31-50	21
1377	High-speed rail pole number recognition through deep representation and temporal redundancy. <i>Neurocomputing</i> , 2020 , 415, 201-214	5-4 2
1376	Deep denoising autoencoder for seismic random noise attenuation. 2020 , 85, V367-V376	91
1375	iHBP-DeepPSSM: Identifying hormone binding proteins using PsePSSM based evolutionary features and deep learning approach. 2020 , 204, 104103	15
1374	Identifying Autism Spectrum Disorder From Resting-State fMRI Using Deep Belief Network. 2021 , 32, 2847-2861	16
1373	. 2020 , 8, 94757-94766	8
1372	. 2020 , 8, 110290-110305	4
1371	Deep Fusion for Radar Jamming Signal Classification Based on CNN. 2020 , 8, 117236-117244	8
1370	A Proposal for an Explainable Fuzzy-based Deep Learning System for Skin Cancer Prediction. 2020 ,	5
1369	Neural Networks for Indoor Human Activity Reconstructions. 2020 , 20, 13571-13584	8
1368	When I Look into Your Eyes: A Survey on Computer Vision Contributions for Human Gaze Estimation and Tracking. 2020 , 20,	15
1367	Neural-based time series forecasting of loss of coolant accidents in nuclear power plants. 2020 , 160, 113699	15
1366	Anomaly detection framework for Internet of things traffic using vector convolutional deep learning approach in fog environment. 2020 , 113, 255-265	29
1365	Deep Neural Network for Automatic Classification of Pathological Voice Signals. 2020 ,	4
1364	Deep Learning for SVD and Hybrid Beamforming. 2020 , 19, 6621-6642	11
1363	Improved Danmaku Emotion Analysis and Its Application Based on Bi-LSTM Model. 2020 , 8, 114123-114134	2
1362	Magnetic Resonance Images Based Brain Tumor Segmentation- A critical survey. 2020 ,	5

1361	System Error Prediction for Business Support Systems in Telecommunications Networks. 2020 , 31, 2723-2733	1
1360	Identification of Apple Tree Leaf Diseases Based on Deep Learning Models. 2020 , 12, 1065	27
1359	Gamma ray log generation from drilling parameters using deep learning. 2020 , 195, 107906	11
1358	Offloading framework for computation service in the edge cloud and core cloud: A case study for face recognition. 2020 , 31, e2146	3
1357	Machine learning integrated design for additive manufacturing. 2020 , 1	28
1356	Machine Learning Techniques in Radio-over-Fiber Systems and Networks. 2020 , 7, 105	9
1355	Topographic property of backpropagation artificial neural network: From human functional connectivity network to artificial neural network. <i>Neurocomputing</i> , 2020 , 418, 200-210	5-4 7
1354	Susceptibility Mapping on Urban Landslides Using Deep Learning Approaches in Mt. Umyeon. 2020 , 10, 8189	7
1353	Toward a Highly Accurate Classification of Underwater Cable Images via Deep Convolutional Neural Network. 2020 , 8, 924	7
1352	Algorithm Design of Early Warning Seatbelt Intelligent Adjustment System Based on Neural Network and Big Data Analysis. 2020 , 2020, 1-7	2
1351	A Hybrid Spatio-Temporal Prediction Model for Solar Photovoltaic Generation Using Numerical Weather Data and Satellite Images. 2020 , 12, 3706	3
1350	Automatic Development of Deep Learning Architectures for Image Segmentation. 2020 , 12, 9707	2
1349	Fast battery capacity estimation using convolutional neural networks. 2020 , 014233122096642	6
1348	EMOTIONET: A Multi-Convolutional Neural Network Hierarchical Approach to Facial and Emotional Classification using TPUs. 2020 ,	3
1347	All-terminal network reliability estimation using convolutional neural networks. 2020 , 1748006X2096946	3
1346	PI-Net: A Deep Learning Approach to Extract Topological Persistence Images. 2020 , 2020, 3639-3648	4
1345	The Development of a Skin Cancer Classification System for Pigmented Skin Lesions Using Deep Learning. 2020 , 10,	41
1344	An Energy-Efficient Bagged Binary Neural Network Accelerator. 2020 ,	1

1343	A Deep Learning Model for Fault Diagnosis with a Deep Neural Network and Feature Fusion on Multi-Channel Sensory Signals. 2020 , 20,			6
1342	Deep learning in citation recommendation models survey. 2020 , 162, 113790			22
1341	Metric learning with submodular functions. <i>Neurocomputing</i> , 2020 , 416, 328-339	5-4		1
1340	New optimal method for L2-L3 state estimation of delayed neural networks. <i>Neurocomputing</i> , 2020 , 415, 258-265	5-4		42
1339	Revising the dark fermentative H2 research and development scenario An overview of the recent advances and emerging technological approaches. 2020 , 140, 105673			8
1338	Hybrid of human learning optimization algorithm and particle swarm optimization algorithm with scheduling strategies for the flexible job-shop scheduling problem. <i>Neurocomputing</i> , 2020 , 414, 313-332	5-4		16
1337	Implementation a Context-Aware Plant Ecology Mobile Learning System. 2020 , 10, 215824402092070			3
1336	Monitoring agriculture areas with satellite images and deep learning. 2020 , 95, 106565			18
1335	Near Real-Time Global Solar Radiation Forecasting at Multiple Time-Step Horizons Using the Long Short-Term Memory Network. 2020 , 13, 3517			13
1334	An attention-based deep learning model for multiple pedestrian attributes recognition. 2020 , 102, 103981			7
1333	An End-to-End Multi-Level Wavelet Convolutional Neural Networks for heart diseases diagnosis. <i>Neurocomputing</i> , 2020 , 417, 187-201	5-4		7
1332	On Adaptive Learning Framework for Deep Weighted Sparse Autoencoder: A Multiobjective Evolutionary Algorithm. 2020 , PP,			8
1331	Techniques and applications for soccer video analysis: A survey. 2020 , 79, 29685-29721			6
1330	Thickness Distribution Prediction for Tectonically Deformed Coal with a Deep Belief Network: A Case Study. 2020 , 13, 1169			6
1329	MEM-OPT: A Scheduling and Data Re-Use System to Optimize On-Chip Memory Usage for CNNs On-Board FPGAs. 2020 , 10, 335-347			6
1328	GRANT: Ground-Roaming Autonomous Neuromorphic Targeter. 2020 ,			0
1327	Promising new Techniques for Computer Network Traffic Classification: A Survey. 2020 ,			
1326	Cryostructuring of Polymeric Systems : Application of Deep Neural Networks for the Classification of Structural Features Peculiar to Macroporous Poly(vinyl alcohol) Cryogels Prepared without and with the Additives of Chaotropes or Kosmotropes. 2020 , 25,			5

1325	Soft errors in DNN accelerators: A comprehensive review. 2020 , 115, 113969	11
1324	Choosing an appropriate training set size when using existing data to train neural networks for land cover segmentation. 2020 , 26, 329-342	5
1323	Automatic segmentation of tumors and affected organs in the abdomen using a 3D hybrid model for computed tomography imaging. 2020 , 127, 104097	10
1322	The intelligent multi-domain service function chain deployment: Architecture, challenges and solutions. 2020 , e4665	1
1321	A Fast Deployment Strategy for UAV Enabled Network Based on Deep Learning. 2020 ,	3
1320	Automatic Learning Framework for Pharmaceutical Record Matching. 2020 , 8, 171754-171770	1
1319	Predicting Patent Transactions Using Patent-Based Machine Learning Techniques. 2020 , 8, 188833-188843	2
1318	A Winograd-Based CNN Accelerator with a Fine-Grained Regular Sparsity Pattern. 2020 ,	3
1317	Deep Autoencoder Architectures For Foreground Object Detection In Video Sequences Based On Probabilistic Mixture Models. 2020 ,	
1316	A Conceptual Framework for Stochastic Neuromorphic Computing. 2020 , 1-1	0
1315	Automatic Segmentation Using a Hybrid Dense Network Integrated With an 3D-Atrous Spatial Pyramid Pooling Module for Computed Tomography (CT) Imaging. 2020 , 8, 169794-169803	4
1314	Continuous and Noninvasive Estimation of Right Ventricle Systolic Blood Pressure Using Heart Sound Signal by Deep Bidirectional LSTM Network. 2020 , 10, 5466	2
1313	A Framework for Sensorimotor Cross-Perception and Cross-Behavior Knowledge Transfer for Object Categorization. 2020 , 7, 522141	0
1312	PHND: Pashtu Handwritten Numerals Database and deep learning benchmark. 2020 , 15, e0238423	3
1311	Automated Diagnosis of Skin Lesions. 2020 ,	1
1310	Devanagari Handwritten Character Recognition using fine-tuned Deep Convolutional Neural Network on trivial dataset. 2020 , 45, 1	11
1309	Automatic fall detection using region-based convolutional neural network. 2020 , 27, 546-557	4
1308	A Lightweight Convolutional Neural Network for Real and Apparent Age Estimation in Unconstrained Face Images. 2020 , 8, 162800-162808	1

1307	Object detection based approach for Automatic detection of Pneumonia. 2020 ,	0
1306	A Subspace Based Transfer Joint Matching with Laplacian Regularization for Visual Domain Adaptation. 2020 , 20,	4
1305	. 2020 , 8, 156530-156538	0
1304	Removing non-resonant background from CARS spectra via deep learning. 2020 , 5, 061305	13
1303	Distributed Inference Acceleration with Adaptive DNN Partitioning and Offloading. 2020 ,	31
1302	Deep interactive encoding with capsule networks for image classification. 2020 , 79, 32243-32258	3
1301	Human Action Recognition Algorithm Based on Multi-Feature Map Fusion. 2020 , 8, 150945-150954	1
1300	DAN: a deep association neural network approach for personalization recommendation. 2020 , 21, 963-980	0
1299	Microgrid frequency regulation involving low-wind-speed wind turbine generators based on deep belief network. 2020 , 14, 2046-2054	2
1298	Mensch-Computer-Interaktion als zentrales Gebiet der Informatik [Bestandsaufnahme, Trends und Herausforderungen. 2020 , 43, 381-387	
1297	Machine Learning-Enabled Smart Sensor Systems. 2020 , 2, 2000063	38
1296	Deep learning for intelligent traffic sensing and prediction: recent advances and future challenges. 2020 , 2, 240-260	2
1295	Speech Enhancement for Hearing Aids with Deep Learning on Environmental Noises. 2020 , 10, 6077	3
1294	Deep Reinforcement Learning for Wireless Network. 2020 , 51-71	0
1293	ClothingNet: Cross-Domain Clothing Retrieval With Feature Fusion and Quadruplet Loss. 2020 , 8, 142669-142679	
1292	Compact Representation Learning Using Class Specific Convolution Coders - Application to Medical Image Classification. 2020 ,	
1291	Learning Features of Brain Network for Anomaly Detection. 2020 ,	1
1290	Data-driven low-frequency signal recovery using deep-learning predictions in full-waveform inversion. 2020 , 85, A37-A43	20

1289	Mathematical and computational models of RNA nanoclusters and their applications in data-driven environments. 2020 , 46, 1094-1115	6
1288	Algorithm of adaptation of electronic document management system based on machine learning technology. 2020 , 9, 287-303	6
1287	Deep Learning for LiDAR Point Clouds in Autonomous Driving: A Review. 2021 , 32, 3412-3432	47
1286	Ground radar precipitation estimation with deep learning approaches in meteorological private cloud. 2020 , 9,	4
1285	. 2020 , 8, 193396-193411	9
1284	Automatic Modulation Classification in Time-Varying Channels Based on Deep Learning. 2020 , 8, 197508-197522	2
1283	The Transition From Intelligent to Affective Tutoring System: A Review and Open Issues. 2020 , 8, 204612-204638	2
1282	An Empirical Study of the Dependency Networks of Deep Learning Libraries. 2020 ,	0
1281	FPGA Implementation of Hardware-Oriented Chaotic Boltzmann Machines. 2020 , 8, 204360-204377	2
1280	A Surrogate Model Based on Artificial Neural Networks for Wave Propagation in Uncertain Media. 2020 , 8, 218323-218330	3
1279	. 2020 ,	1
1278	Driver Distraction Detection Method Based on Continuous Head Pose Estimation. 2020 , 2020, 1-10	12
1277	Deep Learning on chromatographic data for Segmentation and Sensitive Analysis. 2020 , 1634, 461680	1
1276	Non-destructive automatic die-level defect detection of counterfeit microelectronics using machine vision. 2020 , 114, 113893	3
1275	Full-Car Active Suspension System Identification Using Flexible Deep Neural Network. 2020 ,	1
1274	Combining sequence and network information to enhance protein-protein interaction prediction. 2020 , 21, 537	4
1273	Temporal Backtracking and Multistep Delay of Traffic Speed Series Prediction. 2020 , 2020, 1-13	3
1272	An Approach of Feed-Forward Neural Network Throughput-Optimized Implementation in FPGA. 2020 , 9, 2193	6

1271	Functional Architecture for Autonomous Driving and its Implementation. 2020,	2
1270	A Pointer Type Instrument Intelligent Reading System Design Based on Convolutional Neural Networks. 2020, 8,	3
1269	A survey and analysis of intrusion detection models based on CSE-CIC-IDS2018 Big Data. 2020, 7,	27
1268	RA-UNet: A Hybrid Deep Attention-Aware Network to Extract Liver and Tumor in CT Scans. 2020, 8, 605132	56
1267	Efficient Tracking of Solvent Chamber Development During Warm Solvent Injection in Heterogeneous Reservoirs Via Machine Learning. 2020,	4
1266	Image Processing based on Deep Neural Networks for Detecting Quality Problems in Paper Bag Production. 2020, 93, 1224-1229	2
1265	Research on Electricity Consumption Behavior of Users Based on Deep Learning. 2020,	2
1264	Feature Integration Via Geometrical Supervised Multi-View Multi-Label Canonical Correlation For Incomplete Label Assignment. 2020,	
1263	DSCAE: a denoising sparse convolutional autoencoder defense against adversarial examples. 2020, 1	2
1262	A Reference-Model-Based Neural Network Control Method for Multi-Input Multi-Output Temperature Control System. 2020, 8, 1365	3
1261	Episodic Self-Imitation Learning with Hindsight. 2020, 9, 1742	5
1260	A Survey of Machine and Deep Learning Methods for Internet of Things (IoT) Security. 2020, 22, 1646-1685	256
1259	Data Reuse for Accelerated Approximate Warps. 2020, 39, 4623-4634	3
1258	Software engineering challenges for machine learning applications: A literature review. 2020, 13, 463-476	18
1257	Julia language in machine learning: Algorithms, applications, and open issues. 2020, 37, 100254	12
1256	Deep learning-based video surveillance system managed by low cost hardware and panoramic cameras. 2020, 27, 373-387	13
1255	CompactNet: learning a compact space for face presentation attack detection. <i>Neurocomputing,</i> 2020, 409, 191-207	5-4 6
1254	Optimization of dynamic behavior of thin-walled laminated cylindrical shells by genetic algorithms and deep neural networks supported by modal shape identification. 2020, 147, 102830	14

1253	In-situ sensor calibration in an operational air-handling unit coupling autoencoder and Bayesian inference. 2020 , 221, 110026		13
1252	Artificial intelligence within the interplay between natural and artificial computation: Advances in data science, trends and applications. <i>Neurocomputing</i> , 2020 , 410, 237-270	5-4	67
1251	Analysis and Utilization of Reverse Mode Loudspeakers. 2020 , 8, 66270-66280		
1250	Mind your privacy: Privacy leakage through BCI applications using machine learning methods. 2020 , 198, 105932		10
1249	A Two-Phase Transfer Learning-Based Power Spectrum Maps Reconstruction Algorithm for Underlay Cognitive Radio Networks. 2020 , 8, 81232-81245		2
1248	Response score of deep learning for out-of-distribution sample detection of medical images. 2020 , 107, 103442		3
1247	Comparative Study on Deep Convolution Neural Networks DCNN-Based Offline Arabic Handwriting Recognition. 2020 , 8, 95465-95482		16
1246	Effect of Social Media Interactions on CLV in Telecommunications. 2020 , 19, 447-468		1
1245	Enhancing the precision of magnetocrystalline anisotropy energy estimation from Barkhausen Noise using a deep neural network. 2020 , 24, 101145		2
1244	Toward effective mobile encrypted traffic classification through deep learning. <i>Neurocomputing</i> , 2020 , 409, 306-315	5-4	54
1243	Identification of Cancer Mediating Biomarkers using Stacked Denoising Autoencoder Model - An Application on Human Lung Data. 2020 , 167, 686-695		2
1242	Cancer-Related Gene Signature Selection Based on Boosted Regression for Multilayer Perceptron. 2020 , 8, 64992-65004		4
1241	Multiobjective optimization of deep neural networks with combinations of Lp-norm cost functions for 3D medical image super-resolution. 2020 , 27, 233-251		17
1240	Parameter estimation based-FDI method enhancement with mixed particle filter. <i>Neurocomputing</i> , 2020 , 403, 441-451	5-4	1
1239	New Perspective of Interpretability of Deep Neural Networks. 2020 ,		1
1238	Machine learning methods for digital holography and diffractive optics. 2020 , 169, 440-444		4
1237	Energy Internet. 2020 ,		1
1236	Multiclass Classification of Spatially Filtered Motor Imagery EEG Signals Using Convolutional Neural Network for BCI Based Applications. 2020 , 40, 663-672		13

1235	A Reinforcement Learning Agent based on Genetic Programming and Universal Search. 2020 ,		3
1234	Machine Learning based prediction of noncentrosymmetric crystal materials. 2020 , 183, 109792		8
1233	Improving deep neural network performance by integrating kernelized Min-Max objective. <i>Neurocomputing</i> , 2020 , 408, 82-90	5-4	3
1232	A Review of Convolutional Neural Network Applied to Fruit Image Processing. 2020 , 10, 3443		55
1231	Cable incipient fault identification using restricted Boltzmann machine and stacked autoencoder. 2020 , 14, 1242-1250		4
1230	Global-best optimization of ANN trained by PSO using the non-extensive cross-entropy with Gaussian gain. 2020 , 24, 18219-18231		3
1229	CyNAPSE: A Low-power Reconfigurable Neural Inference Accelerator for Spiking Neural Networks. 2020 , 92, 907-929		1
1228	A Multi-Scale Mapping Approach Based on a Deep Learning CNN Model for Reconstructing High-Resolution Urban DEMs. 2020 , 12, 1369		4
1227	Improved RSSI-Based Data Augmentation Technique for Fingerprint Indoor Localisation. 2020 , 9, 851		9
1226	Privacy-preserving representation learning for big data. <i>Neurocomputing</i> , 2020 , 406, 293-294	5-4	1
1225	Predicting the impacts of mutations on protein-ligand binding affinity based on molecular dynamics simulations and machine learning methods. 2020 , 18, 439-454		15
1224	Water Identification from High-Resolution Remote Sensing Images Based on Multidimensional Densely Connected Convolutional Neural Networks. 2020 , 12, 795		20
1223	Bias in Cross-Entropy-Based Training of Deep Survival Networks. 2021 , 43, 3126-3137		17
1222	Deep Learning on Computational-Resource-Limited Platforms: A Survey. 2020 , 2020, 1-19		16
1221	Learning to Describe: A New Approach to Computer Vision Based Ancient Coin Analysis. 2020 , 2, 8		8
1220	A robust weakly supervised learning of deep Conv-Nets for surface defect inspection. 2020 , 32, 11229-11244		17
1219	Stochastic Selection of Activation Layers for Convolutional Neural Networks. 2020 , 20,		14
1218	Dynamic gesture recognition by using CNNs and star RGB: A temporal information condensation. <i>Neurocomputing</i> , 2020 , 400, 238-254	5-4	20

