

CITATION REPORT

List of articles citing

Shortcut learning in deep neural networks

DOI: 10.1038/s42256-020-00257-z

Nature Machine Intelligence, 2020, 2, 665-673.

Source: <https://exaly.com/paper-pdf/75789561/citation-report.pdf>

Version: 2024-04-24

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
297	Color illusions also deceive CNNs for low-level vision tasks: Analysis and implications. 2020 , 176, 156-174		3
296	Learning credible DNNs via incorporating prior knowledge and model local explanation. 2021 , 63, 305-332		2
295	Putative ratios of facial attractiveness in a deep neural network. 2021 , 178, 86-99		5
294	Lessons From Deep Neural Networks for Studying the Coding Principles of Biological Neural Networks. 2020 , 14, 615129		3
293	Robustness Testing of AI Systems: A Case Study for Traffic Sign Recognition. 2021 , 256-267		1
292	Artificial Intelligence for Medical Diagnosis. 2021 , 1-21		
291	Comparing minds and machines: implications for financial stability.		
290	Learning earth system models from observations: machine learning or data assimilation?. 2021 , 379, 20200089		22
289	Sensitivity analysis for interpretation of machine learning based segmentation models in cardiac MRI. 2021 , 21, 27		7
288	Differentiable molecular simulation can learn all the parameters in a coarse-grained force field for proteins.		1
287	Biological convolutions improve DNN robustness to noise and generalisation.		1
286	Reply: From 'loose fitting' to high-performance, uncertainty-aware brain-age modelling. 2021 , 144, e32		1
285	From Learning to Relearning: A Framework for Diminishing Bias in Social Robot Navigation. 2021 , 8, 650325		5
284	Trustworthy medical AI systems need to know when they don't know. 2021 ,		1
283	On Self-Supervised Multimodal Representation Learning: An Application To Alzheimer's Disease. 2021 ,		2
282	Plant detection and counting from high-resolution RGB images acquired from UAVs: comparison between deep-learning and handcrafted methods with application to maize, sugar beet, and sunflower crops.		1
281	RANDGAN: Randomized generative adversarial network for detection of COVID-19 in chest X-ray. 2021 , 11, 8602		15

280	Unsupervised learning predicts human perception and misperception of gloss. 2021 , 5, 1402-1417	8
279	Randomised controlled trials in medical AI: ethical considerations. 2021 ,	0
278	Deep Neural Networks for Genomic Prediction Do Not Estimate Marker Effects.	1
277	Adaptive Autonomy in Human-on-the-Loop Vision-Based Robotics Systems. 2021 ,	1
276	DeepImmuno: deep learning-empowered prediction and generation of immunogenic peptides for T-cell immunity. 2021 , 22,	5
275	AI for radiographic COVID-19 detection selects shortcuts over signal. <i>Nature Machine Intelligence</i> , 2021 , 3, 610-619	22.5 47
274	Train the Neural Network by Abstract Images. 2021 , 1952, 022009	
273	GAN-Based Data Augmentation and Anonymization for Skin-Lesion Analysis: A Critical Review. 2021 ,	7
272	Toward False Event Detection and Quarry Blast versus Earthquake Discrimination in an Operational Setting Using Semiautomated Machine Learning.	2
271	Abstraction and analogy-making in artificial intelligence. 2021 ,	6
270	Patch Shortcuts: Interpretable Proxy Models Efficiently Find Black-Box Vulnerabilities. 2021 ,	
269	Bridging observations, theory and numerical simulation of the ocean using machine learning. 2021 , 16, 073008	6
268	On the Use of Causal Models to Build Better Datasets. 2021 ,	0
267	A Marr's Three-Level Analytical Framework for Neuromorphic Electronic Systems. 2021 , 3, 2100054	0
266	Relation Classification for Bleeding Events From Electronic Health Records Using Deep Learning Systems: An Empirical Study. 2021 , 9, e27527	1
265	Deep-Learning-Based Multimodal Emotion Classification for Music Videos. 2021 , 21,	10
264	Classification of Cardiomyopathies from MR Cine Images Using Convolutional Neural Network with Transfer Learning. 2021 , 11,	0
263	Towards neural Earth system modelling by integrating artificial intelligence in Earth system science. <i>Nature Machine Intelligence</i> , 2021 , 3, 667-674	22.5 17

