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#### Deep learning

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947	Using deep learning to segment breast and fibroglandular tissue in MRI volumes. <b>2017</b> , 44, 533-546	124
946	Improving handwritten Chinese text recognition using neural network language models and convolutional neural network shape models. <b>2017</b> , 65, 251-264	93
945	Metabolic systems biology: a brief primer. <b>2017</b> , 595, 2849-2855	9
944	Learning the Structural Vocabulary of a Network. <b>2017</b> , 29, 287-312	2
943	Unsupervised class labeling of diffuse lung diseases using frequent attribute patterns. <b>2017</b> , 12, 519-528	4
942	An evolutionary scheme for decision tree construction. <b>2017</b> , 119, 166-177	14
941	Deep Learning. <b>2017</b> , 40, 103-107	18
940	An enhancement deep feature fusion method for rotating machinery fault diagnosis. <b>2017</b> , 119, 200-220	174
939	Automatic content understanding with cascaded spatial <b>E</b> emporal deep framework for capsule endoscopy videos. <b>2017</b> , 229, 77-87	18
938	Neural network prediction of severe lower intestinal bleeding and the need for surgical intervention. <b>2017</b> , 212, 42-47	15
937	Automatic placental maturity grading via hybrid learning. <b>2017</b> , 223, 86-102	3

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935	Computational Intelligence in Music Composition: A Survey. <b>2017</b> , 1, 2-15	24
934	A survey of deep neural network architectures and their applications. <b>2017</b> , 234, 11-26	1412
933	Deep Convolutional Neural Networks for Predominant Instrument Recognition in Polyphonic Music. <b>2017</b> , 25, 208-221	75
932	Hidden-layer visible deep stacking network optimized by PSO for motor imagery EEG recognition. <b>2017</b> , 234, 1-10	17
931	Scene classification based on a hierarchical convolutional sparse auto-encoder for high spatial resolution imagery. <b>2017</b> , 38, 514-536	30
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928	An evaluation of Convolutional Neural Networks for music classification using spectrograms. <b>2017</b> , 52, 28-38	110
927	An Ensemble of Fine-Tuned Convolutional Neural Networks for Medical Image Classification. <b>2017</b> , 21, 31-40	237
926	Macromolecular target prediction by self-organizing feature maps. <b>2017</b> , 12, 271-277	22
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923	Mining textural knowledge in biological images: Applications, methods and trends. <b>2017</b> , 15, 56-67	33
922	Machine learning and computer vision approaches for phenotypic profiling. <b>2017</b> , 216, 65-71	88
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920	Totally model-free actor-critic recurrent neural-network reinforcement learning in non-Markovian domains. <b>2017</b> , 258, 107-131	4
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917	Social Media Prediction Based on Residual Learning and Random Forest. <b>2017</b> ,	12
916	Video Annotation by Cascading Microtasks. <b>2017</b> ,	O
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914	Freudian Slips: Analysing the Internal Representations of a Neural Network from Its Mistakes. <b>2017</b> , 138-148	1
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907	Small Molecule Accurate Recognition Technology (SMART) to Enhance Natural Products Research. <b>2017</b> , 7, 14243	40
906	Diagnosis of osteoporosis disease from bone X-ray images with stacked sparse autoencoder and SVM classifier. <b>2017</b> ,	9
905	A survey of deep-learning frameworks. <b>2017</b> ,	20
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903	Solving ill-posed inverse problems using iterative deep neural networks. <b>2017</b> , 33, 124007	241
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895	Variational Deep Semantic Hashing for Text Documents. <b>2017</b> ,	25
894	A deep learning-based sports player evaluation model based on game statistics and news articles. <b>2017</b> , 138, 15-26	13
893	A review of object detection based on convolutional neural network. <b>2017</b> ,	45
892	Probing Human Brain Function with Artificial Neural Networks. <b>2017</b> , 413-423	2
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890	Editorial overview: Computational neuroscience. <b>2017</b> , 46, A1-A5	3
889	Optimization Methods for Supervised Machine Learning: From Linear Models to Deep Learning. <b>2017</b> , 89-113	8
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831	Investigation on deep learning for off-line handwritten Arabic Character Recognition using Theano research platform. <b>2017</b> ,		4	
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811	An attention-based neural popularity prediction model for social media events. 2017,	2