1217	Machine Learning Algorithms for Optic Pathway Disease Diagnostics: A Review. 2020 , 767, 012067		1
1216	Blind Source Separation for the Aggregation of Machine Learning Algorithms: An Arrhythmia Classification Case. 2020 , 9, 425		1
1215	Classification of electromyographic hand gesture signals using machine learning techniques. <i>Neurocomputing</i> , 2020 , 401, 236-248	5-4	24
1214	Semantic and Generalized Entropy Loss Functions for Semi-Supervised Deep Learning. 2020 , 22,		4
1213	A comparative case study of neural network training by using frame-level cost functions for automatic speech recognition purposes in Spanish. 2020 , 79, 19669-19715		4
1212	Generalized and Mechanistic PV Module Performance Prediction From Computer Vision and Machine Learning on Electroluminescence Images. 2020 , 10, 878-887		13
1211	An image processing approach for rigid gas-permeable lens base-curve identification. 2020 , 14, 971-979		1
1210	Identification Method for Series Arc Faults Based on Wavelet Transform and Deep Neural Network. 2020 , 13, 142		8
1209	Bottleneck Feature-Based Hybrid Deep Autoencoder Approach for Indian Language Identification. 2020 , 45, 3425-3436		6
1208	A review and evaluation of the state-of-the-art in PV solar power forecasting: Techniques and optimization. 2020 , 124, 109792		191
1207	Deep Learning and Implementations in Banking. 2020 , 7, 433-446		5
1206	Application of deep neural networks for high-dimensional large BWR core neutronics. 2020 , 52, 2709-2716		3
1205	Stochastic region pooling: Make attention more expressive. <i>Neurocomputing</i> , 2020 , 409, 119-130	5-4	4
1204	Social media based surveillance systems for healthcare using machine learning: A systematic review. 2020 , 108, 103500		32
1203	Fuzzy Inspired Deep Belief Network for the Traffic Flow Prediction in Intelligent Transportation System Using Flow Strength Indicators. 2020 , 8, 291-307		0
1202	Cortico-Hippocampal Computational Modeling Using Quantum Neural Networks to Simulate Classical Conditioning Paradigms. 2020 , 10,		1
1201	Evaluation-function modeling with multi-layered perceptron for RoboCup soccer 2D simulation. 2020 , 25, 440-445		2
1200	Comparison of different deep neural network architectures for isothermal indoor airflow prediction. 2020 , 13, 1409-1423		6

1199	Non-iterative and Fast Deep Learning: Multilayer Extreme Learning Machines. 2020 , 357, 8925-8955	36
1198	A survey on instance segmentation: state of the art. 2020 , 9, 171-189	45
1197	Emerging approaches to support dynamic mission planning: survey and recommendations for future research. 2020 , 154851291989875	2
1196	Pavement Image Datasets: A New Benchmark Dataset to Classify and Densify Pavement Distresses. 2020 , 2674, 328-339	41
1195	Deep Regression Neural Network for Industrial Surface Defect Detection. 2020 , 8, 35583-35591	13
1194	Trust-embedded collaborative deep generative model for social recommendation. 2020 , 76, 8801-8829	2
1193	Literature Review on Transfer Learning for Human Activity Recognition Using Mobile and Wearable Devices with Environmental Technology. 2020 , 1, 1	18
1192	Deep Learning in Plant Diseases Detection for Agricultural Crops. 2020 , 11, 41-58	24
1191	A Passive Approach for Detecting Image Splicing Based on Deep Learning and Wavelet Transform. 2020 , 45, 3379-3386	8
1190	Review Deep Learning Methods for Sensor Based Predictive Maintenance and Future Perspectives for Electrochemical Sensors. 2020 , 167, 037552	41
1189	A graph-based taxonomy of citation recommendation models. 2020 , 53, 5217-5260	10
1188	Enhanced sparse filtering with strong noise adaptability and its application on rotating machinery fault diagnosis. <i>Neurocomputing</i> , 2020 , 398, 31-44	5-4 20
1187	Principled reward shaping for reinforcement learning via lyapunov stability theory. <i>Neurocomputing</i> , 2020 , 393, 83-90	5-4 9
1186	Universal fingerprint minutiae extractor using convolutional neural networks. 2020 , 9, 47-57	4
1185	Multi-parameter deep-perception and many-objective autonomous-control of rolling schedule on high speed cold tandem mill. 2020 , 102, 193-207	10
1184	Face Recognition Systems: A Survey. 2020 , 20,	84
1183	Extract interpretability-accuracy balanced rules from artificial neural networks: A review. <i>Neurocomputing</i> , 2020 , 387, 346-358	5-4 16
1182	GAAS: An Efficient Group Associated Architecture and Scheduler Module for Sparse CNN Accelerators. 2020 , 39, 5170-5182	1

1181	Multivariate time series forecasting via attention-based encoder-decoder framework. <i>Neurocomputing</i> , 2020 , 388, 269-279	5-4	80
1180	Detection and Defense of Cache Pollution Based on Popularity Prediction in Named Data Networking. 2020 , 1-1		1
1179	Integration of deep learning and data analytics for SAGD temperature and production analysis. 2020 , 24, 1239-1255		10
1178	. 2020 , 8, 18408-18419		0
1177	Exploring a Long Short-Term Memory based Encoder-Decoder framework for multi-step-ahead flood forecasting. 2020 , 583, 124631		84
1176	Towards Low-Cost Pavement Condition Health Monitoring and Analysis Using Deep Learning. 2020 , 10, 319		23
1175	A Power Spectrum Maps Estimation Algorithm Based on Generative Adversarial Networks for Underlay Cognitive Radio Networks. 2020 , 20,		15
1174	A Novel Hierarchical Hybrid Model for Short-Term Bus Passenger Flow Forecasting. 2020 , 2020, 1-16		5
1173	SPVec: A Word2vec-Inspired Feature Representation Method for Drug-Target Interaction Prediction. 2019 , 7, 895		19
1172	Conductive-bridging random-access memories for emerging neuromorphic computing. 2020 , 12, 14339-14368		18
1171	Prediction of Future Terrorist Activities Using Deep Neural Networks. 2020 , 2020, 1-16		18
1170	Voice Conversion Using a Perceptual Criterion. 2020 , 10, 2884		3
1169	Learning to Describe: A New Approach to Computer Vision Based Ancient Coin Analysis. 2020 , 2, 27		0
1168	Wind speed forecasting using deep neural network with feature selection. <i>Neurocomputing</i> , 2020 , 397, 393-403	5-4	29
1167	Smartphone as a monitoring tool for bipolar disorder: a systematic review including data analysis, machine learning algorithms and predictive modelling. 2020 , 138, 104131		20
1166	Deep octonion networks. <i>Neurocomputing</i> , 2020 , 397, 179-191	5-4	8
1165	Enhancing Sensing and Decision-Making of Automated Driving Systems With Multi-Access Edge Computing and Machine Learning. 2020 , 0-0		1
1164	. 2020 , 8, 64534-64544		21

1163	Quantisation and Pruning for Neural Network Compression and Regularisation. 2020 ,	5
1162	A Surrogate Model Based on Artificial Neural Network for RF Radiation Modelling with High-Dimensional Data. 2020 , 17,	3
1161	Literature Review on Big Data Analytics Methods. 2020 ,	3
1160	Deep machine learning approach to develop a new asphalt pavement condition index. 2020 , 247, 118513	62
1159	Data-driven nonlinear chemical process fault diagnosis based on hierarchical representation learning. 2020 , 98, 2150-2165	0
1158	A survey of the recent architectures of deep convolutional neural networks. 2020 , 53, 5455-5516	619
1157	The autonomous navigation and obstacle avoidance for USVs with ANOA deep reinforcement learning method. 2020 , 196, 105201	29
1156	Image recognition in UAV videos using convolutional neural networks. 2020 , 14, 176-181	4
1155	Fast convolution sparse filtering and its application on gearbox fault diagnosis. 2020 , 234, 2291-2304	3
1154	DNN models based on dimensionality reduction for stock trading. 2020 , 24, 19-45	2
1153	Recommender System Based on Temporal Models: A Systematic Review. 2020 , 10, 2204	8
1152	Deep Learning Classification for Diabetic Foot Thermograms. 2020 , 20,	28
1151	Prediction of intensity and location of seismic events using deep learning. 2021 , 42, 100442	6
1150	A survey of neural networks usage for intrusion detection systems. 2021 , 12, 497-514	27
1149	A tutorial on deep learning-based data analytics in manufacturing through a welding case study. 2021 , 63, 2-13	9
1148	Deep learning approach for facial age classification: a survey of the state-of-the-art. 2021 , 54, 179-213	9
1147	Performance benchmarking of deep learning framework on Intel Xeon Phi. 2021 , 77, 2486-2510	3
1146	Ensemble learning based on fitness Euclidean-distance ratio differential evolution for classification. 2021 , 20, 77-87	3

1145	On the training of a neural network for online path planning with offline path planning algorithms. 2021 , 57, 102142	24
1144	Deep learning controller for nonlinear system based on Lyapunov stability criterion. 2021 , 33, 1515-1531	4
1143	Diagnosing Parkinson by Using Deep Autoencoder Neural Network. 2021 , 73-93	2
1142	Deep Learning for Medical Decision Support Systems. 2021 ,	6
1141	Effectiveness of symmetric rejection for a secure and user convenient multistage biometric system. 2021 , 24, 49-60	3
1140	Detecting Adversarial Image Examples in Deep Neural Networks with Adaptive Noise Reduction. 2021 , 18, 72-85	44
1139	A Novel Quantum-Inspired Fuzzy Based Neural Network for Data Classification. 2021 , 9, 1031-1044	13
1138	Knowledge workers mental workload prediction using optimised ELANFIS. 2021 , 51, 2406-2430	14
1137	A Survey of Machine Learning Algorithms Based Forest Fires Prediction and Detection Systems. 2021 , 57, 559-590	12
1136	Hybrid deep neural network with adaptive galactic swarm optimization for text extraction from scene images. 2021 , 25, 1563-1580	18
1135	Task offloading based on deep learning for blockchain in mobile edge computing. 2021 , 27, 117-127	5
1134	Least-Squares Fuzzy Transforms and Autoencoders: Some Remarks and Application. 2021 , 29, 129-136	1
1133	Fault Classification with Data-Driven Methods. 2021 , 99-122	
1132	Bio-inspired Neurocomputing. 2021 ,	35
1131	Electrochemical and optical detection and machine learning applied to images of genosensors for diagnosis of prostate cancer with the biomarker PCA3. 2021 , 222, 121444	23
1130	Neural-Architecture-Search-Based Multiobjective Cognitive Automation System. 2021 , 15, 2918-2925	1
1129	Attention-based word embeddings using Artificial Bee Colony algorithm for aspect-level sentiment classification. 2021 , 545, 713-738	8
1128	A review on transfer learning in EEG signal analysis. <i>Neurocomputing</i> , 2021 , 421, 1-14	5.4 46

1127	Review and analysis of supervised machine learning algorithms for hazardous events in drilling operations. 2021 , 147, 367-384		27
1126	A survey on video-based Human Action Recognition: recent updates, datasets, challenges, and applications. 2021 , 54, 2259-2322		36
1125	Energy efficient ECG classification with spiking neural network. 2021 , 63, 102170		15
1124	A multilayer shallow learning approach to variation prediction and variation source identification in multistage machining processes. 2021 , 32, 1173-1187		1
1123	Automated diagnosis of COVID-19 with limited posteroanterior chest X-ray images using fine-tuned deep neural networks. 2020 , 51, 1-14		60
1122	A Convolutional Neural Network Using Dinucleotide One-hot Encoder for identifying DNA N6-Methyladenine Sites in the Rice Genome. <i>Neurocomputing</i> , 2021 , 422, 214-221	5-4	19
1121	Multi-input 2-dimensional deep belief network: diabetic retinopathy grading as case study. 2021 , 80, 6171-6186		2
1120	Deep-AntiFP: Prediction of antifungal peptides using distant multi-informative features incorporating with deep neural networks. 2021 , 208, 104214		14
1119	Research on Understanding the Effect of Deep Learning on User Preferences. 2021 , 46, 3247-3286		6
1118	A novel pipelined neural FIR architecture for nonlinear adaptive filter. <i>Neurocomputing</i> , 2021 , 440, 220-239		1
1117	Fault diagnosis with synchrosqueezing transform and optimized deep convolutional neural network: An application in modular multilevel converters. <i>Neurocomputing</i> , 2021 , 430, 24-33	5-4	15
1116	Autonomous litter surveying and human activity monitoring for governance intelligence in coastal eco-cyber-physical systems. 2021 , 200, 105478		8
1115	A Novel Sampling Technique for Multistart-Based Methods. 2021 , 2, 1		1
1114	Two decades on human reliability analysis: A bibliometric analysis and literature review. 2021 , 151, 107969		15
1113	A concise review of recent few-shot meta-learning methods. <i>Neurocomputing</i> , 2021 , 456, 463-468	5-4	14
1112	Machine learning in cardiovascular radiology: ESCR position statement on design requirements, quality assessment, current applications, opportunities, and challenges. 2021 , 31, 3909-3922		11
1111	The "Essence" of Network Security: An End-to-End Panorama. 2021 ,		1
1110	Multilayer perceptron based deep neural network for early detection of coronary heart disease. 2021 , 11, 127-138		5

1109	Network security and user abnormal behavior detection by using deep neural network. 2021 , 4, e260		
1108	Human face recognition based on convolutional neural network and augmented dataset. 2021 , 9, 29-37		4
1107	Building trust/distrust relationships on signed social service network through privacy-aware link prediction process. 2021 , 100, 106942		22
1106	Machine Intelligence and Big Data Analytics for Cybersecurity Applications. 2021 ,		2
1105	Identification of related languages from spoken data: Moving from off-line to on-line scenario. 2021 , 68, 101180		1
1104	Structural equation modeling and artificial neural networks approach to predict continued use of mobile taxi booking apps: the mediating role of hedonic motivation. 2021 , 55, 372-399		4
1103	Tree-RNN: Tree structural recurrent neural network for network traffic classification. 2021 , 167, 114363		12
1102	Combined Sentinel-1A With Sentinel-2A to Estimate Soil Moisture in Farmland. 2021 , 14, 1292-1310		14
1101	Count Estimation With a Low-Accuracy Machine Learning Model. 2021 , 8, 7079-7088		0
1100	A method of traffic police detection based on attention mechanism in natural scene. <i>Neurocomputing</i> , 2021 , 458, 592-601	5-4	3
1099	An accurate prediction method of multiple deterioration forms of tool based on multitask learning with low rank tensor constraint. 2021 , 58, 193-204		4
1098	Zero shot objects classification method of side scan sonar image based on synthesis of pseudo samples. 2021 , 173, 107691		7
1097	Visual link retrieval and knowledge discovery in painting datasets. 2021 , 80, 6599-6616		14
1096	An efficient approach for privacy preserving decentralized deep learning models based on secure multi-party computation. <i>Neurocomputing</i> , 2021 , 422, 245-262	5-4	17
1095	Advances in Data Science: Methodologies and Applications. 2021 ,		4
1094	Visual Cause Analytics for Traffic Congestion. 2021 , 27, 2186-2201		6
1093	A novel stacked sparse denoising autoencoder for mammography restoration to visual interpretation of breast lesion. 2021 , 14, 133-149		0
1092	Discrete-time high-order neural network identifier trained with high-order sliding mode observer and unscented Kalman filter. <i>Neurocomputing</i> , 2021 , 424, 172-178	5-4	2

1091	Towards Combatting COVID-19: A Risk Assessment System. 2021 , 1-1	2
1090	A Survey of Machine Learning for Network Fault Management. 2021 , 1-27	0
1089	Yield performance estimation of corn hybrids using machine learning algorithms. 2021 , 5, 82-89	3
1088	Beyond Deep Event Prediction: Deep Event Understanding Based on Explainable Artificial Intelligence. 2021 , 91-117	0
1087	Closing the Gap of Simulation to Reality in Electromagnetic Imaging of Brain Strokes via Deep Neural Networks. 2021 , 7, 13-21	6
1086	Object measurements from 2D microscopy images. 2021 , 159-183	
1085	Bring Color to Deep Q-Networks: Limitations and Improvements of DQN Leading to Rainbow DQN. 2021 , 135-149	
1084	Transfer Learning for Prognostics and Health Management (PHM) of Marine Air Compressors. 2021 , 9, 47	4
1083	Health Monitoring of Air Compressors Using Reconstruction-Based Deep Learning for Anomaly Detection with Increased Transparency. 2021 , 23,	4
1082	Parameterized Luenberger-Type H _∞ State Estimator for Delayed Static Neural Networks. 2021 , PP,	2
1081	A Survey on Secure Outsourced Deep Learning. 2021 , 129-163	1
1080	U-Net: Deep Learning for Extracting Building Boundary Collected by Drone of Agadir Harbor. 2021 , 111-121	1
1079	Neuroevolution in Deep Neural Networks: Current Trends and Future Challenges. 2021 , 1-1	12
1078	Pattern Recognition for Distributed Optical Fiber Vibration Sensing: A Review. 2021 , 1-1	9
1077	Music Genre Classification: Looking for the Perfect Network. 2021 , 55-67	2
1076	Machine Reading Comprehension (LSTM) Review (State of Art). 2021 , 491-514	
1075	Hybrid Deep Learning (hDL)-Based Brain-Computer Interface (BCI) Systems: A Systematic Review. 2021 , 11,	12
1074	. 2021 , 1-1	1

1073	Long Short-Term Memory With Gate and State Level Fusion for Light Field-Based Face Recognition. 2021 , 16, 1365-1379	8
1072	. 2021 , 1-1	1
1071	A Survey of Deep Learning Techniques for Cybersecurity in Mobile Networks. 2021 , 23, 1920-1955	7
1070	Advances in flux balance analysis by integrating machine learning and mechanism-based models. 2021 , 19, 4626-4640	3
1069	Learning efficient multi-task stereo matching network with richer feature information. <i>Neurocomputing</i> , 2021 , 421, 151-160	5-4 7
1068	IoT-based group size prediction and recommendation system using machine learning and deep learning techniques. 2021 , 3, 1	
1067	Prostat kanseri tahmini için etkili denetimli makine öğrenimi tekniklerinin karşılaştırılması. 2021 , 610-620	3
1066	Sparse Pixel Training of Convolutional Neural Networks for Land Cover Classification. 2021 , 9, 52067-52078	0
1065	DNN Inference Acceleration with Partitioning and Early Exiting in Edge Computing. 2021 , 465-478	1
1064	Machine Learning for the Detection and Identification of Internet of Things (IoT) Devices: A Survey. 2021 , 1-1	12
1063	Deep-Learning-Assisted Micro Impurity Detection on an Optical Surface. 2021 , 70, 1-9	0
1062	Deep Learning and Remote Sensing: Detection of Dumping Waste Using UAV. 2021 , 185, 361-369	10
1061	Deep Learning in Image Signal Processing for Minimal Method by Using Kernel DBN. 2021 , 41-50	
1060	Attention-Driven Graph Convolution Network for Remote Sensing Image Retrieval. 2021 , 1-5	5
1059	Artifact and Detail Attention Generative Adversarial Networks for Low-Dose CT Denoising. 2021 , 40, 3901-3918	0
1058	Computer Vision and Machine Learning. 2021 , 11-48	
1057	IAPSG: A Novel Intelligent Application Platform for Smart Grid. 632, 042055	
1056	Identifying Cotton Fields from Remote Sensing Images Using Multiple Deep Learning Networks. 2021 , 11, 174	5