262	Detecting Spurious Correlations With Sanity Tests for Artificial Intelligence Guided Radiology Systems. 2021 , 3, 671015	1
261	Object-scene conceptual regularities reveal fundamental differences between biological and artificial object vision.	2
260	Differentiable molecular simulation can learn all the parameters in a coarse-grained force field for proteins. 2021 , 16, e0256990	2
259	Use of artificial intelligence for image analysis in breast cancer screening programmes: systematic review of test accuracy. 2021 , 374, n1872	25
258	Comparing minds and machines: implications for financial stability. 2021 , 37, 479-508	1
257	Course Corrections for Clinical AI.. 2021 , 2, 2019-2023	
256	A benchmark for neural network robustness in skin cancer classification. 2021 , 155, 191-199	6
255	A guide to machine learning for biologists. 2021 ,	55
254	MotifBoost: k-mer based data-efficient immune repertoire classification method.	0
253	Deep neural networks for genomic prediction do not estimate marker effects. 2021 , 14, e20147	2
252	Solving the Rubik's cube with stepwise deep learning. 2021 , 38, e12665	1
251	Gender Bias in Machine Translation. 2021 , 9, 845-874	9
250	Consumer Artificial Intelligence Mishaps and Mitigation Strategies. 2021 , 1-1	0
249	MARS-Net: Deep learning-based segmentation pipeline for profiling cellular morphodynamics from multiple types of live cell microscopy.	3
248	AI for radiographic COVID-19 detection selects shortcuts over signal. 2020 ,	20
247	DeepImmuno: Deep learning-empowered prediction and generation of immunogenic peptides for T cell immunity. 2020 ,	1
246	Artificial Intelligence—New Clothes? From General Purpose Technology to Large Technical System.	1
245	Multimodal Scale Consistency and Awareness for Monocular Self-Supervised Depth Estimation. 2021 ,	2

244	Current limitations to identify covid-19 using artificial intelligence with chest x-ray imaging (part ii). The shortcut learning problem. 2021 , 11, 1-15	2
243	Multi-instance learning of graph neural networks for aqueous pKa prediction. 2021 ,	1
242	Trustworthy Multimedia Analysis. 2021 ,	0
241	Comparing Object Recognition in Humans and Deep Convolutional Neural Networks-An Eye Tracking Study. 2021 , 15, 750639	1
240	Uncovering expression signatures of synergistic drug response using an ensemble of explainable AI models.	
239	Feature blindness: a challenge for understanding and modelling visual object recognition.	0
238	Deep learning-based detection and segmentation of diffusion abnormalities in acute ischemic stroke.	0
237	Toward Generalizability in the Deployment of Artificial Intelligence in Radiology: Role of Computation Stress Testing to Overcome Underspecification. 2021 , 3, e210097	6
236	On the prediction of human intelligence from neuroimaging: A systematic review of methods and reporting.	
235	A deep learning-based segmentation pipeline for profiling cellular morphodynamics using multiple types of live cell microscopy. 2021 , 1,	2
234	Simple Convolutional-Based Models: Are They Learning the Task or the Data?. 2021 , 33, 3334-3350	0
233	Hardening Soft Information: A Transformer-Based Approach to Forecasting Stock Return Volatility. 2020 ,	0
232	Automatic Classification of Diabetic Foot Ulcers Using Computer Vision Techniques. 2021 , 290-299	0
231	Conditional Adversarial Camera Model Anonymization. 2020 , 217-235	0
230	Self-Supervised Deep Monocular Depth Estimation with Ambiguity Boosting. 2021 , PP,	1
229	Natural Adversarial Examples. 2021 ,	40
228	Neural Response Time Analysis: XAI Using Only a Stopwatch	0
227	Deep Neural Network Models of Object Recognition Exhibit Human-Like Limitations when Performing Visual Search Tasks.	0

226	Class imbalance in out-of-distribution datasets: Improving the robustness of the TextCNN for the classification of rare cancer types. 2021 , 125, 103957	5
225	CLEVR-XAI: A benchmark dataset for the ground truth evaluation of neural network explanations. 2021 ,	6
224	Can the computer see what the human sees?. 2021 , 138, 1907-1908	
223	Artificial Intelligence, Heuristic Biases, and the Optimization of Health Outcomes: Cautionary Optimism. 2021 , 10,	1
222	Data and its (dis)contents: A survey of dataset development and use in machine learning research. 2021 , 2, 100336	19
221	Building human-like communicative intelligence: A grounded perspective. 2022 , 72, 63-79	0
220	Cross-domain object detection using unsupervised image translation. 2022 , 192, 116334	0
219	Towards Model-informed Precision Dosing with Expert-in-the-loop Machine Learning. 2021 ,	1
218	Training calibration-based counterfactual explainers for deep learning models in medical image analysis.. 2022 , 12, 597	
217	The Road to Personalized Medicine in Alzheimer's Disease: The Use of Artificial Intelligence.. 2022 , 10,	1
216	Automatic discrimination between front and back ensemble locations in HRTF-convolved binaural recordings of music. 2022 , 2022,	1
215	Spectral decoupling for training transferable neural networks in medical imaging.. 2022 , 25, 103767	
214	Clinical validation of saliency maps for understanding deep neural networks in ophthalmology.. 2022 , 77, 102364	4
213	Biological convolutions improve DNN robustness to noise and generalisation.. 2021 , 148, 96-110	1
212	Clever Hans effect found in a widely used brain tumour MRI dataset.. 2022 , 77, 102368	1
211	ADA-COVID: Adversarial Deep Domain Adaptation-Based Diagnosis of COVID-19 from Lung CT Scans Using Triplet Embeddings.. 2022 , 2022, 2564022	2
210	Adversarial Machine Learning. 2022 , 287-312	
209	Artificial Intelligence for Medical Diagnosis. 2022 , 181-201	0