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440	Contrastive Self-Supervised Learning for Predicting Disease-RNA Associations. 2022,	О
439	Spectral classification by generative adversarial linear discriminant analysis. <b>2023</b> , 341129	Ο
438	Research progress on diagnosing retinal vascular diseases based on artificial intelligence and fundus images. 11,	0
437	A fuzzy evaluation approach to determine superiority of deep learning network system in terms of recognition capability: case study of lung cancer imaging.	Ο
436	Image masking using convolutional networks improves performance classification of radiation pneumonitis for non-small cell lung cancer.	О
435	The Effect of Normalization and Batch Normalization Layers in CNNs Models: Application to Plant Disease Classifications. <b>2023</b> , 250-262	O
434	Pretreatment ultrasound-based deep learning radiomics model for the early prediction of pathologic response to neoadjuvant chemotherapy in breast cancer.	О
433	Ethical requirements in job advertisements: A deep learning approach.	Ο

432	Construct A Unique Agent Network For Cooperative Multi -agent Reinforcement Learning. 2022,	O
431	Research on Spectrum Sensing Algorithm Based on Deep Neural Network. <b>2023</b> , 242-250	O
430	SF-YOLOv5: Improved YOLOv5 with swin transformer and fusion-concat method for multi-UAV detection. 002029402311641	О
429	Modulation Format Identification and OSNR Monitoring Based on Multi-Feature Fusion Network. <b>2023</b> , 10, 373	O
428	Application of deep generative networks for SAR/ISAR: a review.	O
427	Adaptive Prompt Learning-Based Few-Shot Sentiment Analysis.	O
426	Main Factors on Effect of Precise Measurement and Precise Tamping Based on BP Neural Network. <b>2023</b> , 13, 4273	О
425	A Block Gray Adversarial Attack Method for Image Classification Neural Network. 2022,	Ο
424	Automatic extraction of surface water based on lightweight convolutional neural network. <b>2023</b> , 256, 114843	0
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421	Granular Neural Networks. <b>2023</b> , 265-277	Ο
420	A Neuro-Symbolic Approach for Fault Diagnosis in Smart Power Grids. 2022,	0
419	Performance Analysis of Convolutional Neural Networks and Multilayer Perceptron in Generative Adversarial Networks. <b>2023</b> ,	O
418	Convolutional neural network-based apple images classification and image quality measurement by light colors using the color-balancing approach.	O
417	Research on image classification algorithm of domestic garbage based on deep learning method. <b>2023</b> ,	O
416	Deep learning neural network for driver drowsiness detection using eyes recognition. 2023,	O
415	Empirical Study on Categorized Deep Learning Frameworks for Segmentation of Brain Tumor. <b>2023</b> , 531-539	O