1055	Redes neuronales convolucionales para la clasificaci3n de componentes independientes de rs-fMRI. 2021 , 24, e1626	1
1054	. 2021 , 9, 123672-123688	6
1053	Handwriting-based gender and handedness classification using convolutional neural networks. 2021 , 80, 35341	5
1052	A Multimodal AI-Leveraged Counter-UAV Framework for Diverse Environments. 2021 , 228-239	1
1051	Hardware-Based Spiking Neural Network Using a TFT-Type AND Flash Memory Array Architecture Based on Direct Feedback Alignment. 2021 , 9, 73121-73132	4
1050	Evaluation of Recurrent Neural Networks for Detecting Injections in API Requests. 2021 ,	
1049	A Deep Learning Framework to Preserve Privacy in Federated (Collaborative) Learning. 2021 , 1-28	
1048	Voltage Regulation of DC-DC Buck Converters Feeding CPLs via Deep Reinforcement Learning. 2021 , 1-1	5
1047	A new clustering method for the diagnosis of CoVID19 using medical images. 2021 , 51, 1-24	13
1046	An Overview of Applications of Artificial Intelligence Using Different Techniques, Algorithms, and Tools. 2021 , 325-347	1
1045	Machine learning for metal additive manufacturing: predicting temperature and melt pool fluid dynamics using physics-informed neural networks. 2021 , 67, 619-635	47
1044	Convolutional Neural Network for Behavioral Modeling and Predistortion of Wideband Power Amplifiers. 2021 , PP,	17
1043	Application of Machine Learning for Ransomware Detection in IoT Devices. 2021 , 393-420	7
1042	Detecting Leftover Food and the Shrimp for Estimating of the Shrimp Body Length Based on CNN. 2021 , 239-247	1
1041	A Comparison of Approaches for Synchronizing Events in Video Streams Using Audio. 2021 , 262-272	
1040	Deep Learning and RFID System Physical Anti-Collision. 2021 , 201-237	
1039	Cashmere and wool identification based on convolutional neural network. 2021 , 16, 155892502110050	2
1038	On the Performance of Convolutional Neural Networks Under High and Low Frequency Information. 2021 , 214-224	0

1037	A Dual-Domain CNN-Based Network for CT Reconstruction. 2021 , 9, 71091-71103	3
1036	The Analysis of the Figure. 2021 ,	
1035	Defense against Membership Inference Attack Applying Domain Adaptation with Addictive Noise. 2021 , 09, 92-108	0
1034	Feed-Forward Neural Network Training by Hybrid Bat Algorithm. 2021 , 52-66	20
1033	An Automated Light Trap to Monitor Moths (Lepidoptera) Using Computer Vision-Based Tracking and Deep Learning. 2021 , 21,	14
1032	. 2021 , 9, 101217-101238	3
1031	Towards Linking CNN Decisions with Cancer Signs for Breast Lesion Classification from Ultrasound Images. 2021 , 423-437	1
1030	Effectiveness of Transfer Learning for Deep Learning-Based Electrocardiogram Analysis. 2021 , 27, 19-28	7
1029	. 2021 , 14, 8447-8457	6
1028	Automatic machinery fault detection via using distributed sensor information. 2021 , 4, e270	
1027	Adaptive Technique for Brightness Enhancement of Automated Knife Detection in Surveillance Video with Deep Learning. 2021 , 46, 4049-4058	4
1026	A Survey of Machine Learning Techniques using for Image Classification in Home Security. 2021 , 1055, 012088	
1025	Personal Heart Health Monitoring Based on 1D Convolutional Neural Network. 2021 , 7,	6
1024	Receptive-Field and Switch-Matrices Based ReRAM Accelerator with Low Digital-Analog Conversion for CNNs. 2021 ,	
1023	An Extensive Study on Deep Learning: Techniques, Applications. 1	2
1022	Adding geodesic information and stochastic patch-wise image prediction for small dataset learning. <i>Neurocomputing</i> , 2021 , 456, 481-481	5-4 1
1021	Plant diseases and pests detection based on deep learning: a review. 2021 , 17, 22	57
1020	Estimation of Energy Produced in Hydroelectric Power Plant Industrial Automation Using Deep Learning and Hybrid Machine Learning Techniques. 2021 , 49, 213-232	3

1019	An ANN-based surrogate model for wave propagation in uncertain media. 1-14	
1018	Deep neural network-based strategy for optimal sensor placement in data assimilation of turbulent flow. 2021 , 33, 025119	12
1017	A Survey on Applications of Reinforcement Learning in Flying Ad-Hoc Networks. 2021 , 10, 449	8
1016	A deep learning approach to predict Hamburg rutting curve. 2021 , 22, 2159-2180	3
1015	Fault detection and diagnosis for rotating machinery: A model based on convolutional LSTM, Fast Fourier and continuous wavelet transforms. 2021 , 125, 103378	32
1014	Performance Analysis and Comparison of Faster R-CNN, Mask R-CNN and ResNet50 for the Detection and Counting of Vehicles. 2021 ,	2
1013	Compressive Shack-Hartmann wavefront sensor based on deep neural networks. 2021 , 503, 3194-3203	5
1012	Reliability Evaluation and Analysis of FPGA-Based Neural Network Acceleration System. 2021 , 29, 472-484	10
1011	Frame-by-frame annotation of video recordings using deep neural networks. 2021 , 12, e03384	2
1010	A regression approach to zebra crossing detection based on convolutional neural networks. 2021 , 3, 44-52	
1009	Beetle Antennae Search Strategy for Neural Network Model Optimization with Application to Glomerular Filtration Rate Estimation. 2021 , 53, 1501-1522	1
1008	Face Mask Detection System using CNN. 2021 ,	3
1007	KVGCN: A KNN Searching and VLAD Combined Graph Convolutional Network for Point Cloud Segmentation. 2021 , 13, 1003	3
1006	Privacy and Trust Redefined in Federated Machine Learning. 2021 , 3, 333-356	7
1005	Deep Cybersecurity: A Comprehensive Overview from Neural Network and Deep Learning Perspective. 2021 , 2, 1	27
1004	Real-Time Human Detection and Gesture Recognition for On-Board UAV Rescue. 2021 , 21,	18
1003	Further Results on Stability Analysis for Uncertain Delayed Neural Networks with Reliable Memory Feedback Control. 2021 , 2021, 1-16	
1002	A Neural Question Answering System for Basic Questions about Subroutines. 2021 ,	2

1001	Annotated Video Footage for Automated Identification and Counting of Fish in Unconstrained Seagrass Habitats. 2021 , 8,	2
1000	Identification of pumpkin powdery mildew based on image processing PCA and machine learning. 2021 , 80, 21085-21099	3
999	Predicting the Existence of COVID-19 using Machine Learning Based on Laboratory Findings. 2021 ,	1
998	Multitask Learning for Complaint Identification and Sentiment Analysis. 1	7
997	Machine learning on ligand-residue interaction profiles to significantly improve binding affinity prediction. 2021 , 22,	4
996	Defect Detection of Pandrol Track Fastener Based on Local Depth Feature Fusion Network. 2021 , 2021, 1-9	2
995	Online variational inference on finite multivariate Beta mixture models for medical applications. 2021 , 15, 1869-1882	6
994	Review of deep learning: concepts, CNN architectures, challenges, applications, future directions. 2021 , 8, 53	348
993	An integrated and Dynamic Wireless Intrusion Exposure Solutions based on Neural Network. 2021 , 1770, 012016	1
992	Portfolio management system in equity market neutral using reinforcement learning. 2021 , 51, 8119	5
991	Neural Networks for Big Data Analytics. 2021 , 277-297	
990	Machine Learning in Nano-Scale Biomedical Engineering. 2021 , 7, 10-39	8
989	A systematic review on overfitting control in shallow and deep neural networks. 2021 , 54, 6391	16
988	Multimodal deep neural networks for attribute prediction and applications to e-commerce catalogs enhancement. 2021 , 80, 25851	1
987	Improving Conversational Recommender System by Pretraining Billion-scale Knowledge Graph. 2021 ,	2
986	EEG based Major Depressive disorder and Bipolar disorder detection using Neural Networks:A review. 2021 , 202, 106007	13
985	Kernelized Unified Domain Adaptation on Geometrical Manifolds. 2021 , 167, 114078	0
984	Accelerating the Generation of Static Coupling Injection Maps Using a Data-Driven Emulator.	0

983	An Overview of Artificial Intelligence Applications in Liver and Pancreatic Imaging. 2021 , 13,	2
982	Keras2c: A library for converting Keras neural networks to real-time compatible C. 2021 , 100, 104182	5
981	Volume Reduction Techniques for the Classification of Independent Components of rs-fMRI Data: a Study with Convolutional Neural Networks. 2021 , 1	1
980	Residual error based knowledge distillation. <i>Neurocomputing</i> , 2021 , 433, 154-161	5-4 1
979	Flexible lane detection using CNNs. 2021 ,	2
978	A holistic review on energy forecasting using big data and deep learning models. 2021 , 45, 13489-13530	18
977	Smart Video Surveillance System Based on Edge Computing. 2021 , 21,	4
976	Detection and Classification of Human Activity for Emergency Response in Smart Factory Shop Floor. 2021 , 11, 3662	6
975	How Machine Learning Can Help Resolve Mobility Constraints in D2D Communications. 2021 , 205-226	
974	Deep learning approaches to pattern extraction and recognition in paintings and drawings: an overview. 2021 , 33, 12263	9
973	Human Action Recognition Using CNN-SVM Model. 105, 282-290	7
972	Medical image analysis based on deep learning approach. 2021 , 80, 1-34	18
971	A cloud-based condition monitoring system for fault detection in rotating machines using PROFINET process data. 2021 , 126, 103394	5
970	Detection of COVID-19 Disease in Chest X-Ray Images with capsul networks: application with cloud computing. 1-15	0
969	SCALODEEP: A Highly Generalized Deep Learning Framework for Real-Time Earthquake Detection. 2021 , 126, e2020JB021473	12
968	A two-stage CNN-based hand-drawn electrical and electronic circuit component recognition system. 2021 , 33, 13367	2
967	Image retrieval based on texture using latent space representation of discrete Fourier transformed maps. 1	1
966	Deep Neural Network with Hyperparameter Tuning for Detection of Heart Disease. 2021 ,	3

965	Automatic identification of cashmere and wool fibers based on microscopic visual features and residual network model. 2021 , 143, 103023	5
964	Finite element network analysis: A machine learning based computational framework for the simulation of physical systems. 2021 , 247, 106484	6
963	ReLy: Machine Learning for Ultra-Reliable, Low-Latency Messaging in Industrial Robots. 2021 , 59, 75-81	1
962	Comparison of Artificial and Spiking Neural Networks on Digital Hardware. 2021 , 15, 651141	10
961	An ensemble approach of improved quantum inspired gravitational search algorithm and hybrid deep neural networks for computational optimization. 2021 , 32, 2150100	2
960	Fake news detection: A hybrid CNN-RNN based deep learning approach. 2021 , 1, 100007	63
959	Vision-based Autonomous Vehicle Recognition. 2021 , 54, 1-37	1
958	Toward an Automatic Quality Assessment of Voice-Based Telemedicine Consultations: A Deep Learning Approach. 2021 , 21,	1
957	Teaching Quadruped to Walk Using Fault Adaptive Deep Reinforcement Learning Algorithm. 2021 ,	
956	The Importance of Feature Processing in Deep-Learning-Based Condition Monitoring of Motors. 2021 , 2021, 1-23	3
955	Reinforcement Learning-Based Autonomous Navigation and Obstacle Avoidance for USVs under Partially Observable Conditions. 2021 , 2021, 1-13	0
954	Robust leak localization in water distribution networks using computational intelligence. <i>Neurocomputing</i> , 2021 , 438, 195-208	5-4 5
953	Attention Mechanisms in CNN-Based Single Image Super-Resolution: A Brief Review and a New Perspective. 2021 , 10, 1187	6
952	Estimation of structural response using convolutional neural network: application to the Suramadu bridge. 2021 , ahead-of-print,	1
951	Leveraging Genetic Reports and Electronic Health Records for the Prediction of Primary Cancers: Algorithm Development and Validation Study. 2021 , 9, e23586	2
950	Artificial intelligence in disease diagnostics: A critical review and classification on the current state of research guiding future direction. 2021 , 11, 693-731	13
949	Deep learning frameworks to learn prediction and simulation focused control system models. 1	0
948	Improved support vector machine model in the prediction of tuberculosis incidence. 2021 , 1-9	

947	Computational Offloading in Mobile Edge with Comprehensive and Energy Efficient Cost Function: A Deep Learning Approach. 2021 , 21,	2
946	In-tunnel Accident Detection System based on the Learning of Accident Sound. 2021 , 15, 81-92	
945	Federated learning through model gossiping in wireless sensor networks. 2021 ,	1
944	Streaming Data and Data Streams. 1-16	
943	Computer-Aided Intracranial EEG Signal Identification Method Based on a Multi-Branch Deep Learning Fusion Model and Clinical Validation. 2021 , 11,	2
942	DERİN BENİME TEKNİKLERİNE NESNE TESPİTİVE TAKBİRİNİ BE İÇELEME.	1
941	Prioritizing Test Inputs for Deep Neural Networks via Mutation Analysis. 2021 ,	5
940	CoMB-Deep: Composite Deep Learning-Based Pipeline for Classifying Childhood Medulloblastoma and Its Classes. 2021 , 15, 663592	11
939	Adaptive Clustering-based Malicious Traffic Classification at the Network Edge. 2021 ,	1
938	Taxonomy, state-of-the-art, challenges and applications of visual understanding: A review. 2021 , 40, 100374	3
937	Situational Decision Making Using Situation Modeling and Deep Learning. 2021 ,	
936	Real-Time Traffic Counter Using Mobile Devices. 2021 , 3, 109-118	1
935	Electrode ageing estimation and open circuit voltage reconstruction for lithium ion batteries. 2021 , 37, 283-295	40
934	A new model for classification of human movements on videos using convolutional neural networks: MA-Net. 1-9	2
933	A deep artificial neural network architecture for mesh free solutions of nonlinear boundary value problems. 1	0
932	Drought Prediction and Analysis of Water level based on satellite images Using Deep Convolutional Neural Network. 1	0
931	Automatically Diagnosing Disk Bulge and Disk Herniation With Lumbar Magnetic Resonance Images by Using Deep Convolutional Neural Networks: Method Development Study. 2021 , 9, e14755	3
930	Blood Glucose Prediction in Type 1 Diabetes Using Deep Learning on the Edge. 2021 ,	4

929	Can deep learning solve a preschool image understanding problem?. 2021 , 33, 14401		1
928	Fintech Index Prediction Based on RF-GA-DNN Algorithm. 2021 , 2021, 1-9		0
927	Wind turbine fault diagnosis based on transfer learning and convolutional autoencoder with small-scale data. 2021 , 171, 103-115		20
926	A new scheme for the assessment of the robustness of Explainable Methods Applied to Brain Age estimation. 2021 ,		5
925	A Wireless Fingerprint Positioning Method Based on Wavelet Transform and Deep Learning. 2021 , 10, 442		0
924	Tool wear prediction using convolutional bidirectional LSTM networks. 1		3
923	SpaceNet: Make Free Space for Continual Learning. <i>Neurocomputing</i> , 2021 , 439, 1-11	5-4	5
922	Applications of Artificial Intelligence on the Modeling and Optimization for Analog and Mixed-Signal Circuits: A Review. 2021 , 68, 2418-2431		6
921	Performance Analysis of Deep Learning CNN Models for Variety Classification in Hazelnut. 2021 , 13, 6527		10
920	Quality assessment methodology based on machine learning with small datasets: Industrial castings defects. <i>Neurocomputing</i> , 2021 ,	5-4	3
919	Privacy-preserving remote deep-learning-based inference under constrained client-side environment. 1		0
918	Position Correction Model Based on Gated Hybrid RNN for AUV Navigation. 2021 , 70, 5648-5657		4
917	Feature Reuse for a Randomization Based Neural Network. 2021 ,		
916	Parametric Spectral Filters for Fast Converging, Scalable Convolutional Neural Networks. 2021 ,		
915	Real-Time Face Mask Detection in Deep Learning using Convolution Neural Network. 2021 ,		0
914	State-of-charge estimation of LiFePO4 batteries in electric vehicles: A deep-learning enabled approach. 2021 , 291, 116812		39
913	Deep learning for fine-grained classification of jujube fruit in the natural environment. 2021 , 15, 4150-4165		1
912	An FSCV Deep Neural Network: Development, Pruning, and Acceleration on an FPGA. 2021 , 25, 2248-2259		6

911	A Review on Human Action Recognition Approaches. 2021 ,	2
910	Training Sample Selection Strategy Applied to CNN in Magneto-Thermal Coupled Analysis. 2021 , 57, 1-4	3
909	Analyzing the Soft Error Reliability of Convolutional Neural Networks on Graphics Processing Unit. 2021 , 1933, 012045	1
908	Education-to-Skill Mapping Using Hierarchical Classification and Transformer Neural Network. 2021 , 11, 5868	1
907	Privacy-Preserving Cloud-Based DNN Inference. 2021 ,	0
906	A Synchronous Prediction Model Based on Multi-Channel CNN with Moving Window for Coal and Electricity Consumption in Cement Calcination Process. 2021 , 21,	4
905	Deep Spiking Convolutional Neural Network for Single Object Localization Based On Deep Continuous Local Learning. 2021 ,	1
904	The Right Tool for The Job? Assessing the Use of Artificial Intelligence for Identifying Administrative Errors. 2021 ,	0
903	A Survey on Machine-Learning Based Security Design for Cyber-Physical Systems. 2021 , 11, 5458	6
902	ELSTM: Co-Designing Highly-Efficient Large LSTM Training via Exploiting Memory-Saving and Architectural Design Opportunities. 2021 ,	2
901	Pipeline In-Line Inspection Method, Instrumentation and Data Management. 2021 , 21,	13
900	A Novel Analog Circuit Soft Fault Diagnosis Method Based on Convolutional Neural Network and Backward Difference. 2021 , 13, 1096	3
899	Recent advances in the application of deep learning methods to forestry. 2021 , 55, 1171-1202	8
898	Investigation of the fifth generation non-orthogonal multiple access technique for defense applications using deep learning. 154851292110228	0
897	Hybrid MPSO-CNN: Multi-level Particle Swarm optimized hyperparameters of Convolutional Neural Network. 2021 , 63, 100863	28
896	An empirical assessment of deep learning approaches to task-oriented dialog management. <i>Neurocomputing</i> , 2021 , 439, 327-339	5-4 4
895	A new deep auto-encoder using multiscale reconstruction errors and weight update correlation. 2021 , 559, 130-152	5
894	A deep neural network and random forests driven computer vision framework for identification and prediction of metanil yellow adulteration in turmeric powder. e6500	

893	An infrared and visible image fusion method based on multi-scale transformation and norm optimization. 2021 , 71, 109-129		40
892	Assessing the Impact of the Loss Function, Architecture and Image Type for Deep Learning-Based Wildfire Segmentation. 2021 , 11, 7046		3
891	Machine-Learning-Aided Mission-Critical Internet of Underwater Things. 2021 , 35, 160-166		4
890	Comparison of neutrosophic approach to various deep learning models for sentiment analysis. 2021 , 223, 107058		4
889	Sentiment Analysis of Arabic Tweets Related to COVID-19 Using Deep Neural Network. 2021 ,		0
888	An improved generative adversarial network with modified loss function for crack detection in electromagnetic nondestructive testing. 1		2
887	Integrating Interval Type-2 Fuzzy Sets into Deep Embedding Clustering to Cope with Uncertainty. 2021 ,		0
886	Learning image by-parts using early and late fusion of auto-encoder features. 2021 , 80, 29601-29615		1
885	Correlational graph attention-based Long Short-Term Memory network for multivariate time series prediction. 2021 , 106, 107377		4
884	Machine Learning and Deep Learning: Open Issues and Future Research Directions for the Next 10 Years. 2021 , 463-490		11
883	Modeling shear strength of medium- to ultra-high-strength concrete beams with stirrups using SVR and genetic algorithm. 2021 , 25, 10661-10675		0
882	Convolutional neural networks for medical image analysis: State-of-the-art, comparisons, improvement and perspectives. <i>Neurocomputing</i> , 2021 , 444, 92-110	5-4	26
881	Deep neural networks-based real-time optimal navigation for an automatic guided vehicle with static and dynamic obstacles. <i>Neurocomputing</i> , 2021 , 443, 329-344	5-4	5
880	Review on COVID-19 diagnosis models based on machine learning and deep learning approaches. 2021 , e12759		20
879	Chinese Emotional Dialogue Response Generation via Reinforcement Learning. 2021 , 21, 1-17		0
878	Classification of potential electric vehicle purchasers: A machine learning approach. 2021 , 168, 120759		5
877	GAN Based Three-Stage-Training Algorithm for Multi-view Facial Expression Recognition. 1		3
876	A multi-perspective approach for analyzing long-running live events on social media. A case study on the Big Four International fashion weeks. 2021 , 24, 100140		1