208	Agree to Disagree: When Deep Learning Models With Identical Architectures Produce Distinct Explanations. 2022 ,	1
207	Understanding the Computational Demands Underlying Visual Reasoning.. 2022 , 1-25	1
206	Can Robots Do Epidemiology? Machine Learning, Causal Inference, and Predicting the Outcomes of Public Health Interventions.. 2022 , 35, 14	0
205	Towards hybrid modeling of the global hydrological cycle. 2022 , 26, 1579-1614	2
204	Deep neural models for color classification and color constancy.. 2022 , 22, 17	0
203	Learning Disentangled Behaviour Patterns for Wearable-based Human Activity Recognition. 2022 , 6, 1-19	2
202	Deep Learning and Medical Image Analysis for COVID-19 Diagnosis and Prediction.. 2022 ,	3
201	Combining chest X-rays and electronic health record (EHR) data using machine learning to diagnose acute respiratory failure.. 2022 ,	2
200	The DeepFaune initiative: a collaborative effort towards the automatic identification of the French fauna in camera-trap images.	0
199	Classifying REM Sleep Behavior Disorder through CNNs with Image-Based Representations of EEGs.	
198	Understanding Predictive Factors of Dementia for Older Adults: A Machine Learning Approach for Modeling Dementia Influencers. 2022 , 102834	0
197	The role of capacity constraints in Convolutional Neural Networks for learning random versus natural data.	
196	The pitfalls of measuring representational similarity using representational similarity analysis.	0
195	Analysing Deep Reinforcement Learning Agents Trained with Domain Randomisation. 2022 ,	
194	Establishing Data Provenance for Responsible Artificial Intelligence Systems. 2022 , 13, 1-23	1
193	The explainability paradox: Challenges for xAI in digital pathology. 2022 , 133, 281-296	3
192	Learning Causal Representation for Training Cross-Domain Pose Estimator via Generative Interventions. 2021 ,	0
191	The Many Faces of Robustness: A Critical Analysis of Out-of-Distribution Generalization. 2021 ,	30

190	DiagViB-6: A Diagnostic Benchmark Suite for Vision Models in the Presence of Shortcut and Generalization Opportunities. 2021 ,	2
189	Beyond Question-Based Biases: Assessing Multimodal Shortcut Learning in Visual Question Answering. 2021 ,	1
188	BiaSwap: Removing Dataset Bias with Bias-Tailored Swapping Augmentation. 2021 ,	2
187	Towards Stroke Biomarkers on Fundus Retinal Imaging: A Comparison Between Vasculature Embeddings and General Purpose Convolutional Neural Networks. 2021 , 2021, 3873-3876	1
186	Identifying Microscopic Augmented Images using Pre-Trained Deep Convolutional Neural Networks. 2021 ,	0
185	Structured Verification of Machine Learning Models in Industrial Settings.. 2021 ,	
184	Uncovering and Correcting Shortcut Learning in Machine Learning Models for Skin Cancer Diagnosis.. 2021 , 12,	4
183	Requirement analysis for an artificial intelligence model for the diagnosis of the COVID-19 from chest X-ray data. 2021 ,	
182	Deep learning-based detection and segmentation of diffusion abnormalities in acute ischemic stroke. 2021 , 1,	1
181	Learning Interpretation with Explainable Knowledge Distillation. 2021 ,	0
180	Do comprehensive deep learning algorithms suffer from hidden stratification? A retrospective study on pneumothorax detection in chest radiography. 2021 , 11, e053024	1
179	Research on Wastewater Treatment Monitoring Algorithms Based on Deep Convolutional Neural Networks. 2022 , 2022, 1-11	
178	Towards a safe and efficient clinical implementation of machine learning in radiation oncology by exploring model interpretability, explainability and data-model dependency.. 2022 ,	0
177	Image Classification With Small Datasets: Overview and Benchmark. 2022 , 10, 49233-49250	2
176	Tree-KGQA: An Unsupervised Approach for Question Answering Over Knowledge Graphs. 2022 , 1-1	2
175	ADAM Challenge: Detecting Age-related Macular Degeneration from Fundus Images.. 2022 , PP,	1
174	Multi-task learning uncovers robust translation cis-regulatory features.	
173	Contrastive Siamese Network for Semi-Supervised Speech Recognition. 2022 ,	