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413	How do serum lipid levels change and influence progression-free survival in epithelial ovarian cancer patients receiving bevacizumab treatment?. 13,	О
412	Machine LearningBupported Prediction of Dual Variables for the Cutting Stock Problem with an Application in Stabilized Column Generation.	O
411	Application of image processing and transfer learning for the detection of rust disease. <b>2023</b> , 13,	O
410	An instance-based deep transfer learning method for quality identification of Longjing tea from multiple geographical origins.	0
409	Design of a Segmentation and Classification System for Seed Detection Based on Pixel Intensity Thresholds and Convolutional Neural Networks. <b>2023</b> , 1-17	O
408	Dual Reciprocal Sensing Prediction Method of Underground 3D Displacement Based on RBF-MLP Neural Network Combination Model. <b>2023</b> ,	0
407	Evaluation of artificial intelligence model for crowding categorization and extraction diagnosis using intraoral photographs. <b>2023</b> , 13,	О
406	Adaptive Recurrent Iterative Updating Stereo Matching Network. 2023, 11, 83-98	O
405	Inferring spatial transcriptomics markers from whole slide images to characterize metastasis-related spatial heterogeneity of colorectal tumors: A pilot study. <b>2023</b> , 14, 100308	О
404	Deep Learning Based Fusion Models for Sensitive Information Identification. 2023,	O
403	Introduction. 2023, 1-5	О
402	Small Photoresist Defect Samples Augmentation Based on Generative Adversarial Network. 2023,	О
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399	DeepBoundary: A Coverage Testing Method of Deep Learning Software based on Decision Boundary Representation. <b>2022</b> ,	O
398	Deep Learning for Information Systems Research. <b>2023</b> , 40, 271-301	0
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394	Trends in forensic microbiology: From classical methods to deep learning. 14,	O
393	A Comparison Study of Convolutional Neural Network and Recurrent Neural Network on Image Classification. <b>2022</b> ,	O
392	Fall Risk Assessment Using Pressure Insole Sensors and Convolutional Neural Networks. 2022,	O
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388	Scrutinize and Discover of Image of Freshwater Taken by Faraway Realizing Using FFNN and ConvNet Mechanisms. <b>2023</b> , 145-155	O
387	Neural Network-Based Identification of Cloud Types from Ground-Based Images of Cloud Layers. <b>2023</b> , 13, 4470	O
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383	Use of a Convolutional Neural Network for Predicting Fuel Consumption of an Agricultural Tractor. <b>2023</b> , 12, 46	O
382	Improving the accuracy of models to map alpine grassland above-ground biomass using Google earth engine.	О
381	Symmetric-threshold ReLU for Fast and Nearly Lossless ANN-SNN Conversion.	O
380	Multi-Agent Deep Reinforcement Learning for Multi-Robot Applications: A Survey. <b>2023</b> , 23, 3625	O
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377	Application of long short-term memory network for wellbore trajectory prediction. 1-20	O
376	Capturing complexity over space and time via deep learning: An application to real-time delay prediction in railways. <b>2023</b> ,	О
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366	Deep Learning-Based Rainfall Prediction Using Cloud Image Analysis. 2023, 61, 1-11	0
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359	??????????. <b>2023</b> , 60, 0312003	О
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337	RNN-LSTM-Based Model Predictive Control for a Corn-to-Sugar Process. <b>2023</b> , 11, 1080	O
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335	Emerging trends and research foci of deep learning in spine: bibliometric and visualization study. <b>2023</b> , 46,	o
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327	An assessment of vegetation cover of Mysuru City, Karnataka State, India, using deep convolutional neural networks. <b>2023</b> , 195,	O
326	Prediction of Diabetic Patients with High Risk of Readmission using Smart Decision Support Framework. <b>2023</b> ,	О
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323	Topological Dependencies in Deep Learning for Mobile Edge: Distributed and Collaborative High-Speed Inference. <b>2023</b> ,	O
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321	Off-Policy Reinforcement based on a Safe Model Eco-Driving Education for Fully-Automated, Connected Hybrid Vehicles. <b>2023</b> ,	O
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319	Probabilistic prediction with locally weighted jackknife predictive system.	O
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317	Online Inductance Estimation of PM-Assisted Synchronous Reluctance Motor Using Artificial Neural Network. <b>2023</b> ,	O
316	Deep Learning Enabled Perceptive Wearable Sensor: An Interactive Gadget for Tracking Movement Disorder.	O
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311	Artificial intelligence in precision medicine. <b>2023</b> , 531-569	O
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245	Time Series Forecasting Performance of the Novel Deep Learning Algorithms on Stack Overflow Website Data. <b>2023</b> , 13, 4781	O
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207	Multivariate Time Series Retrieval with Binary Coding from Transformer. 2023, 397-408	O
206	BACH: Black-Box Attacking on Deep Cross-Modal Hamming Retrieval Models. 2023, 441-456	0
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204	MAR2MIX: A Novel Model for Ɗynamic Problem in Multi-agent Reinforcement Learning. <b>2023</b> , 671-682	0
203	Multi-Scale Ship Detection Algorithm Based on YOLOv7 for Complex Scene SAR Images. <b>2023</b> , 15, 2071	O
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