875	Multi-view spectral graph convolution with consistent edge attention for molecular modeling. <i>Neurocomputing</i> , 2021 , 445, 12-25	5-4	3
874	Remaining Useful Life Prediction for a Roller in a Hot Strip Mill Based on Deep Recurrent Neural Networks. 2021 , 8, 1345-1354		7
873	A genetic algorithm-assisted deep learning approach for crop yield prediction. 2021 , 25, 10617-10628		3
872	IoT-Based Solutions for Smart Healthcare. 2021 , 25-67		0
871	Fusing stacked autoencoder and long short-term memory for regional multistep-ahead flood inundation forecasts. 2021 , 598, 126371		5
870	Target Detection Network for SAR Images Based on Semi-Supervised Learning and Attention Mechanism. 2021 , 13, 2686		4
869	A case study on computer-aided diagnosis of nonerosive reflux disease using deep learning techniques. <i>Neurocomputing</i> , 2021 , 445, 149-166	5-4	1
868	An Empirical Study on Application of Machine Learning and Neural Network in English Learning. 2021 , 2021, 1-9		4
867	Voting in Transfer Learning System for Ground-Based Cloud Classification. 2021 , 3, 542-553		6
866	Diagnosing Hematological Disorders Using Deep Learning Method. 2021 , 4, 227-243		
865	An Enhanced Crow Search Inspired Feature Selection Technique for Intrusion Detection Based Wireless Network System. 1		
864	Deep forest model for diagnosing COVID-19 from routine blood tests. 2021 , 11, 16682		5
863	Deep learning based quantitative property-consequence relationship (QPCR) models for toxic dispersion prediction. 2021 , 152, 352-360		2
862	Frontiers in the Solicitation of Machine Learning Approaches in Vegetable Science Research. 2021 , 13, 8600		2
861	Efficient machine learning model for predicting drug-target interactions with case study for Covid-19. 2021 , 93, 107536		5
860	Assessment of Mel-Filter Bank Features on Sound Classifications Using Deep Convolutional Neural Network. 2021 ,		
859	Lithium-Ion Battery State of Charge (SoC) Estimation with Non-Electrical parameter using Uniform Fiber Bragg Grating (FBG). 2021 , 40, 102704		10
858	Prediction of gas yield generated by energy recovery from municipal solid waste using deep neural network and moth-flame optimization algorithm. 2021 , 311, 127672		7

857	Analyzing fusion of regularization techniques in the deep learning-based intrusion detection system. 2021 , 36, 7340			2
856	Verification of piecewise deep neural networks: a star set approach with zonotope pre-filter. 2021 , 33, 519-545			1
855	A Novel Two-Level Fusion Feature for Mixed ECG Identity Recognition. 2021 , 10, 2052			2
854	Classification of rice varieties with deep learning methods. 2021 , 187, 106285			12
853	A Novel Noise Removal Technique Influenced by Deep Convolutional Autoencoders on Mammograms. 2022 , 25-43			1
852	Deep Learning: A Comprehensive Overview on Techniques, Taxonomy, Applications and Research Directions. 2021 , 2, 420			71
851	On the stability and generalization of neural networks with VC dimension and fuzzy feature encoders. 2021 , 358, 8786-8786			1
850	Identification of acoustic emission sources for structural health monitoring applications based on convolutional neural networks and deep transfer learning. <i>Neurocomputing</i> , 2021 , 453, 1-12	5-4		12
849	Deep fire topology: Understanding the role of landscape spatial patterns in wildfire occurrence using artificial intelligence. 2021 , 143, 105122			3
848	Learning digital camera pipeline for extreme low-light imaging. <i>Neurocomputing</i> , 2021 , 452, 37-47	5-4		0
847	Click-event sound detection in automotive industry using machine/deep learning. 2021 , 108, 107465			4
846	Rock Strain Prediction Using Deep Neural Network and Hybrid Models of ANFIS and Meta-Heuristic Optimization Algorithms. 2021 , 6, 129			1
845	. 2021 , 69, 4142-4156			7
844	Experimental Demonstration of Efficient Coherent Combining of 19 Fiber Lasers By Adaptive Gain Coefficient SPGD Algorithm. 2021 , 42, 609-617			1
843	Zone scheduling optimization of pumps in water distribution networks with deep reinforcement learning and knowledge-assisted learning. 2021 , 25, 14757			2
842	Deep neural network for system of ordinary differential equations: Vectorized algorithm and simulation. 2021 , 5, 100058			2
841	A comprehensive survey on deep neural networks for stock market: The need, challenges, and future directions. 2021 , 177, 114800			24
840	Application of deep convolutional neural networks for automated and rapid identification and computation of crack statistics of thin cracks in strain hardening cementitious composites (SHCCs). 2021 , 122, 104159			4

839	A Deep Learning-Based Framework for Human Activity Recognition in Smart Homes. 2021 , 2021, 1-11	2
838	KRR-CNN: kernels redundancy reduction in convolutional neural networks. 1	1
837	Automated detection of premature ventricular contraction based on the improved gated recurrent unit network. 2021 , 208, 106284	2
836	Hashing person re-ID with self-distilling smooth relaxation. <i>Neurocomputing</i> , 2021 , 455, 111-124	5-4 4
835	Learning Textual Representations from Multiple Modalities to Detect Fake News Through One-Class Learning. 2021 ,	0
834	A rapid flood inundation modelling framework using deep learning with spatial reduction and reconstruction. 2021 , 143, 105112	5
833	Online handwritten Gurmukhi word recognition using fine-tuned Deep Convolutional Neural Network on offline features. 2021 , 5, 100037	3
832	Measurement and analysis of multi-modal image fusion metrics based on structure awareness using domain transform filtering. 2021 , 182, 109663	2
831	Channel State Information Prediction for Adaptive Underwater Acoustic Downlink OFDMA System: Deep Neural Networks Based Approach. 2021 , 70, 9063-9076	5
830	A Multi-Criteria Approach for Arabic Dialect Sentiment Analysis for Online Reviews: Exploiting Optimal Machine Learning Algorithm Selection. 2021 , 13, 10018	6
829	Field determination of hazardous chemicals in public security by using a hand-held Raman spectrometer and a deep architecture-search network. 2021 , 258, 119871	3
828	Multi-objective collaborative optimization in cement calcination process: A time domain rolling optimization method based on Jaya algorithm. 2021 , 105, 117-128	3
827	Advancements in satellite image classification : methodologies, techniques, approaches and applications. 2021 , 42, 7662-7722	2
826	Streamflow prediction using an integrated methodology based on convolutional neural network and long short-term memory networks. 2021 , 11, 17497	20
825	Predicting medication adherence using ensemble learning and deep learning models with large scale healthcare data. 2021 , 11, 18961	3
824	Deep neural network applied to joint shear strength for exterior RC beam-column joints affected by cyclic loadings. 2021 , 33, 1819-1832	3
823	Neural Network Based Perturbation-Location Fiber Specklegram Sensing System Towards Applications With Limited Number of Training Samples. 2021 , 39, 6315-6326	5
822	An efficient and effective deep convolutional kernel pseudoinverse learner with multi-filter. <i>Neurocomputing</i> , 2021 , 457, 74-83	5-4 1

821	Impact of the learning rate and batch size on NOMA system using LSTM-based deep neural network. 154851292110497	1
820	Diagnosis and grading of vesicoureteral reflux on voiding cystourethrography images in children using a deep hybrid model. 2021 , 210, 106369	0
819	Automatic identification of atrial fibrillation based on the modified Elman neural network with exponential moving average algorithm. 2021 , 183, 109806	1
818	Non-fragile extended dissipative synchronization of Markov jump inertial neural networks: An event-triggered control strategy. <i>Neurocomputing</i> , 2021 , 460, 399-408	5-4 0
817	Deep adversarial domain adaptation for breast cancer screening from mammograms. 2021 , 73, 102147	2
816	Explainable link prediction based on multi-granularity relation-embedded representation. 2021 , 230, 107402	0
815	WBA-DNN: A hybrid weight bat algorithm with deep neural network for classification of poisonous and harmful wild plants. 2021 , 190, 106478	4
814	Efficient tracking and estimation of solvent chamber development during warm solvent injection in heterogeneous reservoirs via machine learning. 2021 , 206, 109089	
813	Deep learning integral imaging for three-dimensional visualization, object detection, and segmentation. 2021 , 146, 106695	2
812	A machine learning-based surrogate model for optimization of truss structures with geometrically nonlinear behavior. 2021 , 196, 103572	4
811	Introspecting predictability of market fear in Indian context during COVID-19 pandemic: An integrated approach of applied predictive modelling and explainable AI. 2021 , 1, 100039	6
810	Admitting the addressee detection faultiness of voice assistants to improve the activation performance using a continuous learning framework. 2021 , 70, 65-79	1
809	Combining autoencoder neural network and Bayesian inversion to estimate heterogeneous permeability distributions in enhanced geothermal reservoir: Model development and verification. 2021 , 97, 102262	2
808	BISWSRBS: A Winograd-based CNN Accelerator with a Fine-grained Regular Sparsity Pattern and Mixed Precision Quantization. 2021 , 14, 1-28	
807	A Dataset and a Convolutional Model for Iconography Classification in Paintings. 2021 , 14, 1-18	7
806	A state-of-the-art review on modeling the biochar effect: Guidelines for beginners. 2022 , 802, 149861	
805	vPipe: A Virtualized Acceleration System for Achieving Efficient and Scalable Pipeline Parallel DNN Training. 2022 , 33, 489-506	0
804	Stock Prediction Based on Technical Indicators Using Deep Learning Model. 2022 , 70, 287-304	8

803	Arrhythmia and Disease Classification Based on Deep Learning Techniques. 2022 , 31, 835-851	1
802	Representation Learning Based on Autoencoder and Deep Adaptive Clustering for Image Clustering. 2021 , 2021, 1-11	1
801	Neurocognitive-Inspired Approach for Visual Perception in Autonomous Driving. 2021 , 113-134	0
800	Real-Time Multi-view Face Mask Detector on Edge Device for Supporting Service Robots in the COVID-19 Pandemic. 2021 , 507-517	1
799	Receptive Field Regularization Techniques for Audio Classification and Tagging With Deep Convolutional Neural Networks. 2021 , 29, 1987-2000	3
798	Classification of Craniosynostosis Images by Vigilant Feature Extraction. 2021 , 293-306	
797	Deep Transfer Learning for Interpretable Chest X-Ray Diagnosis. 2021 , 524-537	
796	Deep Learning Applications on Cybersecurity. 2021 , 611-621	
795	A Deep Neural Network Model for Predicting Electric Fields Induced by Transcranial Magnetic Stimulation Coil. 2021 , 9, 128381-128392	0
794	A generalized artificial intelligence model for estimating the friction angle of clays in evaluating slope stability using a deep neural network and Harris Hawks optimization algorithm. 1	15
793	DTAE: Deep Tensor Autoencoder for 3-D Seismic Data Interpolation. 2021 , 1-19	5
792	Energy-Aware Design Methodology for Myocardial Infarction Detection on Low-Power Wearable Devices. 2021 ,	2
791	On the Generalization Ability of Data-Driven Models in the Problem of Total Cloud Cover Retrieval. 2021 , 13, 326	2
790	Multiple Time Series Perceptive Network for User Tag Suggestion in Online Innovation Community. 2021 , 9, 28059-28065	0
789	Advanced Non-linear Generative Model with a Deep Classifier for Immunotherapy Outcome Prediction: A Bladder Cancer Case Study. 2021 , 227-242	0
788	Spectrum Data Reconstruction via Deep Convolutional Neural Network. 2021 , 636-644	
787	ACKEM: Automatic Classification, Using KNN Based Ensemble Modeling. 2021 , 536-557	2
786	Intelligent Radio Signal Processing: A Survey. 2021 , 9, 83818-83850	18

785	Word Level LSTM and Recurrent Neural Network for Automatic Text Generation. 2021,	1
784	A Brief Overview of Deep Learning Approaches to Pattern Extraction and Recognition in Paintings and Drawings. 2021, 487-501	2
783	CNN-Based PD Hand Tremor Detection Using Inertial Sensors. 2021, 1-1	4
782	A Machine Learning Based Approach for Recommending Unfamiliar Process Activities. 2021, 9, 104969-104979	1
781	Efficient binarizing split learning based deep models for mobile applications. 2021,	
780	Early Prediction of Chronic Kidney Disease Using Deep Belief Network. 2021, 1-1	2
779	Model-Based Reinforcement Learning from PILCO to PETS. 2021, 165-175	1
778	Session Based Recommendations Using Char-Level Recurrent Neural Networks. 2021, 30-41	
777	Using Convolutional Neural Networks to Recognition of Dolphin Images. 2019, 236-245	3
776	Application of Transfer Learning for Fine-Grained Vessel Classification Using a Limited Dataset. 2019, 125-131	4
775	Deep Neural Networks for Diagnosis of Osteoporosis: A Review. 2020, 65-78	2
774	Star-Based Reachability Analysis of Deep Neural Networks. 2019, 670-686	27
773	Hierarchical Deep Learning Approach for Plant Disease Detection. 2019, 383-393	2
772	Data Augmentation of Minority Class with Transfer Learning for Classification of Imbalanced Breast Cancer Dataset Using Inception-V3. 2019, 409-420	7
771	A Practical Grafting Model Based Explainable AI for Predicting Corporate Financial Distress. 2019, 5-15	1
770	Machine Learning of Combustion LES Models from Reacting Direct Numerical Simulation. 2020, 273-292	2
769	Age Estimation and Gender Prediction Using Convolutional Neural Network. 2020, 163-175	4
768	Generalized Entropy Loss Function in Neural Network: Variable Importance and Sensitivity Analysis. 2020, 535-545	2

767	A Novel Deep Learning Model to Secure Internet of Things in Healthcare. 2021 , 341-353	5
766	Configuring the Interval Target in a Multilayer Feedforward Neural Network on the Example of the Problem of Medical Diagnostics. 2021 , 463-475	4
765	Leveraging 3D-Raster-Images and DeepCNN with Multi-source Urban Sensing Data for Traffic Congestion Prediction. 2020 , 396-406	2
764	Inference Acceleration Model of Branched Neural Network Based on Distributed Deployment in Fog Computing. 2020 , 503-512	3
763	Classification of Plants Using Convolutional Neural Network. 2020 , 551-561	3
762	CW-CAE: Pulmonary Nodule Detection from Imbalanced Dataset Using Class-Weighted Convolutional Autoencoder. 2021 , 825-833	4
761	Review and Comparison of Commonly Used Activation Functions for Deep Neural Networks. 2021 , 203-224	22
760	Review on deep learning techniques for marine object recognition: Architectures and algorithms. 2020 , 118, 104458	29
759	Deep learning for prognostics and health management: State of the art, challenges, and opportunities. 2020 , 163, 107929	53
758	A convolutional fuzzy min-max neural network. <i>Neurocomputing</i> , 2020 , 405, 62-71	5-4 3
757	A trajectory planning method for robot scanning system using mask R-CNN for scanning objects with unknown model. <i>Neurocomputing</i> , 2020 , 404, 329-339	5-4 3
756	Multimodal biometric recognition systems using deep learning based on the finger vein and finger knuckle print fusion. 2020 , 14, 3859-3868	6
755	Casboundary: automated definition of integral Cas cassettes. 2021 , 37, 1352-1359	2
754	An automated light trap to monitor moths (Lepidoptera) using computer vision-based tracking and deep learning.	8
753	Frame-by-frame annotation of video recordings using deep neural networks.	2
752	A Practical Alzheimer Disease Classifier via Brain Imaging-Based Deep Learning on 85,721 Samples.	4
751	Biologically plausible learning in a deep recurrent spiking network.	3
750	. 2020 , 20, 65-76	5

749	Organization of machine learning based product development as per ISO 26262 and ISO/PAS 21448. 2020,	3
748	Auto-Scaling Network Service Chains Using Machine Learning and Negotiation Game. 2020, 17, 1322-1336	6
747	Integrating AI into radiology workflow: levels of research, production, and feedback maturity. 2020, 7, 016502	20
746	Comprehensive survey of deep learning in remote sensing: theories, tools, and challenges for the community. 2017, 11, 1	300
745	Learning vector quantization neural network for surface water extraction from Landsat OLI images. 2020, 14, 1	5
744	A Deep Learning Approach for Identifying User Communities Based on Geographical Preferences and Its Applications to Urban and Environmental Planning. 2020, 6, 1-24	4
743	Practical Accuracy Estimation for Efficient Deep Neural Network Testing. 2020, 29, 1-35	9
742	DeepVix. 2020,	4
741	Semi-supervised human resource scheduling based on deep presentation in the cloud. 2020, 2020,	2
740	Applying Internet information technology combined with deep learning to tourism collaborative recommendation system. 2020, 15, e0240656	6
739	Deep Learning Techniques for Cyber Security Intrusion Detection : A Detailed Analysis.	12
738	Neo. 2019, 12, 1705-1718	58
737	Plan-structured deep neural network models for query performance prediction. 2019, 12, 1733-1746	32
736	Deep Learning Based Automatic Speech Recognition for Turkish. 714-728	0
735	An Image-Based Approach to Detecting Structural Similarity Among Mixed Integer Programs.	0
734	Virtual Screening Meets Deep Learning. 2019, 15, 6-28	19
733	Applying 3D U-Net Architecture to the Task of Multi-Organ Segmentation in Computed Tomography. 2020, 25, 43-50	8
732	Forecasting stock price index movement using a constrained deep neural network training algorithm. 2020, 14, 313-323	4

731	In-Series U-Net Network to 3D Tumor Image Reconstruction for Liver Hepatocellular Carcinoma Recognition. 2020 , 11,	2
730	A High-Throughput Phenotyping System Using Machine Vision to Quantify Severity of Grapevine Powdery Mildew. 2019 , 2019, 9209727	13
729	Deep Learning. 2019 , 114-130	1
728	Mobile-based Deep Learning Models for Banana Disease Detection. 2020 , 10, 5674-5677	14
727	ERISNet: deep neural network for detection along the coastline of the Mexican Caribbean. 2019 , 7, e6842	20
726	Artificially Intelligent Cyber Security: Reducing Risk and Complexity. 2021 , 499-523	1
725	Quantum Based Deep Learning Models for Pattern Recognition. 2021 , 168-183	
724	Rapid classification of soils from different mining areas by laser-induced breakdown spectroscopy (LIBS) coupled with a PCA-based convolutional neural network. 2021 , 36, 2509-2518	1
723	Into the Unknown: Active Monitoring of Neural Networks. 2021 , 42-61	4
722	Adaptive System Identification via Low-Rank Tensor Decomposition. 2021 , 9, 139028-139042	
721	Reducing deep learning network structure through variable reduction methods in crop modeling. 2021 , 5, 196-207	1
720	The Era of Deep Learning in Wireless Networks. 2022 , 339-348	
719	A Tensor Space Model-Based Deep Neural Network for Text Classification. 2021 , 11, 9703	
718	kNN-based feature learning network for semantic segmentation of point cloud data. 2021 ,	1
717	Path planning and dynamic collision avoidance algorithm under COLREGs via deep reinforcement learning. <i>Neurocomputing</i> , 2021 , 468, 181-181	5-4 3
716	Can Neural Networks Forecast Open Field Burning of Crop Residue in Regions with Anthropogenic Management and Control? A Case Study in Northeastern China. 2021 , 13, 3988	0
715	A novel approach to predict network reliability for multistate networks by a deep neural network. 1-17	1
714	Distributed Bayesian optimisation framework for deep neuroevolution. <i>Neurocomputing</i> , 2021 ,	5-4 1