172	Detecting racial inequalities in criminal justice: towards an equitable deep learning approach for generating and interpreting racial categories using mugshots. 1	0
171	On the prediction of human intelligence from neuroimaging: A systematic review of methods and reporting. 2022 , 93, 101654	0
170	Federated Learning for Personalized Humor Recognition. 2022 , 13, 1-18	0
169	Feature blindness: A challenge for understanding and modelling visual object recognition.. 2022 , 18, e1009572	0
168	Deceptive learning in histopathology.	0
167	Adaptive Malware Control. 2022 ,	0
166	Responsible and Regulatory Conform Machine Learning for Medicine: A Survey of Challenges and Solutions. 2022 , 1-1	1
165	Visual Cluster Grounding for Image Captioning. 2022 , 1-1	0
164	In Vivo Detection of Plaque Erosion by Intravascular Optical Coherence Tomography Using Artificial Intelligence.	2
163	Direct Human-AI Comparison in the Animal-AI Environment. 2022 , 13,	0
162	Establishing the Contaminating Effect of Metadata Feature Inclusion in Machine-Learned Network Intrusion Detection Models. 2022 , 23-41	0
161	Survey of Low-Resource Machine Translation. 1-67	1
160	Gender and Racial Bias in Visual Question Answering Datasets. 2022 ,	0
159	Captcha me if you can: Imitation Games with Reinforcement Learning. 2022 ,	0
158	Combining the strengths of radiologists and AI for breast cancer screening: a retrospective analysis. 2022 , 4, e507-e519	3
157	BEHM-GAN: Bandwidth Extension of Historical Music using Generative Adversarial Networks. 2022 , 1-14	0
156	Could simplified stimuli change how the brain performs visual search tasks? A deep neural network study. 2022 , 22, 3	0
155	A structural characterization of shortcut features for prediction. 2022 , 37, 563-568	0

154	Temporal quality degradation in AI models. 2022 , 12,	0
153	Trustworthy AI: A Computational Perspective.	2
152	Visual explanations for the detection of diabetic retinopathy from retinal fundus images.	
151	Machine Learning Approaches to TCR Repertoire Analysis. 13,	0
150	Comparative Study of Repertoire Classification Methods Reveals Data Efficiency of k-mer Feature Extraction. 13,	0
149	Interpretability-Guided Inductive Bias For Deep Learning Based Medical Image Classification And Segmentation. 2022 , 102551	2
148	The Worst of Both Worlds: A Comparative Analysis of Errors in Learning from Data in Psychology and Machine Learning. 2022 ,	0
147	Improving Robustness to Texture Bias via Shape-focused Augmentation. 2022 ,	
146	Should I take a walk? Estimating Energy Expenditure from Video Data. 2022 ,	
145	Can domain adaptation make object recognition work for everyone?. 2022 ,	
144	ResNet Does Not Perform Intelligent Understanding of Picture in Image Recognition. 2022 ,	
143	Three approaches to facilitate invariant neurons and generalization to out-of-distribution orientations and illuminations. 2022 ,	
142	Causal Attention for Interpretable and Generalizable Graph Classification. 2022 ,	0
141	Self-supervised learning in medicine and healthcare.	6
140	Causal machine learning for healthcare and precision medicine. 2022 , 9,	3
139	Deep learning techniques for integrated circuit die performance prediction.	
138	Advances, challenges and opportunities in creating data for trustworthy AI.	6
137	Hitting the Mark: Reducing Bias in AI Systems. 2022 , 4,	0