713	Seismic Random Noise Attenuation Using a Tied-Weights Autoencoder Neural Network. 2021 , 11, 1089		
712	Few-shot ship classification based on metric learning. 1		1
711	Intelligent Decision Support System.		
710	MLife: a lite framework for machine learning lifecycle initialization. 2021 , 1-21		1
709	Global optimization of objective functions represented by ReLU networks. 1		5
708	On the Quality of Deep Representations for Kepler Light Curves Using Variational Auto-Encoders. 2021 , 2, 706-728		1
707	Hybrid attention-based transformer block model for distant supervision relation extraction. <i>Neurocomputing</i> , 2021 , 470, 29-29	5-4	3
706	A novel malware classification and augmentation model based on convolutional neural network. 2022 , 112, 102515		4
705	Fusing CNNs and statistical indicators to improve image classification. 2022 , 79, 174-187		4
704	Improved Stress Estimation with Machine Learning and Ultrasonic Guided Waves. 2022 , 62, 237		0
703	CNN Variants for Computer Vision: History, Architecture, Application, Challenges and Future Scope. 2021 , 10, 2470		39
702	Semi-lexical languages: a formal basis for using domain knowledge to resolve ambiguities in deep-learning based computer vision. 2021 , 152, 143-149		0
701	Physics-guided deep learning for rainfall-runoff modeling by considering extreme events and monotonic relationships. 2021 , 603, 127043		5
700	Determining the contribution of environmental factors in controlling dust pollution during cold and warm months of western Iran using different data mining algorithms and game theory. 2021 , 132, 108287		7
699	Regression Problems. 2017 , 33-56		
698	Learning the Frame-2-Frame Ego-Motion for Visual Odometry with Convolutional Neural Network. 2017 , 500-511		1
697	Performance Enhancement of Satellite Image Classification Using a Convolutional Neural Network. 2018 , 673-682		2
696	Cloud of Line Distribution for Arbitrary Text Detection in Scene/Video/License Plate Images. 2018 , 433-443		

- 695 EternaBrain: Automated RNA design through move sets and strategies from an Internet-scale RNA videogame.
- 694 Learning Automata with 2-State Bayesian Estimators. **2018**, 2018, 40-45
- 693 Lesion Attributes Segmentation for Melanoma Detection with Deep Learning. 1
- 692 Performance Analysis of Deep Neural Network and Stacked Autoencoder for Image Classification. **2019**, 1-16 0
- 691 Verification and Repair of Neural Networks: A Progress Report on Convolutional Models. **2019**, 405-417
- 690 Design of Cognitive Healthcare System for Coronary Cardiac Disease Detection. **2019**, 1-34
- 689 Measuring the Angle of Hallux Valgus Using Segmentation of Bones on X-Ray Images. **2019**, 313-325 1
- 688 InformatiCup Competition 2019: Fooling Traffic Sign Recognition. **2019**, 325-332 0
- 687 Point Auto-Encoder and Its Application to 2D-3D Transformation. **2019**, 66-78 2
- 686 Analysis by Multiclass Multilabel Classification of the 2015 #SmearForSmear Campaign Using Deep Learning. **2019**, 193-205
- 685 An Adaptive Chirplet Filter for Range Profiles Automatic Target Recognition. **2019**, 351-360
- 684 Fault diagnosis model of deep belief networks based on adaptive genetic algorithm optimization. **2019**,
- 683 Modeling. **2019**, 37-53
- 682 Intelligent System for the Learning of Sign Language Based on Artificial Neural Networks. **2019**, 310-318
- 681 Evaluation of CNN-Based Human Pose Estimation for Body Segment Lengths Assessment. **2019**, 179-187
- 680 Network Anomaly Detection in Wireless Sensor Networks: A Review. **2019**, 196-207 2
- 679 Deep Learning-Based Security System Powered by Low Cost Hardware and Panoramic Cameras. **2019**, 317-326
- 678 Totally Looks Like - How Humans Compare, Compared to Machines. **2019**, 282-297 1

677	MLAttack: Fooling Semantic Segmentation Networks by Multi-layer Attacks. 2019 , 401-413	2
676	Cyber-Physical Systems Are Different. 2019 , 69-75	
675	Digital Design of Radial Basis Function Neural Network and Recurrent Neural Network. 2019 ,	
674	Viability of Viola-Jones method for the problem of image classification. 2019 ,	
673	Low Complexity Deep Learning for Mobile Face Expression Recognition. 2019 ,	1
672	Performance Analysis of Deep Learning Network Models of Localized Images in Chest X-ray Decision Support System. 2019 ,	
671	Object Detection on Spatially Inhomogeneous Backgrounds Using Neural Networks. 2019 , 55, 587-591	
670	Intelligent Field Data Capture and Surveillance Using Deep Learning. 2020 ,	
669	Granular space, knowledge-encoded deep learning architecture and remote sensing image classification. 2020 , 92, 103647	1
668	Leveraging Genetic Reports and Electronic Health Records for the Prediction of Primary Cancers: Algorithm Development and Validation Study (Preprint).	
667	Fine-Grained Sentiment Rating of Online Reviews with Deep-RNN. 2021 , 687-700	1
666	Extremely Low-bit Convolution Optimization for Quantized Neural Network on Modern Computer Architectures. 2020 ,	1
665	A Hybrid Deep Learning Framework using CNN and GRU-based RNN for Recognition of Pairwise Similar Activities. 2020 ,	0
664	Neuro-Kernel-Machine Network Utilizing Deep Learning and Its Application in Predictive Analytics in Smart City Energy Consumption. 2021 , 293-307	1
663	An Estimation Method of Candidate Region for Superimposing Information Based on Gaze Tracking Data in Soccer Videos. 2020 ,	
662	A Simple and Accurate Apollo-Trained Neural Network Controller for Mars Atmospheric Entry. 2020 , 2020, 1-15	0
661	An Effective Fusion of a Color and Texture Descriptor for an Image Retrieval System: An Exploratory Analysis. 2021 , 667-678	0
660	Analytics and Big Data in the Health Domain. 2022 , 73-102	1

659	Deep learning application in diverse fields with plant weed detection as a case study. 2021,	0
658	Deep learning in pervasive health monitoring, design goals, applications, and architectures: An overview and a brief synthesis. 2021, 22, 100221	1
657	A Spiking Stochastic Neuron Based on Stacked InGaZnO Memristors. 2100918	5
656	Role of Deep Learning in Predicting Aging-Related Diseases: A Scoping Review. 2021, 10,	
655	Deep prediction networks. <i>Neurocomputing</i> , 2021, 469, 321-321	5-4 1
654	Video Summarization Using Deep Neural Networks: A Survey. 2021, 109, 1838-1863	12
653	Tracking neural activity from the same cells during the entire adult life of mice.	1
652	The Correction Method of Visibility Forecasts Based on the Machine Learning. 2020, 808-814	
651	Artificial Intelligence in Potato Leaf Disease Classification: A Deep Learning Approach. 2021, 63-79	2
650	On Removing Algorithmic Priority Inversion from Mission-critical Machine Inference Pipelines. 2020	2
649	Retrieving Visually Linked Digitized Paintings. 2021, 233-247	0
648	Closer to Pre-trained Network Transfer Better. 2020,	
647	Job Placement Strategy with Opportunistic Resource Sharing for Distributed Deep Learning Clusters. 2020,	0
646	Pyramid Fusion Convolutional Network for Image Super-Resolution. 2020,	
645	Review on the Architectures and Applications of Deep Learning in Agriculture. 2020,	1
644	Evaluation of On-Chip Accelerator Performance Based on RocketChip. 2020,	1
643	Content-based Analysis of the Cultural Differences between TikTok and Douyin. 2020,	1
642	Application of deep learning and compressed sensing for reconstruction of images. 2020, 1706, 012068	1

- 641 HASeparator: Hyperplane-Assisted Softmax. **2020**, 1
- 640 Deep Learning for Password Guessing and Password Strength Evaluation, A Survey. **2020**,
- 639 Space Use-Case: Onboard Satellite Image Classification. **2021**, 199-218
- 638 COVID-19 Diagnosis Systems Based on Deep Convolutional Neural Networks Techniques: A Review. **2020**, 1
- 637 An Adaptive Model Update Object Tracking Algorithm based on DenseNet Features. **2020**, 1
- 636 Effective prediction of soil organic matter by deep SVD concatenation using FT-NIR spectroscopy. **2022**, 215, 105223 0
- 635 HAAR Characteristics-Based Traffic Volume Method Measurement for Street Intersections. **2020**, 258-285
- 634 A reinforcement learning method with closed-loop stability guarantee for systems with unknown parameters. **2020**, 53, 8157-8162 1
- 633 Object and lane detection for autonomous vehicle using YOLO V3 algorithm. **2021**, 0
- 632 A review: data driven-based fault diagnosis and RUL prediction of petroleum machinery and equipment. **2021**, 9, 724-747 6
- 631 Multi-source Open-Set Deep Adversarial Domain Adaptation. **2020**, 735-750 3
- 630 Symbolic regression of uncertainty-resilient inferential sensors for fault diagnostics. **2020**, 53, 11446-11451
- 629 Utilization of Big Data in Energy Internet Infrastructure. **2020**, 297-320
- 628 Invisible Poisoning: Highly Stealthy Targeted Poisoning Attack. **2020**, 173-198 0
- 627 Vehicle Activity Recognition Using DCNN. **2020**, 566-588
- 626 Identifying the Risk of Cardiovascular Diseases From the Analysis of Physiological Attributes. **2020**, 1
- 625 Comparison of Persian Handwritten Digit Recognition in Three Color Modalities Using Deep Neural Networks. **2020**, 125-136
- 624 Image Processing-Based Electronic Fence: A Review. **2020**, 327-336

623	Brain Tumor Classification Using Deep Neural Network. 2020 , 5, 765-769		3
622	LioNets: Local Interpretation of Neural Networks Through Penultimate Layer Decoding. 2020 , 265-276		3
621	Digital Recognition of Breast Cancer Using TakhisisNet. 2020 , 151-169		
620	Deep Learning Network. 2020 , 1-30		3
619	Using Normal/Abnormal Video Sequence Categorization to Efficient Facial Expression Recognition in the Wild. 2020 , 504-516		0
618	Improving FIFA Player Agents Decision-Making Architectures Based on Convolutional Neural Networks Through Evolutionary Techniques. 2020 , 371-386		1
617	RECOMMENDER SYSTEMS ROLE IN DEEP LEARNING - A SURVEY. 2020 , 8, 28		
616	Supervised Level-Wise Pretraining for Sequential Data Classification. 2020 , 449-457		
615	Mitigating File-Injection Attacks with Natural Language Processing. 2020 ,		1
614	Explainable AI for Deep Learning Based Disease Detection. 2021 ,		1
613	Deep Learning for Recommender Systems: Literature Review and Perspectives. 2021 ,		1
612	Graph-based Few-Shot Learning with Transformed Feature Propagation and Optimal Class Allocation. <i>Neurocomputing</i> , 2021 , 470, 247-247	5-4	10
611	A fuzzy deep predictive analytics approach for enhancing cycle time range estimation precision in wafer fabrication. 2021 , 1, 100010		4
610	Municipal Solid Waste Forecasting in China Based on Machine Learning Models. 2021 , 9,		3
609	Graph neural networks in node classification: survey and evaluation. 2022 , 33, 1		1
608	Edge-aided control dynamics for information diffusion in social Internet of Things. <i>Neurocomputing</i> , 2021 ,	5-4	0
607	Threat Detection in Social Media Images Using the Inception-v3 Model. 2021 , 575-582		0
606	Deep learning for 2D passive source detection in presence of complex cargo. 2020 , 36, 104001		0

605	Semantic Segmentation for Full-Waveform LiDAR Data Using Local and Hierarchical Global Feature Extraction. 2020,		1
604	Text Detection Design Based on Deep Neural Network. 2020,		0
603	Fast Eye Detector Using CPU Based Lightweight Convolutional Neural Network.		1
602	Cyber Security with AI Part I. 2021, 147-171		1
601	Adversarial Attacks Against Deep Generative Models on Data: A Survey. 2021, 1-1		1
600	MPAN: Multi-parallel attention network for session-based recommendation. <i>Neurocomputing</i> , 2022, 471, 230-241	5-4	2
599	Authoring multi-style terrain with global-to-local control. 2022, 119, 101122		0
598	A comprehensive framework of multiple semantics preservation in neural style transfer. 2022, 82, 103378		1
597	KSPMI: A Knowledge-based System for Predictive Maintenance in Industry 4.0. 2022, 74, 102281		6
596	Six Software Engineering Principles for Smarter Cyber-Physical Systems. 2021,		1
595	Soft-Sign Stochastic Gradient Descent Algorithm for Wireless Federated Learning. 2021,		0
594	. 2021,		
593	A Review on Automated Neural Network System for Tabular Data. 2021,		0
592	Application-aware QoS routing in SDNs using machine learning techniques. 1		1
591	FATALRead - Fooling visual speech recognition models. 1		0
590	LPI-HyADBS: a hybrid framework for lncRNA-protein interaction prediction integrating feature selection and classification. 2021, 22, 568		2
589	Real-time insect tracking and monitoring with computer vision and deep learning.		4
588	Impulsive Behavior Detection System Using Machine Learning and IoT. 1-12		0

587	Machine Learning Technique to Improve an Impedance Matching Characteristic of a Bent Monopole Antenna. 2021 , 11, 10829		0
586	General Inverse Design of Layered Thin-Film Materials with Convolutional Neural Networks.		7
585	Joint adaptive transfer learning network for cross-domain fault diagnosis based on multi-layer feature fusion. <i>Neurocomputing</i> , 2021 ,	5-4	1
584	Review of Image Classification Algorithms Based on Convolutional Neural Networks. 2021 , 13, 4712		14
583	A CNN-based multi-target fast classification method for AR-SSVEP. 2021 , 105042		4
582	Data multiplexed and hardware reused architecture for deep neural network accelerator. <i>Neurocomputing</i> , 2021 ,	5-4	1
581	Impact of Artificial Intelligence on Compound Discovery, Design, and Synthesis.. 2021 , 6, 33293-33299		3
580	A Deep Learning-Based Dirt Detection Computer Vision System for Floor-Cleaning Robots with Improved Data Collection. 2021 , 9, 94		3
579	A distributed deep reinforcement learning method for traffic light control. <i>Neurocomputing</i> , 2021 ,	5-4	0
578	A Practical Alzheimer Disease Classifier via Brain Imaging-Based Deep Learning on 85,721 Samples: A Multicentre, Retrospective Cohort Study.		
577	. 2021 , 1-1		1
576	A Comparative Analysis of Software Aging in Image Classifiers on Cloud and Edge. 2021 , 1-1		0
575	Gradient Boosted Neural Decision Forest. 2021 , 1-1		0
574	How Machine Learning changes the nature of cyberattacks on IoT networks: A survey. 2021 , 1-1		5
573	A New Hybrid Deep Neural Architectural Search based Ensemble Reinforcement Learning Strategy for Wind Power Forecasting. 2021 , 1-1		1
572	Predicting the Travel Distance of Patients to Access Healthcare Using Deep Neural Networks.. 2022 , 10, 4900411		0
571	Using machine learning to analyze and predict construction task productivity.		0
570	Deep embedded hybrid CNN+STM network for lane detection on NVIDIA Jetson Xavier NX. 2022 , 240, 107941		7

569	Securely Outsourcing Neural Network Inference to the Cloud with Lightweight Techniques. 2022 , 1-1	3
568	A multi-purpose dataset of Devanagari script comprising of isolated numerals and vowels.. 2022 , 40, 107723	
567	Social physics. 2022 , 948, 1-148	23
566	ECG-BiCoNet: An ECG-based pipeline for COVID-19 diagnosis using Bi-Layers of deep features integration.. 2022 , 142, 105210	14
565	A new lightweight convolutional neural network for radiation-induced liver disease classification. 2022 , 73, 103463	0
564	Inference of Urban Function Zone Based on Deep Neural Network. 2020 ,	
563	OpenCL Performance on the Intel Heterogeneous Architecture Research Platform. 2020 ,	1
562	Deep Neural Network and Weighted Ridge Regression Based Pixel Prediction Technique. 2020 ,	
561	Towards real-time and real-life image classification and detection using CNN: a review of practical applications requirements, algorithms, hardware and current trends. 2020 ,	0
560	Deep Neural Network Based Video Source Recognition. 2020 ,	
559	Identification of the Traffic Model Parameters for Network and Cloud Platform Security Management. 2020 ,	0
558	Self-Adapting Recurrent Models for Object Pushing from Learning in Simulation. 2020 ,	1
557	Diabetic Retinopathy Grading Based on a Hybrid Deep Learning Model. 2020 ,	1
556	Software Aging in Image Classification Systems on Cloud and Edge. 2020 ,	1
555	Color Channel Perturbation Attacks for Fooling Convolutional Neural Networks and A Defense Against Such Attacks. 2020 , 1, 181-191	1
554	Forecasting Cryptocurrency Prices Using Ensembles-Based Machine Learning Approach. 2020 ,	1
553	CSIScan: Learning CSI for Efficient Access Point Discovery in Dense WiFi Networks. 2020 ,	2
552	Evolutionary Attention Network for Medical Image Segmentation. 2020 ,	2

551	Localising In Complex Scenes Using Balanced Adversarial Adaptation. 2020,	
550	INN based Cognitive Spectrum Sensing with Optimization 2020,	1
549	Deep Neural Network Method to Classify Empon-Empon Herb Based on E-Nose. 2020,	0
548	Using Anonymous Protocol for Privacy Preserving Deep Learning Model. 2020,	
547	Evaluating the Emergence of Winning Tickets by Structured Pruning of Convolutional Networks. 2020,	0
546	APPLICATION OF DEEP NEURAL NETWORKS BASED ON PALLIATIVE ANALYSIS UNDER CONDITIONS OF INCOMPLETE INFORMATION OF OPTICAL THERMAL AND ELECTRIC NONDESTRUCTIVE TESTING FOR PREDICTION OF THE LIMIT RESOURCE OF OPERATION OF CONSTRUCTION. 2021, 1-15	0
545	Explanation of Machine Learning Models Revealed Influential Factors of Early Outcomes in Acute Ischemic Stroke: A registry database study.. 2022,	2
544	On the Fairness of Generative Adversarial Networks (GANs). 2021,	1
543	Honeypot Behaviour Patterns Learning for Mass Email Marketing Detection. 2021,	
542	Dual-Branch CNN for the Identification of Recyclable Materials. 2021,	0
541	Object Recognition System for Autonomous Vehicles Based on PCA and 1D-CNN. 2021,	0
540	Power System Transient Stability Assessment Based on PSO-DBN. 2021,	0
539	Energy-Efficient Model Compression and Splitting for Collaborative Inference Over Time-Varying Channels. 2021,	2
538	Novel Pruning of Dendritic Neuron Models for Improved System Implementation and Performance. 2021,	
537	Accelerating DNN Inference by Edge-Cloud Collaboration. 2021,	
536	Self-Attention Agreement Among Capsules. 2021,	1
535	An Efficient Supervised Deep Learning Approach for Covid chest Image classification from Deep Residual Networks. 2021,	
534	A multi-preference integrated algorithm (MPIA) for the deep learning-based recommender framework (DLRF). 2022, ahead-of-print,	0

533	A New Convolutional Neural Network Architecture for Automatic Detection of Brain Tumors in Magnetic Resonance Imaging Images. 2022 , 10, 2775-2782	4
532	SCRnet: A Spatial Consistency Guided Network Using Contrastive Learning for Point Cloud Registration. 2022 , 14, 140	1
531	A complete framework for accurate recognition and prognosis of COVID-19 patients based on deep transfer learning and feature classification approach.. 2022 , 1-46	0
530	Improved Perceptron of Subsurface Chlorophyll Maxima by a Deep Neural Network: A Case Study with BGC-Argo Float Data in the Northwestern Pacific Ocean. 2022 , 14, 632	0
529	A novel structural damage identification method based on the acceleration responses under ambient vibration and an optimized deep residual algorithm. 147592172110650	3
528	A configurable deep learning framework for medical image analysis. 1	2
527	Multiscale similarity ensemble framework for remaining useful life prediction. 2022 , 188, 110565	4
526	Optimization and Prediction on the Mechanical Behavior of Granite Particle Reinforced Al6061 Matrix Composites Using Deer Hunting Optimization Based DNN. 1	1
525	Machine Learning Applications for Short Reach Optical Communication. 2022 , 9, 30	4
524	Relations Between Entropy and Accuracy Trends in Complex Artificial Neural Networks. 2022 , 452-460	
523	Deep face recognition using full and partial face images. 2022 , 221-241	
522	A Spatiotemporal Fusion Method Based on Multiscale Feature Extraction and Spatial Channel Attention Mechanism. 2022 , 14, 461	1
521	Intelligent Sound Monitoring and Identification System Combining Triboelectric Nanogenerator-Based Self-Powered Sensor with Deep Learning Technique. 2112155	3
520	Inventory Optimization Using Machine Learning Algorithms. 2022 , 531-541	0
519	An IoT-enabled smart health care system for screening of COVID-19 with multi layers features fusion and selection. 1	2
518	Hyperparameter Tune for Neural Network to Improve Accuracy of Stock Market Prediction. 2022 , 65-76	
517	Automated Violence Detection in Video Crowd Using Spider Monkey-Grasshopper Optimization Oriented Optimal Feature Selection and Deep Neural Network. 1	0
516	A Hybrid parallel deep learning model for efficient intrusion detection based on metric learning. 1-27	5

515	Classification and pattern extraction of incidents: a deep learning-based approach. 1	0
514	A hybrid deep-learning model for fault diagnosis of rolling bearings under strong noise environment.	2
513	Identification of Autism in Children Using Static Facial Features and Deep Neural Networks.. 2022 , 12,	4
512	Machine health surveillance system by using deep learning sparse autoencoder. 1	
511	Kinematic Modeling for Biped Robot Gait Trajectory Using Machine Learning Techniques. 2022 , 19, 355	0
510	Human Faces Detection and Tracking for Crowd Management in Hajj and Umrah. 2022 , 71, 6275-6291	0
509	A new elite opposite sparrow search algorithm-based optimized LightGBM approach for fault diagnosis.. 2022 , 1-19	1
508	Efficient Framework for Detecting COVID-19 and Pneumonia from Chest X-Ray Using Deep Convolutional Network. 2022 ,	1
507	Scalability Analysis of Machine Learning QoTEstimators for Cloud-native SDN Controller.	0
506	VDFEFuse: A novel fusion approach to infrared and visible images. 2022 , 121, 104048	0
505	Fractional-order convolutional neural networks with population extremal optimization. <i>Neurocomputing</i> , 2022 , 477, 36-45	5-4
504	A machine learning strategy for fast prediction of cardiac function based on peripheral pulse wave.. 2022 , 216, 106664	1
503	Communication-Loss Trade-Off in Federated Learning: A Distributed Client Selection Algorithm. 2022 ,	
502	Representation learning and retrieval. 2022 , 221-241	
501	Deep Learning Interpretation of Biomedical Data. 2022 , 121-142	0
500	Image Classification by Reinforcement Learning With Two-State Q-Learning. 2022 , 171-181	1
499	Contextual-Aware Information Extractor with Adaptive Objective for Chinese Medical Dialogues.	
498	An ensemble model for link prediction based on graph embedding. 2022 , 113753	1

497	Evolutionary deep learning: A survey. <i>Neurocomputing</i> , 2022 , 483, 42-58	5-4	7
496	One-Dimensional Convolutional Neural Networks for Hyperspectral Analysis of Nitrogen in Plant Leaves. 2021 , 11, 11853		1
495	A Comparative Survey of Deep Learning Based Techniques and Tools Used in Modern Farming. 2022 , 261-272		
494	Automatic Image Labelling for Deep-Learning-Based Navigation of Agricultural Robots. 2022 , 186-194		
493	A Survey on Hybrid Case-Based Reasoning and Deep Learning Systems for Medical Data Classification. 2022 , 113-141		
492	A Signal-to-Data Translation Model for Robust Backscatter Communications. 2022 , 10, 27440-27452		
491	The Application of Artificial Intelligence to Nuclear Power Plant Safety. 2022 , 117-127		
490	Resource Allocation in Satellite Networks From Physical to Virtualized Network Functions. 2022 , 559-580		
489	Deep Learning: Why Neural Networks Are State of the Art. 2022 , 31-46		
488	Modulation Classification of Active Attacks in Internet of Things: Lightweight MCBLDN with Spatial Transformer Network. 2022 , 1-1		
487	Learning Configurations of Operating Environment of Autonomous Vehicles to Maximize their Collisions. 2022 , 1-1		0
486	Comparison of Deep Learning Techniques for Classification of the Insects in Order Level With Mobile Software Application. 2022 , 10, 35675-35684		0
485	VAC-CNN: A Visual Analytics System for Comparative Studies of Deep Convolutional Neural Networks.. 2022 , PP,		1
484	Data Augmentation and Transfer Learning for Brain Tumor Detection in Magnetic Resonance Imaging. 2022 , 10, 23217-23233		3
483	Binary neural network computing architecture. 2022 , 97-109		
482	Historical Arabic Images Classification and Retrieval Using Siamese Deep Learning Model. 2022 , 72, 2109-2125	1	
481	Machine Learning Approaches for Reconfigurable Intelligent Surfaces: A Survey. 2022 , 10, 27343-27367		3
480	Artificial intelligence in the reduction and management of land pollution. 2022 , 319-333		

479	AlgaeNet: A Deep Learning Framework to Detect Floating Green Algae from Optical and SAR Imagery. 2022 , 1-1	4
478	Explaining the differences of gait patterns between high and low-mileage runners with machine learning.. 2022 , 12, 2981	5
477	An internet traffic classification method based on echo state network and improved salp swarm algorithm.. 2022 , 8, e860	
476	Workpiece image-based tool wear classification in blanking processes using deep convolutional neural networks. 1	1
475	DeepWindows: Windows Instance Segmentation through an Improved Mask R-CNN Using Spatial Attention and Relation Modules. 2022 , 11, 162	2
474	Investigation of Eye-Tracking Scan Path as a Biomarker for Autism Screening Using Machine Learning Algorithms.. 2022 , 12,	3
473	BG-3DM2F: Bidirectional gated 3D multi-scale feature fusion for Alzheimer's disease diagnosis. 2022 , 81, 10743-10776	1
472	A Review of Deep Learning Algorithms and Their Applications in Healthcare. 2022 , 15, 71	2
471	Optimized SVM using AdaBoost and PSO to Classify Brain Images of MR. 2022 ,	
470	Development of non-invasive blood glucose regression based on near-infrared spectroscopy combined with a deep-learning method. 2022 , 55, 215401	0
469	Robust, Generalizable, and Interpretable Artificial Intelligence-Derived Brain Fingerprints of Autism and Social Communication Symptom Severity.. 2022 ,	0
468	Efficient channel expansion and pyramid depthwise-pointwise-depthwise neural networks. 1	0
467	Feature Reduction for Molecular Similarity Searching Based on Autoencoder Deep Learning.. 2022 , 12,	0
466	Prediction on enhanced electrochemical discharge machining behaviors of zirconia-silicon nitride using hybrid DNN based spotted hyena optimization.	
465	An Image-Based Approach to Detecting Structural Similarity Among Mixed Integer Programs.	
464	Fast recognition system for Tree images based on dual-task Gabor convolutional neural network. 1	
463	Structural phase transition of monochalcogenides investigated with machine learning. 2022 , 105,	0
462	mSickle: sickle cell identification through gradient evaluation and smartphone microscopy. 1	0

461	Sentiment Classification Method Based on Blending of Emoticons and Short Texts.. 2022 , 24,	2
460	A deep learning analysis for the effect of individual player performances on match results. 1	
459	Direct Discriminative Decoder Models for Analysis of High-Dimensional Dynamical Neural Data.. 2022 , 1-36	0
458	A Friend-or-Foe framework for multi-agent reinforcement learning policy generation in mixing cooperative-competitive scenarios. 014233122210777	
457	Relative Entropy of Correct Proximal Policy Optimization Algorithms with Modified Penalty Factor in Complex Environment.. 2022 , 24,	1
456	Binary differential evolution with self learning and deep neural network for breast cancer classification.	
455	Integrating neural networks in least-squares inversion of airborne time-domain electromagnetic data. 1-54	0
454	Automated Feature Extraction on AsMap for Emotion Classification Using EEG.. 2022 , 22,	2
453	Machine learning for technical skill assessment in surgery: a systematic review.. 2022 , 5, 24	4
452	Intelligent routing using convolutional neural network in software-defined data center network. 1	1
451	Boyut İdirgeme Teknikleri ve LSTM Derin Deneme Algoritması ile BIST100 Endeksi Fiyat Tahmini.	
450	Bandpass Filter Design Using Deep Neural Network and Differential Evolution Algorithm. 1	
449	A review of machine learning approaches for drug synergy prediction in cancer.. 2022 ,	1
448	Multiclass Skin Lesion Classification Using a Novel Lightweight Deep Learning Framework for Smart Healthcare. 2022 , 12, 2677	3
447	Deep Neural Networks provide expert level prediction accuracy in classification of fetal state from Cardiotocography records (Preprint).	
446	A Hybrid Model for Driver Emotion Detection Using Feature Fusion Approach.. 2022 , 19,	1
445	Deep learning: as the new frontier in high-throughput plant phenotyping. 2022 , 218,	4
444	Asynchronous HDynamic Output Feedback Control for Markovian Jump Neural Networks with Time-varying Delays. 2022 , 20, 909-923	0

443	Nonlinear Network Speech Recognition Structure in a Deep Learning Algorithm.. 2022 , 2022, 6785642	1
442	Deep Learning for Caries Detection: A Systematic Review: DL for Caries Detection.. 2022 , 104115	2
441	Research on classification method of abnormal vibration of pipeline based on SVM. 2022 ,	
440	Human action interpretation using convolutional neural network: a survey. 2022 , 33, 1	0
439	Micro Components Detection Using Deep Learning. 545-549	
438	Recent Advances of Monocular 2D and 3D Human Pose Estimation: A Deep Learning Perspective.	6
437	Ball bearing multiple failure diagnosis using feature-selected autoencoder model. 1	1
436	An intelligent fruits classification in precision agriculture using bilinear pooling convolutional neural networks. 1	0
435	A Computer Vision Approach for Estimating Lifting Load Contributors to Injury Risk. 2022 , 52, 207-219	1
434	Attention-Based RU-BiLSTM Sentiment Analysis Model for Roman Urdu. 2022 , 12, 3641	2
433	Fourier transform-based data augmentation in deep learning for diabetic foot thermograph classification. 2022 , 42, 437-452	2
432	Continuous-Time Prediction of Industrial Paste Thickener System With Differential ODE-Net. 2022 , 9, 686-698	3
431	L2-L3 state estimation for continuous stochastic delayed neural networks via memory event-triggering strategy. 1-16	5
430	A deep learning model for Ottoman OCR.	
429	Deep Neural Networks Predict the Need for CT in Pediatric Mild Traumatic Brain Injury: A Corroboration of the PECARN Rule.. 2022 ,	
428	Taming energy and electronic waste generation in bitcoin mining: Insights from Facebook prophet and deep neural network. 2022 , 178, 121584	0
427	Ensemble transfer learning-based multimodal sentiment analysis using weighted convolutional neural networks. 2022 , 59, 102929	2
426	Global spatiotemporal estimation of daily high-resolution surface carbon monoxide concentrations using Deep Forest. 2022 , 350, 131500	0

425	ABL-TC: A lightweight design for network traffic classification empowered by deep learning. <i>Neurocomputing</i> , 2022 , 489, 333-344	5-4	3
424	Non-destructive Leaf Area Index estimation via guided optical imaging for large scale greenhouse environments. 2022 , 197, 106911		0
423	Liver, kidney and spleen segmentation from CT scans and MRI with deep learning: A survey. <i>Neurocomputing</i> , 2022 , 490, 30-53	5-4	5
422	Chameleon: Optimized feature selection using particle swarm optimization and ensemble methods for network anomaly detection. 2022 , 117, 102684		1
421	A survey on dendritic neuron model: Mechanisms, algorithms and practical applications. <i>Neurocomputing</i> , 2022 , 489, 390-406	5-4	3
420	Alternate periodic event-triggered control for synchronization of multilayer neural networks. 2022 , 596, 169-184		1
419	FCMNet: Frequency-aware cross-modality attention networks for RGB-D salient object detection. <i>Neurocomputing</i> , 2022 , 491, 414-425	5-4	3
418	Deep learning-assisted wavefront correction with sparse data for holographic tomography. 2022 , 154, 107010		0
417	Animal species detection and classification framework based on modified multi-scale attention mechanism and feature pyramid network. 2022 , 16, e01151		0
416	Machine Learning Models for Predicting Influential Factors of Early Outcomes in Acute Ischemic Stroke: Registry-Based Study (Preprint).		
415	E-Quarantine: Remote Real Time Monitoring of COVID-19 Patients. 2021 ,		
414	Optimized Deep Neuro Fuzzy Network based Automatic Approach for Segmentation and Food Recognition. 2021 ,		
413	Simulating Realistic MRI variations to Improve Deep Learning model and visual explanations using GradCAM. 2021 ,		
412	Chemical Reaction Optimization (CRO) of Deep Neural Network (DNN) Model for Characterization of Algae Drying Kinetics. 2021 ,		
411	PReDIHERO [Privacy-Preserving Remote Deep Learning Inference based on Homomorphic Encryption and Reversible Obfuscation for Enhanced Client-side Overhead in Pervasive Health Monitoring. 2021 ,		1
410	Stochastic Schemata Exploiter-Based AutoML. 2021 ,		
409	Federated Deep Learning for Heterogeneous Edge Computing. 2021 ,		4
408	SpeeChin. 2021 , 5, 1-23		12

407	Deep convolutional autoencoders as generic feature extractors in seismological applications. 2021 , 2, 96-106		0
406	Deep Learning Approaches to Remaining Useful Life Prediction: A Survey. 2021 ,		1
405	Vision-based neural formation tracking control of multiple autonomous vehicles with visibility and performance constraints. <i>Neurocomputing</i> , 2021 ,	5-4	0
404	Early Prediction of DNN Activation Using Hierarchical Computations. 2021 , 9, 3130		
403	Tackling cyber-aggression: Identification and fine-grained categorization of aggressive texts on social media using weighted ensemble of transformers. <i>Neurocomputing</i> , 2021 ,	5-4	1
402	ODLIE: On-Demand Deep Learning Framework for Edge Intelligence in Industrial Internet of Things. 2021 ,		0
401	Red Tide Detection Method for HYD Coastal Zone Imager Based on U-Net Convolutional Neural Network. 2022 , 14, 88		1
400	Application of the Deep Learning Algorithm to Identify the Spatial Distribution of Heavy Metals at Contaminated Sites. 2022 , 2, 158-168		0
399	A Training-free Genetic Neural Architecture Search. 2021 ,		0
398	Communication-Efficient Split Learning Based on Analog Communication and Over the Air Aggregation. 2021 ,		3
397	Structural Health Monitoring in Composite Structures: A Comprehensive Review.. 2021 , 22,		12
396	Analysis of Gene Expression Cancer Data Set: Classification of TCGA Pan-cancer HiSeq Data. 2021 ,		
395	Evaluation of Transfer Learning based Deep Learning architectures for Waste Classification. 2021 ,		0
394	Scalable Data Management on Hybrid Memory System for Deep Neural Network Applications. 2021 ,		
393	Deep Learning Framework Fuzzing Based on Model Mutation. 2021 ,		0
392	A Multi-Scale Framework with Unsupervised Learning for Remote Sensing Image Registration. 2022 , 1-1		10
391	Deep Neural Networks provide expert level prediction accuracy in classification of fetal state from Cardiotocography records (Preprint).		
390	FreMix: Frequency-Based Mixup for Data Augmentation. 2022 , 2022, 1-8		

389	A Novel Encoder-Decoder Model for Multivariate Time Series Forecasting.. 2022 , 2022, 5596676	1
388	Rock Classification in a Vanadiferous Titanomagnetite Deposit Based on Supervised Machine Learning. 2022 , 12, 461	0
387	A rough set theory and deep learning-based predictive system for gender recognition using audio speech.	0
386	Multimedia services placement algorithm for cloud-fog hierarchical environments. 2022 ,	0
385	New Insights for the Design of Bionic Robots: Adaptive Motion Adjustment Strategies During Feline Landings.. 2022 , 9, 836043	0
384	Developing a Deep Neural Network with Fuzzy Wavelets and Integrating an Inline PSO to Predict Energy Consumption Patterns in Urban Buildings. 2022 , 10, 1270	3
383	Uncharted Aspects of Human Intelligence in Knowledge-Based Intelligent Systems. 2022 , 7, 46	1
382	Table_1.docx. 2020 ,	
381	Image_1.JPEG. 2020 ,	
380	Image_2.JPEG. 2020 ,	
379	Image_3.JPEG. 2020 ,	
378	Image_4.JPEG. 2020 ,	
377	Image_5.JPEG. 2020 ,	
376	Image_6.JPEG. 2020 ,	
375	Image_7.JPEG. 2020 ,	
374	Image_8.JPEG. 2020 ,	
373	Image_9.JPEG. 2020 ,	
372	Towards Better Generalization for Neural Network-Based SAT Solvers. 2022 , 199-210	2

- 371 Discrimination Method of Biomass Slagging Tendency Based on Particle Swarm Optimization Deep Neural Network (Dnn).
- 370 A Convolutional Neural Networks-Based Approach for Potato Disease Classification. **2022**, 29-40 1
- 369 Hierarchical Prototype Refinement with Progressive Inter-categorical Discrimination Maximization for Few-shot Learning.. **2022**, PP,
- 368 Novel Hybrid Boosted Ensemble Learning Framework for Brain Tumor Prediction. **2022**,
- 367 Sim2real: Issues in transferring autonomous driving model from simulation to real world. **2022**, 1
- 366 Robust System Instance Clustering for Large-Scale Web Services. **2022**, 0
- 365 Multi-Neuron Functional Link Artificial Neural Network: A Novel Architecture and its Performance for Wind Energy Prediction. **2022**, 0
- 364 A method of jamming recognition based on multi-domain joint convolutional neural network. **2022**,
- 363 Chirality in Light-Matter Interaction.. **2022**, e2107325 4
- 362 Advanced ML-Based Ensemble and Deep Learning Models for Short-Term Load Forecasting: Comparative Analysis Using Feature Engineering. **2022**, 12, 4882 2
- 361 Investigating the Geometric Structure of Neural Activation Spaces with Convex Hull Approximations. *Neurocomputing*, **2022**, 5-4
- 360 Classifying papers into subfields using Abstracts, Titles, Keywords and KeyWords Plus through pattern detection and optimization procedures: An application in Physics. 0
- 359 Spatial-temporal attention-based convolutional network with text and numerical information for stock price prediction. 1
- 358 Spatial-Context-Aware Deep Neural Network for Multi-Class Image Classification. **2022**,
- 357 Sustainable Entrepreneurship in Rural E-Commerce: Identifying Entrepreneurs in Practitioners by Using Deep Neural Networks Approach. **2022**, 10, 1
- 356 Testing Feedforward Neural Networks Training Programs. 1
- 355 LioNets: a neural-specific local interpretation technique exploiting penultimate layer information.
- 354 A comprehensive empirical review of modern voice activity detection approaches for movies and TV shows. *Neurocomputing*, **2022**, 494, 116-131 5-4 0

- 353 Coalitional Bayesian autoencoders: Towards explainable unsupervised deep learning with applications to condition monitoring under covariate shift. **2022**, 123, 108912 ○
- 352 Optimization and sensitivity analysis of existing deep learning models for pavement surface monitoring using low-quality images. **2022**, 140, 104332
- 351 A BNN Accelerator Based on Edge-skip-calculation Strategy and Consolidation Compressed Tree. **2022**, 15, 1-20
- 350 Efficient 3D human pose estimation from RGBD sensors. **2022**, 74, 102225 ○
- 349 Comparison of Machine Learning Methods Applied on Multi-Source Medium-Resolution Satellite Images for Chinese Pine (*Pinus tabulaeformis*) Extraction on Google Earth Engine. **2022**, 13, 677 3
- 348 A physics-informed neural network-based surrogate framework to predict moisture concentration and shrinkage of a plant cell during drying. **2022**, 111137 ○
- 347 Deep Learning Approach for Short-Term Forecasting Trend Movement of Stock Indexes. **2021**,
- 346 Machine learning approaches for financial time series forecasting. ○
- 345 Distributed adaptive fixed-time neural networks control for nonaffine nonlinear multiagent systems.. **2022**, 12, 8459 ○
- 344 PVD-FL: A Privacy-Preserving and Verifiable Decentralized Federated Learning Framework. **2022**, 1-1 1
- 343 Leak Identification Based on CS-ResNet under different leakage Apertures for Water-Supply Pipeline. **2022**, 1-1 1
- 342 Use of Deep Learning in Biomedical Imaging. **2022**, 3-33 ○
- 341 Evaluation of Deep Learning Framework for Detection and Diagnosis of Glaucoma. **2022**,
- 340 Evolving deep convolutional neural networks by IP-based marine predator algorithm for COVID-19 diagnosis using chest CT scans. ○
- 339 Dermoscopic Image Classification Using Deep Belief Learning Network Architecture. **2022**, 2022, 1-13 1
- 338 Sequence to Sequence Learning for Joint Extraction of Entities and Relations. *Neurocomputing*, **2022**, 5-4 ○
- 337 Image Compression of Brain MRI images using an Autoencoder and Restricted Boltzmann Machine. **2022**, 100084
- 336 Asynchronous \mathbb{H}_∞ Filtering for Singular Markov Jump Neural Networks with Mode-Dependent Time-Varying Delays. ○

335	Automated Detection of Alzheimer's Disease and Mild Cognitive Impairment Using Whole Brain MRI. 2022 , 1-1	1
334	DNN-assisted Particle-based Bayesian Joint Synchronization and Localization. 2022 , 1-1	1
333	Genome-Wide Association Study Statistical Models: A Review. 2022 , 43-62	0
332	Integrity of Visual Navigation Developments, Challenges, and Prospects. 2022 , 69, navi.518	0
331	Deep learning architectures for Parkinson's disease detection by using multi-modal features. 2022 , 105610	0
330	Secure MRI Brain Image Transmission Using IOT Devices Based on Hybrid Autoencoder and Restricted Boltzmann Approach. 2022 , 2022, 1-11	0
329	An Evaluation of 3D-Printed Materials Structural Properties Using Active Infrared Thermography and Deep Neural Networks Trained on the Numerical Data. 2022 , 15, 3727	0
328	Predicting on-site solar energy generation using off-site weather stations and deep neural networks.	
327	Hybrid deep learning approach for multi-step-ahead prediction for daily maximum temperature and heatwaves.	2
326	A Backpropagation Learning Algorithm with Graph Regularization for Feedforward Neural Networks. 2022 ,	1
325	Adaptive framework towards radar-based diversity gesture recognition with range-Doppler signatures.	
324	Automatic Classification of Melanoma Skin Cancer with Deep Convolutional Neural Networks. 2022 , 3, 512-525	2
323	Discriminative Feature Abstraction by Deep L2 Hypersphere Embedding for 3D Mesh CNNs. 2022 ,	
322	Automatic shrimp counting method using local images and lightweight YOLOv4. 2022 , 220, 39-54	0
321	A hybrid approach to forecasting futures prices with simultaneous consideration of optimality in ensemble feature selection and advanced artificial intelligence. 2022 , 181, 121757	0
320	A Pilot Study Investigating STEM Learners Ability to Decipher AI-generated Video.	0
319	Bias-Induced Point Auto-Encoder and Comparative Analysis of Point Encoder-Decoder Combinations. 2022 , 10, 61617-61630	
318	An IoT Authentication Framework for Urban Infrastructure Security Using Blockchain and Deep Learning. 2022 , 284-296	

317	Survey on the Use of Machine Learning for Quality of Transmission Estimation in Optical Transport Networks. 2022 , 1-13	1
316	Computational Prediction of N- and O-Linked Glycosylation Sites for Human and Mouse Proteins. 2022 , 177-186	
315	HEDL-IDS: A Hybrid Ensemble Deep Learning Approach for Cyber Intrusion Detection. 2022 , 116-131	
314	Pattern Recognition in Convolutional Neural Network (CNN). 2022 , 295-302	
313	Spatiotemporal Fusion Network for Land Surface Temperature Based on a Conditional Variational Autoencoder. 2022 , 1-1	1
312	Multi-Label Classification of Jasmine Rice Germination Using Deep Neural Network. 2022 ,	1
311	All-in-one, bio-inspired, and low-power crypto engines for near-sensor security based on two-dimensional memtransistors. 2022 , 13,	4
310	Daily life human activities recognition using a novel AR-DenseNet.	
309	Optimal Inventory Policy in Oil Transportation: A Case Study. 2022 ,	1
308	Localization and reduction of redundancy in CNN using L1-sparsity induction.	0
307	A systematic mapping study of source code representation for deep learning in software engineering.	2
306	Simulating Software Support Delays in a 24/7 Environment Using Discrete Event Simulation. 2022 ,	
305	Attack and Defense on Aircraft Trajectory Prediction Algorithms. 2022 ,	1
304	IoTracker: A probabilistic event tracking approach for data-intensive IoT smart applications. 2022 , 100556	
303	A CWGAN-GP-based multi-task learning model for consumer credit scoring. 2022 , 206, 117650	0
302	Utilizing Deep Belief Network for Ensuring Privacy-Preserved Access Control of Data. 2022 , 481-497	0
301	Deep Learning Application in Water and Environmental Sciences. 2022 , 273-290	
300	Edge AI Implementation for Recognizing Sounds Created by Human Activities in Smart Offices Design Concepts. 2022 , 608-614	

- 299 Adaptive Resonance Theory-Based Topological Clustering With a Divisive Hierarchical Structure Capable of Continual Learning. **2022**, 10, 68042-68056 0
- 298 Multimodal Attention-Aware Convolutional Neural Networks for Classification of Hyperspectral and LiDAR Data. **2022**, 1-10 1
- 297 Development of Communication System Framework for Emotional Domotics Interactive Space.
- 296 Detect Adversarial Examples by Using Feature Autoencoder. **2022**, 233-242
- 295 Memristor-based Deep Spiking Neural Network with a Computing-In-Memory Architecture. **2022**, 2 2
- 294 Knowledge Generation Using Sentiment Classification Involving Machine Learning on E-Commerce. **2022**, 327-345
- 293 A Modular Deep Denoising Autoencoder for speech enhancement. **2022**,
- 292 ECG-signal Classification Using efficient Machine Learning Approach. **2022**,
- 291 Classification of Electrocardiography Hybrid Convolutional Neural Network-Long Short Term Memory with Fully Connected Layer. **2022**, 2022, 1-10
- 290 Fault analysis of photovoltaic based DC microgrid using deep learning randomized neural network. **2022**, 109314 0
- 289 MGM-4-FL: Combining federated learning and model gossiping in WSNs. **2022**, 109144
- 288 Signals Recognition by CNN Based on Attention Mechanism. **2022**, 11, 2100 0
- 287 An Improved VGG Model for Skin Cancer Detection. 1
- 286 cACP-DeepGram: Classification of anticancer peptides via deep neural network and skip-gram-based word embedding model. **2022**, 131, 102349 2
- 285 A survey of moving object detection methods: A practical perspective. *Neurocomputing*, **2022**, 503, 28-48.4 1
- 284 A survey of deep learning techniques based Parkinson's disease recognition methods employing clinical data. **2022**, 208, 118045 1
- 283 Exploring the Brain-like Properties of Deep Neural Networks: A Neural Encoding Perspective. 0
- 282 A benchmarking of deep neural network models for cancer subtyping using single point mutations.

281	Shedding light on the reverse logistics decision-making: a social-media analytics study of the electronics industry in developing vs developed countries. 2022 , 15, 163-178	0
280	Accent Recognition Using a Spectrogram Image Feature-Based Convolutional Neural Network.	0
279	Deep learning in multimodal remote sensing data fusion: A comprehensive review. 2022 , 112, 102926	4
278	AN INVESTIGATION INTO THE PERFORMANCE OF THE MULTILAYER PERCEPTRON ARCHITECTURE OF DEEP LEARNING IN FORECASTING STOCK PRICES. 2021 , 3, 61-68	
277	Determination of the Lactose Content in Low-Lactose Milk by Spectroscopy FTIR and Convolutional Neural Network.	
276	Efficient and secure pedestrian detection in intelligent vehicles based on federated learning. 2022 ,	0
275	Sound Based DC Motor Classification by a Convolution Neural Network. 2022 ,	
274	Analysis of illegal behavior in power station based on video surveillance. 2022 ,	
273	Centrality-aware gossiping for distributed learning in wireless sensor networks. 2022 ,	
272	Debugging Support for Machine Learning Applications in Bioengineering Text Corpora. 2022 ,	0
271	Constellation Shaping for Phase Noise Channels with Deep Learning Approach. 2022 ,	
270	The Classification of Multiple Interacting Gait Abnormalities Using Insole Sensors and Machine Learning. 2022 ,	1
269	A simple topological model for two coupled neurons. 2022 , 32, 073124	1
268	Winograd convolution. 2022 ,	0
267	Deep learning for location prediction on noisy trajectories.	0
266	Deep learning in land-use classification and geostatistics in soil pH mapping: a case study at Lakehead University Agricultural Research Station, Thunder Bay, Ontario, Canada. 2022 , 16,	
265	Convolutional Neural Network Identification of Stall Flow Patterns in Pump Turbine Runners. 2022 , 15, 5719	1
264	A comparison of deep neural network models for cluster cancer patients through somatic point mutations.	2

- 263 Deep learning for visual recognition and detection of aquatic animals: A review. 0
- 262 Improving Large-Scale k-Nearest Neighbor Text Categorization with Label Autoencoders. **2022**, 10, 2867
- 261 Multi-heterogeneous sensor data fusion method via convolutional neural network for fault diagnosis of wheeled mobile robot. **2022**, 109554
- 260 A MobileNetV2-SENet-based method for identifying fish school feeding behavior. **2022**, 102288 0
- 259 Complete Blood Cell Detection and Counting Based on Deep Neural Networks. **2022**, 12, 8140 1
- 258 COVID-19 diagnosis using chest CT scans and deep convolutional neural networks evolved by IP-based sine-cosine algorithm.
- 257 Neural network based harmonic elimination in single-phase inverters.
- 256 Development of Novel Residual-Dense-Attention (RDA) U-Net Network Architecture for Hepatocellular Carcinoma Segmentation. **2022**, 12, 1916 2
- 255 Deep attributed network representation learning via attribute enhanced neighborhood. **2022**, 508, 170-181 0
- 254 A wavelet-based deep learning pipeline for efficient COVID-19 diagnosis via CT slices. **2022**, 128, 109401 3
- 253 Exploiting BIM Objects for Synthetic Data Generation toward Indoor Point Cloud Classification Using Deep Learning. **2022**, 36,
- 252 Computational prediction of Lee retention indices of polycyclic aromatic hydrocarbons by using machine learning. 0
- 251 Personalized Therapy Using Deep Learning Advances. **2022**, 171-197 0
- 250 Breast cancer detection using deep learning: Datasets, methods, and challenges ahead. **2022**, 149, 106073 5
- 249 From machine learning to deep learning: A comprehensive study of alcohol and drug use disorder. **2022**, 2, 100104 0
- 248 Large-scale deep learning based binary and semantic change detection in ultra high resolution remote sensing imagery: From benchmark datasets to urban application. **2022**, 193, 164-186 2
- 247 Discrimination method of biomass slagging tendency based on particle swarm optimization deep neural network (DNN). **2023**, 262, 125368 2
- 246 DNN-Based Approach to Mitigate Multipath Errors of Differential GNSS Reference Stations. **2022**, 1-7 0

- 245 Assured Deep Multi-Agent Reinforcement Learning for Safe Robotic Systems. **2022**, 158-180 ○
- 244 Distributed Assignment with Load Balancing for DNN Inference at the Edge. **2022**, 1-1 ○
- 243 Epileptic Seizure Classification using Battle Royale Search and Rescue optimization based Deep LSTM. **2022**, 1-12 ○
- 242 Comparison of PV Power Generation Forecasting in a Residential Building using ANN and DNN. **2022**, 55, 291-296 ○
- 241 Monthly Runoff Prediction by Hybrid CNN-LSTM Model: A Case Study. **2022**, 381-392 ○
- 240 Developing Novel Activation Functions Based Deep Learning LSTM for Classification. **2022**, 10, 97259-97275 ○
- 239 Knowledge Sharing in AI Services: A Market-based Approach. **2022**, 1-1 ○
- 238 Deep Learning Based Simple CNN Weld Defects Classification Using Optimization Technique. **2022**, 58, 499-509 ○
- 237 Feature Pyramid Vision Transformer for MedMNIST Classification Decathlon. **2022**, ○
- 236 Deep neural networks with L1 and L2 regularization for high dimensional corporate credit risk prediction. **2023**, 213, 118873 ○
- 235 Digital Recognition of Breast Cancer Using TakhisisNet. **2022**, 216-235 ○
- 234 A One-Shot Reparameterization Method for Reducing the Loss of Tile Pruning on DNNs. **2022**, ○
- 233 An evolutionary search algorithm for efficient ResNet-based architectures: a case study on gender recognition. **2022**, ○
- 232 Neural Network Model Reconstructed from Entangled Quantum States. **2022**, ○
- 231 Predicting Emergency Department Utilization among Older Hong Kong Population in Hot Season: A Machine Learning Approach. **2022**, 13, 410 ○
- 230 Robust Rule Based Neural Network Using Arithmetic Fuzzy Inference System. **2023**, 17-36 ○
- 229 Arabic Dataset for Farmers' Intent Identification Toward Developing a Chatbot. **2022**, 14, 43-52 ○
- 228 Interactive annotation of geometric ornamentation on painted pottery assisted by deep learning. **2022**, ○

227	Machine and Deep Learning for IoT Security and Privacy: Applications, Challenges, and Future Directions. 2022 , 2022, 1-41	0
226	Deep Learning based DFWF Model for Audio Spoofing Attack Detection. 2022 , 4, 179-187	0
225	Generalized attention-based deep multi-instance learning.	0
224	Is Tiny Deep Learning the New Deep Learning?. 2023 , 23-39	0
223	IoT-Based Prediction of Chronic Kidney Disease Using Python and R Based on Machine and Deep Learning Algorithms. 2023 , 59-69	0
222	Long Short-Term Memory (LSTM) based real-time monitoring of potato slice drying using image chromatic features.	0
221	Machine Learning Algorithms for understanding the determinants of under-five Mortality. 2022 , 15,	1
220	Deep learning models for disease-associated circRNA prediction: a review.	1
219	Demodulation of FabryPerot sensors using random speckles. 2022 , 47, 4806	3
218	A Local Quadratic Embedding Learning Algorithm and Applications for Soft Sensing. 2022 ,	0
217	Neuromorphic device based on silicon nanosheets. 2022 , 13,	1
216	CDC_Net: multi-classification convolutional neural network model for detection of COVID-19, pneumothorax, pneumonia, lung Cancer, and tuberculosis using chest X-rays.	1
215	Applications of deep learning into supply chain management: a systematic literature review and a framework for future research.	0
214	Predicting Conserved Water Molecules in Binding Sites of Proteins Using Machine Learning Methods and Combining Features. 2022 , 2022, 1-11	0
213	CNN-Based Optical Character Recognition for Isolated Printed Gujarati Characters and Handwritten Numerals. 2022 , 7, 643-655	0
212	A Deep Neural Network and Bayesian Method based Framework for All-Terminal Network Reliability Estimation Considering Degradation. 2022 , 108881	2
211	Grape Leaf Disease Classification Combined with U-Net++ Network and Threshold Segmentation. 2022 , 2022, 1-11	0
210	Deep learned vectorsInformation using auto-correlation, scaling, and derivations with CNN for complex and huge image retrieval.	1

209	Application of Production-Oriented Approach and Deep Learning Model in English Translation Teaching Model. 2022 , 2022, 1-12	0
208	pth Moment Synchronization of Stochastic Impulsive Neural Networks with Time-varying Coefficients and Unbounded Delays. 2022 ,	0
207	An improved deep learning approach based on exponential moving average algorithm for atrial fibrillation signals identification. 2022 , 513, 127-136	0
206	China's Inter-provincial Green Economy Efficiency and Forecast Based on SBM-DES and Deep Neural Network. 2022 , 1222-1230	0
205	Burn After Reading: Online Adaptation for Cross-domain Streaming Data. 2022 , 404-422	0
204	Optimized Active Power Dispatching of Wind Farms Considering Data-driven Fatigue Load Suppression. 2022 , 1-10	0
203	Deep Learning-driven Proactive Maintenance Management of IoT-empowered Smart Toilet. 2022 , 1-1	0
202	Deep sparse representation via deep dictionary learning for reinforcement learning. 2022 ,	0
201	Medical Image Analysis With Intelligent Techniques. 2022 , 51-69	0
200	History Dependent Significance Coding for Incremental Neural Network Compression. 2022 ,	0
199	Siamese Convolutional Neural Networks to Quantify Crack Pattern Similarity in Masonry Facades. 1-23	1
198	Apparent age prediction from faces: A survey of modern approaches. 5,	0
197	Roman Urdu Sentiment Analysis Using Transfer Learning. 2022 , 12, 10344	2
196	Forecasting Crop Residue Fires in Northeastern China Using Machine Learning. 2022 , 13, 1616	0
195	A practical Alzheimer's disease classifier via brain imaging-based deep learning on 85,721 samples. 2022 , 9,	1
194	Applications of machine learning techniques for enhancing nondestructive food quality and safety detection. 1-21	2
193	Intelligent intrusion detection based on fuzzy Big Data classification.	0
192	An automatic knowledge graph construction approach to promoting collaborative knowledge building, group performance, social interaction and socially shared regulation in CSCL.	0

191	Determination of Pipeline Leaks Based on the Analysis the Hurst Exponent of Acoustic Signals. 2022 , 14, 3190	1
190	Accurate detection and identification of insects from camera trap images with deep learning.	0
189	Bioinspired and Low-Power 2D Machine Vision with Adaptive Machine Learning and Forgetting.	0
188	AlBot: A Novel Botnet Capable of Performing Distributed Artificial Intelligence Computing. 2022 , 11, 3241	0
187	Residual Learning with Feedback for Strong Random Noise Attenuation in Seismic Data. 1-56	0
186	Incipient detection of stator inter-turn short-circuit faults in a Doubly-Fed Induction Generator using deep learning.	0
185	DAG-Based Blockchain Sharding for Secure Federated Learning with Non-IID Data. 2022 , 22, 8263	0
184	Application of Meta-Heuristic Algorithms for Training Neural Networks and Deep Learning Architectures: A Comprehensive Review.	2
183	A new efficient algorithm based on feedforward neural network for solving differential equations of fractional order. 2022 , 106968	0
182	Segment alignment based cross-subject motor imagery classification under fading data. 2022 , 106267	0
181	A Survey on ensemble learning under the era of deep learning.	0
180	Fuzzified deep neural network ensemble approach for estimating cycle time range. 2022 , 130, 109697	0
179	Fire safety assessment models based on machine learning methods for the coal industry. 2022 , 231, 104693	0
178	Influences of the thermal environment on pedestrians thermal perception and travel behavior in hot weather. 2022 , 226, 109687	0
177	A survey of recent advances on stability analysis, state estimation and synchronization control for neural networks. 2023 , 515, 26-36	0
176	Garbage in, Garbage out: A Theory-Driven Approach to Improve Data Handling in Supervised Machine Learning. 2023 , 101-132	0
175	Auto-MyIn: Automatic diagnosis of myocardial infarction via multiple GLCMs, CNNs, and SVMs. 2023 , 80, 104273	2
174	PAST-AI: Physical-layer Authentication of Satellite Transmitters via Deep Learning. 2022 , 1-1	1

- 173 Fault Diagnosis of Energy Networks: A Graph Embedding Learning Approach. **2022**, 71, 1-11 ○
- 172 Adaptive Controller Area Network Intrusion Detection System Considering Temperature Variations. **2022**, 1-1 ○
- 171 Aquarius sea surface salinity retrieval in coastal regions based on deep neural networks. **2023**, 284, 113357 ○
- 170 Nanoscale Design of Multi-Layer Perceptrons using Floating-Point Arithmetic Units. **2022**, 1 ○
- 169 LSTM-CNN for Behavioral Modeling and Predistortion of 5G Power Amplifiers. **2022**, ○
- 168 Preserve Knowledge with Auxiliary Feature Extractor for Class Incremental Learning. **2022**, ○
- 167 Unveiling Practices of Customer Service Content Curators of Conversational Agents. **2022**, 6, 1-33 ○
- 166 Deep Learning-Based Predictive Control of Injection Velocity in Injection Molding Machines. **2022**, 2022, 1-14 ○
- 165 Evaluation of fracture toughness properties of polymer concrete composite using deep learning approach. ○
- 164 EvoPruneDeepTL: An evolutionary pruning model for transfer learning based deep neural networks. **2022**, ○
- 163 A review on deep learning based condition monitoring and fault diagnosis of rotating machinery. 095745652211396 ○
- 162 Measurement method of aero-engine rotor concentricity and perpendicularity based on deep belief neural network. **2022**, 93, 115108 ○
- 161 LSTM Derin Deneme Yaklaşımı ile Hava Kalitesi Verilerinin Tahmini: Sakarya Üneli **2022**, 5, 477-484 ○
- 160 Deep Learning in Ischemic Stroke Imaging Analysis: A Comprehensive Review. **2022**, 2022, 1-15 ○
- 159 High-throughput Label-free Cell Counting with Deep Neural Networks. **2023**, 191-208 ○
- 158 Recognizing intertwined patterns using a network of spiking pattern recognition platforms. **2022**, 12, ○
- 157 Optimizing the performance of the neural network by using a mini dataset processing method. ○
- 156 Intelligent Deep Machine Learning Cyber Phishing URL Detection Based on BERT Features Extraction. **2022**, 11, 3647 ○

- 155 A material-independent deep learning model to predict the tensile strength of polymer concrete. **2022**, 36, 101400 ○
- 154 Classification of Ground-Based Cloud Images by Contrastive Self-Supervised Learning. **2022**, 14, 5821 ○
- 153 A deep learning approach for solving linear programming problems. **2022**, ○
- 152 Blind image quality assessment for anchor-assisted adaptation to practical situations. ○
- 151 Machine Learning Techniques. **2022**, 147-164 ○
- 150 False data injection attacks detection with modified temporal multi-graph convolutional network in smart grids. **2023**, 124, 103016 ○
- 149 Bankruptcy prediction using fuzzy convolutional neural networks. **2023**, 64, 101844 1
- 148 Applying neural networks-based modelling to the prediction of mineralization: A case-study using the Western Australian Geochemistry (WACHEM) database. **2023**, 152, 105242 ○
- 147 A novel approach to estimating urban land surface temperature by the combination of geographically weighted regression and deep neural network models. **2023**, 47, 101390 ○
- 146 Transfer reinforcement learning method with multi-label learning for compound fault recognition. **2023**, 55, 101818 ○
- 145 Evaluating the applicability of neural network to determine the extractable temperature from a shallow reservoir of Puga geothermal field. **2023**, 17, 100259 ○
- 144 ENSO analysis and prediction using deep learning: A review. **2023**, 520, 216-229 ○
- 143 TJU-DNN: A trajectory-unified framework for training deep neural networks and its applications. **2023**, 520, 103-114 ○
- 142 Detecting structural anomalies of quadcopter UAVs based on LSTM autoencoder. **2022**, 88, 101736 ○
- 141 TPFL: Test Input Prioritization for Deep Neural Networks Based on Fault Localization. **2022**, 368-383 ○
- 140 A Novel Deep Offline-to-Online Transfer Learning Framework for Pipeline Leakage Detection with Small Samples. **2022**, 1-1 ○
- 139 LegoNet: Memory Footprint Reduction Through Block Weight Clustering. **2022**, ○
- 138 Digital Recognition of Breast Cancer Using TakhisisNet. **2022**, 1286-1304 ○

137	Seismic Activity-based Human Intrusion Detection using Deep Neural Networks. 2022,	0
136	Securing 6G-enabled IoT/IoV networks by machine learning and data fusion. 2022, 2022,	0
135	Smart and Sentient Retail High Streets. 2022, 5, 1670-1720	0
134	Malaria Blood Smears Object Detection Based on Convolutional DCGAN and CNN Deep Learning Architectures. 2023, 197-212	0
133	UFace: An Unsupervised Deep Learning Face Verification System. 2022, 11, 3909	0
132	Decoding the cognitive states of attention and distraction in a real-life setting using EEG. 2022, 12,	0
131	KRS-Net: A Classification Approach Based on Deep Learning for Koi with High Similarity. 2022, 11, 1727	0
130	Smart Modelling of a Sustainable Biological Wastewater Treatment Technologies: A Critical Review. 2022, 14, 15353	2
129	Performance Analysis of Hyperparameters of Convolutional Neural Networks for COVID-19 X-ray Image Classification. 2023, 225-230	0
128	A framework for robotic arm pose estimation and movement prediction based on deep and extreme learning models.	0
127	High-precision automatic detection method of illegal construction object images in complex scenes. 2022, 32,	0
126	Machine Learning as a Model for Cultural Learning: Teaching an Algorithm What it Means to be Fat. 2022, 51, 1484-1539	0
125	Physics-informed machine learning for surrogate modeling of wind pressure and optimization of pressure sensor placement.	0
124	Research Progress and Improvement Ideas of Anti-Epidemic Resilience in China's Urban Communities. 2022, 19, 15293	2
123	Automated Design of the Deep Neural Network Pipeline. 2022, 12, 12215	0
122	Tackling the over-smoothing problem of CNN-based hyperspectral image classification. 2022, 16,	0
121	A Review of Uncertainty Modelling Techniques for Probabilistic Stability Analysis of Renewable-Rich Power Systems. 2023, 16, 112	0
120	LWSNet - a novel deep-learning architecture to segregate Covid-19 and pneumonia from x-ray imagery.	1

- 119 GCN recommendation model based on the fusion of dynamic multiple-view latent interest topics. ○
- 118 Melodic Pattern Recognition and Similarity Modelling: A Systematic Survey in Music Computing. **2022**, 4, 272-290 ○
- 117 An Analysis of Body Language of Patients Using Artificial Intelligence. **2022**, 10, 2504 1
- 116 Fundamental Understanding of Heat and Mass Transfer Processes for Physics-Informed Machine Learning-Based Drying Modelling. **2022**, 15, 9347 ○
- 115 Black-box error diagnosis in Deep Neural Networks for computer vision: a survey of tools. ○
- 114 Boosting tissue-specific prediction of active cis-regulatory regions through deep learning and Bayesian optimization techniques. **2022**, 23, ○
- 113 An approach for identifying historic village using deep learning. **2023**, 5, ○
- 112 An explainable deep-learning approach for job cycle time prediction. **2022**, 100153 ○
- 111 Efficient Deep Feature Based Semantic Image Retrieval. ○
- 110 Automation of surveillance systems using deep learning and facial recognition. ○
- 109 Deep learning based Self-Sustained Personal Network. **2022**, 215, 856-868 ○
- 108 Using Deep Learning Models for Crop and Weed Classification at Early Stage. **2023**, 931-942 ○
- 107 Tool Support for Improving Software Quality in Machine Learning Programs. **2023**, 14, 53 ○
- 106 Mapping soil available copper content in the mine tailings pond with combined simulated annealing deep neural network and UAV hyperspectral images. **2023**, 120962 ○
- 105 FlexibleNet: A New Lightweight Convolutional Neural Network Model for Estimating Carbon Sequestration Qualitatively Using Remote Sensing. **2023**, 15, 272 ○
- 104 Determination of the lactose content in low-lactose milk using Fourier-transform infrared spectroscopy (FTIR) and convolutional neural network. **2023**, 9, e12898 ○
- 103 A Skin Disease Classification Model Based on DenseNet and ConvNeXt Fusion. **2023**, 12, 438 ○
- 102 An immediate analysis of the interaction topic approach to promoting group performance, knowledge convergence, cognitive engagement, and coregulation in online collaborative learning. ○

101	Intrusion Detection Scheme With Dimensionality Reduction in Next Generation Networks. 2023 , 18, 965-979	o
100	RADIC:A tool for diagnosing COVID-19 from chest CT and X-ray scans using deep learning and quad-radiomics. 2023 , 233, 104750	3
99	Obstacle avoidance for environmentally-driven USVs based on deep reinforcement learning in large-scale uncertain environments. 2023 , 270, 113670	o
98	Image Watermarking between Conventional and Learning-Based Techniques: A Literature Review. 2023 , 12, 74	o
97	Video recommendation method based on deep learning of group evaluation behavior sequences.	o
96	Data Assimilation Predictive GAN (DA-PredGAN) Applied to a Spatio-Temporal Compartmental Model in Epidemiology. 2023 , 94,	1
95	An Enhanced LBPH Approach to Ambient-Light-Affected Face Recognition Data in Sensor Network. 2023 , 12, 166	o
94	DL-Shuttle: Badminton Coaching Training Assistance System Using Deep Learning Approach. 2022 ,	o
93	Depth-Adaptive Deep Neural Network Based on Learning Layer Relevance Weights. 2023 , 13, 398	o
92	Study on the Prediction of Rice Noodle Raw Material Index Content by Deep Feature Fusion. 2022 , 288-304	o
91	An effective recognition of moving target seismic anomaly for security region based on deep bidirectional LSTM combined CNN.	o
90	Privacy-preserving data mining and machine learning in healthcare: Applications, challenges, and solutions.	o
89	A Comprehensive Review on Cyber-Attack Detection and Control of Microgrid Systems. 2023 , 1-45	o
88	Comparisons of Convolutional Neural Network and Other Machine Learning Methods in Landslide Susceptibility Assessment: A Case Study in Pingwu. 2023 , 15, 798	o
87	Combining Spiking Neural Networks with Artificial Neural Networks for Enhanced Image Classification. 2023 , E106.D, 252-261	o
86	Estimation of probability distribution of long-term fatigue damage on wind turbine tower using residual neural network. 2023 , 190, 110101	o
85	The applicability of machine learning algorithms in accounts receivables management.	o
84	A difference attention ResNet-LSTM network for epileptic seizure detection using EEG signal. 2023 , 83, 104652	o

- 83 Robust auxiliary learning with weighting function for biased data. **2023**, 628, 307-319 ○
- 82 Evol-AutoNN: Evolutionary Automation of Neural Network. **2022**, ○
- 81 Design and Analysis of Convolutional Neural Layers: A Signal Processing Perspective. **2023**, 11, 27641-27661 ○
- 80 An automated group learning engagement analysis and feedback approach to promoting collaborative knowledge building, group performance, and socially shared regulation in CSCL. ○
- 79 An ensemble face recognition mechanism based on three-way decisions. **2023**, 35, 196-208 ○
- 78 Twisting Theory: A New Artificial Adaptive System for Landslide Prediction. **2023**, 13, 115 ○
- 77 Layer-wise Regularized Adversarial Training using Layers Sustainability Analysis framework. **2023**, ○
- 76 Sonar image garbage detection via global despeckling and dynamic attention graph optimization. **2023**, 529, 152-165 ○
- 75 A path following controller for deep-sea mining vehicles considering slip control and random resistance based on improved deep deterministic policy gradient. **2023**, 278, 114069 ○
- 74 DCNNBiLSTM: An Efficient Hybrid Deep Learning-Based Intrusion Detection System. **2023**, 10, 100053 ○
- 73 Robustness evaluation of the reliability of penstocks combining line sampling and neural networks. **2023**, 234, 109192 ○
- 72 SFA: Searching faster architectures for end-to-end automatic speech recognition models. **2023**, 81, 101500 ○
- 71 Mixed Hand and passive exponential synchronization for singular Markov jump neural networks based on hybrid event trigger scheme. **2023**, 120, 107177 ○
- 70 A review of machine learning techniques for enhanced energy efficient 5G and 6G communications. **2023**, 122, 106032 ○
- 69 Pseudo-label semi-supervised learning for soybean monitoring. **2023**, 4, 100216 ○
- 68 Analyzing the impact of activation functions on the performance of the data-driven gait model. **2023**, 18, 101029 ○
- 67 Sinusoidal model-based diagnosis of the common cold from the speech signal. **2023**, 83, 104653 ○
- 66 Toward Selective Adversarial Attack for Gait Recognition Systems Based on Deep Neural Network. **2023**, E106.D, 262-266 ○

- 65 An Advanced Decision Tree-Based Deep Neural Network in Nonlinear Data Classification. **2023**, 11, 24 ○
- 64 Processing of Sensor Outputs. **2023**, 527-556 ○
- 63 Unsupervised learning-based framework for indirect structural health monitoring using adversarial autoencoder. **2023**, 550, 117598 ○
- 62 A survey on applications of machine learning algorithms in water quality assessment and water supply and management. **2023**, 23, 895-922 ○
- 61 A framework driven by physics-guided machine learning for process-structure-property causal analytics in additive manufacturing. **2023**, 67, 213-228 ○
- 60 Enhancing Context-Aware Recommendation Using Trust-Based Contextual Attentive Autoencoder. 1
- 59 Identification of Rice Varieties Using Machine Learning Algorithms. **2022**, ○
- 58 Energy Consumption Forecasting in Home Energy Management System using Deep Learning Techniques. **2022**, ○
- 57 Colorimetric Detection of Hemoglobin by Aptamer-Based Biosensor. **2023**, 62, 4704-4712 ○
- 56 The Top Ten Artificial Intelligence-Deep Neural Networks for IoT Intrusion Detection System. **2023**, 129, 1451-1470 ○
- 55 Energy-Efficient DNN Partitioning and Offloading for Task Completion Rate Maximization in Multiuser Edge Intelligence. **2023**, 2023, 1-14 ○
- 54 Machine Learning Approach for Prediction of Lateral Confinement Coefficient of CFRP-Wrapped RC Columns. **2023**, 15, 545 1
- 53 A comparative case study between shallow and deep neural networks in induction motor's fault diagnosis. ○
- 52 Deep learning: Applications, architectures, models, tools, and frameworks: A comprehensive survey. ○
- 51 News Sentiment Analysis for Liquidity Risk Reduction. ○
- 50 Environmental optimization of warm mix asphalt (WMA) design with recycled concrete aggregates (RCA) inclusion through artificial intelligence (AI) techniques. **2023**, 17, 100984 ○
- 49 CCTCOVID: COVID-19 detection from chest X-ray images using Compact Convolutional Transformers. 11, ○
- 48 SenseFi: A library and benchmark on deep-learning-empowered WiFi human sensing. **2023**, 4, 100703 ○

- 47 Convolutional Neural Network in Medical Image Analysis: A Review. **2023**, 30, 2793-2810 ○
- 46 Cascade of Deep Neural Network And Support Vector Machine for Credit Risk Prediction. **2022**, ○
- 45 A Systematic Literature Review on Natural Language Processing (NLP). **2022**, ○
- 44 An Accurate and Fast Animal Species Detection System for Embedded Devices. **2023**, 11, 23462-23473 ○
- 43 MR.DRP: A Parameter Adaptive Machine Learning Framework for Drug Response Prediction. **2022**, ○
- 42 Memristor-based neural networks: a bridge from device to artificial intelligence. ○
- 41 A Survey on Deep Learning Enabled Intrusion Detection System for Internet of Things. **2023**, 571-580 ○
- 40 Black-box simulation method: train the optical model from output. **2023**, ○
- 39 Skin Disease Detection Based on Deep Learning. **2023**, 120-127 ○
- 38 Optimizing MRI-based brain tumor classification and detection using AI: A comparative analysis of neural networks, transfer learning, data augmentation, and the cross-transformer network. **2023**, 10, 100484 ○
- 37 Training on the optical system: local search method. **2023**, ○
- 36 A Smart Grid Traffic Anomaly Detector Based on Deep Learning. **2022**, ○
- 35 Web-based Automatic Deep Learning Service Generation System by Ontology Technologies. **2022**, ○
- 34 A Multi-objective Optimization Model for Redundancy Reduction in Convolutional Neural Networks. ○
- 33 CrossTransUnet: A New Computationally Inexpensive Tumor Segmentation Model for Brain MRI. **2023**, 11, 27066-27085 ○
- 32 Introduction to SVM. **2023**, 3-18 ○
- 31 Sustainable Hydrodynamic of Artificial Neural Networks and Logistic Regression Model to Lane Change Serious Conflict at Unsignalized Intersection on Malaysia Federal Route. ○
- 30 Stochastic Computation Based Hybrid Artificial Neural Networks and Spike Neural Network. **2022**, ○

- 29 An advanced deep learning models-based plant disease detection: A review of recent research. 14, 1
- 28 Development of Speech Recognition System for Remote Vocal Music Teaching based on Markov model. 0
- 27 Multilayer extreme learning machine: a systematic review. 0
- 26 Effective Class-Imbalance Learning Based on SMOTE and Convolutional Neural Networks. **2023**, 13, 4006 0
- 25 The Effect of Deep Learning Methods on Deepfake Audio Detection for Digital Investigation. **2023**, 219, 211-219 0
- 24 An Advanced Cloud-Based Plant Health Detection System Based on Deep Learning. **2022**, 0
- 23 A county-level soybean yield prediction framework coupled with XGBoost and multidimensional feature engineering. **2023**, 118, 103269 0
- 22 DHT: Dynamic Vision Transformer Using Hybrid Window Attention for Industrial Defect Images Classification. **2023**, 26, 19-28 0
- 21 From Data to Model: Evolutionary Learning with Generative Neural Systems. **2023**, 729-739 0
- 20 Toward Production Forecasting for Shale Gas Wells Using Transfer Learning. **2023**, 37, 5130-5142 0
- 19 Sustainable Hydrodynamic of Artificial Neural Networks and Logistic Regression Model to Lane Change Serious Conflict at Unsignalized Intersection on Malaysia Federal Route. 0
- 18 The role of explainable Artificial Intelligence in high-stakes decision-making systems: a systematic review. 0
- 17 Applications of artificial intelligence machine learning for detection of stress: a critical overview. 0
- 16 Industrial users load pattern extraction method based on multidimensional electrical consumption feature construction. 11, 0
- 15 Impact of Teaching a Neuro-Computerized Course Through VLE to Develop Computational Thinking Among Mathematics Pre-service Teachers. 073563312311650 0
- 14 Deep learning models for inflation forecasting. 0
- 13 Auto-Encoders in Deep Learning A Review with New Perspectives. **2023**, 11, 1777 0
- 12 A novel hybrid autoencoder and modified particle swarm optimization feature selection for intrusion detection in the internet of things network. 5, 0

- 11 Land Cover Mapping with Convolutional Neural Networks Using Sentinel-2 Images: Case Study of Rome. **2023**, 12, 879 ○
- 10 Remaining useful life prediction method based on gated dilation causal convolution. ○
- 9 Fault Diagnosis of Analog Circuits Based on 1-D Convolutional Neural Network. **2022**, ○
- 8 A Systematic survey on automated text generation tools and techniques: application, evaluation, and challenges. ○
- 7 LCA-GAN: Low-Complexity Attention-Generative Adversarial Network for Age Estimation with Mask-Occluded Facial Images. **2023**, 11, 1926 ○
- 6 Multi-level Uncertainty Aware Learning for Semi-supervised Dental Panoramic Caries Segmentation. **2023**, ○
- 5 Combining global receptive field and spatial spectral information for single-image hyperspectral super-resolution. **2023**, 542, 126277 ○
- 4 Graph Neural Network with Two Uplift Estimators for Label-Scarcity Individual Uplift Modeling. **2023**, ○
- 3 Performance Evaluation of Machine and Deep Transfer Learning Techniques for the Classification of Alzheimer Disease Using MRI Images. **2023**, 314-327 ○
- 2 Classification of Speaking and Singing Voices Using Bioimpedance Measurements and Deep Learning. **2023**, ○
- 1 Designing a Performance-Centric MAC Unit with Pipelined Architecture for DNN Accelerators. ○