136	Detecting and ranking pornographic content in videos. 2022 , 42, 301436	1
135	Periodicity counting in videos with unsupervised learning of cyclic embeddings. 2022 , 161, 59-66	
134	Rethinking Annotation Granularity for Overcoming Shortcuts in Deep Learning-Based Radiograph Diagnosis: A Multicenter Study. 2022 , 4,	0
133	Fx-Net and PureNet: Convolutional Neural Network architecture for discrimination of Chronic Obstructive Pulmonary Disease from smokers and healthy subjects through electronic nose signals. 2022 , 148, 105913	0
132	Domain Generalization: A Survey. 2022 , 1-20	28
131	Pre-thrombectomy prognostic prediction of large-vessel ischemic stroke using machine learning: A systematic review and meta-analysis. 13,	0
130	Platelet RNA Sequencing Data Through the Lens of Machine Learning.	0
129	Feature Robustness and Sex Differences in Medical Imaging: A Case Study in MRI-Based Alzheimer Disease Detection. 2022 , 88-98	0
128	DOT-VAE: Disentangling One Factor at a Time. 2022 , 109-120	0
127	Learning Robust Representation for Joint Grading of Ophthalmic Diseases via Adaptive Curriculum and Feature Disentanglement. 2022 , 523-533	0
126	Visual Explanations for the Detection of Diabetic Retinopathy from Retinal Fundus Images. 2022 , 539-549	0
125	Pseudo Bias-Balanced Learning for Debaised Chest X-Ray Classification. 2022 , 621-631	0
124	Multi-attribute Open Set Recognition. 2022 , 101-115	0
123	Interpretable Lung Cancer Diagnosis with Nodule Attribute Guidance and Online Model Debugging. 2022 , 1-11	0
122	Abstains from Prediction: Towards Robust Relation Extraction in Real World. 2022 , 96-111	0
121	Efficient Maximal Coding Rate Reduction by Variational Forms. 2022 ,	0
120	OoD-Bench: Quantifying and Understanding Two Dimensions of Out-of-Distribution Generalization. 2022 ,	5
119	Towards Principled Disentanglement for Domain Generalization. 2022 ,	3

118	A Comprehensive Study of Image Classification Model Sensitivity to Foregrounds, Backgrounds, and Visual Attributes. 2022,	1
117	AutoGPart: Intermediate Supervision Search for Generalizable 3D Part Segmentation. 2022,	0
116	3D Common Corruptions and Data Augmentation. 2022,	0
115	Unsupervised Learning of Debiased Representations with Pseudo-Attributes. 2022,	0
114	The Auto Arborist Dataset: A Large-Scale Benchmark for Multiview Urban Forest Monitoring Under Domain Shift. 2022,	0
113	ITSA: An Information-Theoretic Approach to Automatic Shortcut Avoidance and Domain Generalization in Stereo Matching Networks. 2022,	0
112	Show, Deconfound and Tell: Image Captioning with Causal Inference. 2022,	2
111	Failure Modes of Domain Generalization Algorithms. 2022,	0
110	Evading the Simplicity Bias: Training a Diverse Set of Models Discovers Solutions with Superior OOD Generalization. 2022,	2
109	BoosterNet: Improving Domain Generalization of Deep Neural Nets using Culpability-Ranked Features. 2022,	0
108	Bayesian Invariant Risk Minimization. 2022,	0
107	Research on the Analysis of Correlation Factors of English Translation Ability Improvement Based on Deep Neural Network. 2022, 2022, 1-11	0
106	Speciesist bias in AI: how AI applications perpetuate discrimination and unfair outcomes against animals.	0
105	Software Security Testing through Coverage in Deep Neural Networks. 2022, 2022, 1-7	0
104	Security Analysis of Social Network Topic Mining Using Big Data and Optimized Deep Convolutional Neural Network. 2022, 2022, 1-12	0
103	Guiding visual attention in deep convolutional neural networks based on human eye movements. 16,	0
102	Interpretable deep learning: interpretation, interpretability, trustworthiness, and beyond.	5
101	Recommendations on compiling test datasets for evaluating artificial intelligence solutions in pathology.	0

100	Comparing Handcrafted Features and Deep Neural Representations for Domain Generalization in Human Activity Recognition. 2022 , 22, 7324	2
99	Defending Substitution-Based Profile Pollution Attacks on Sequential Recommenders. 2022 ,	0
98	Machine learning for discovery: deciphering RNA splicing logic.	0
97	Human Perception of Audio Deepfakes. 2022 ,	1
96	Deep learning models for COVID-19 chest x-ray classification: Preventing shortcut learning using feature disentanglement. 2022 , 17, e0274098	0
95	CycleGAN for virtual stain transfer: Is seeing really believing?. 2022 , 102420	0
94	Tailoring Self-Supervision for Supervised Learning. 2022 , 346-364	0
93	Difficulty-Aware Simulator for Open Set Recognition. 2022 , 365-381	0
92	Attention Diversification for Domain Generalization. 2022 , 322-340	1
91	Equivariance and Invariance Inductive Bias for Learning from Insufficient Data. 2022 , 241-258	0
90	SPot-the-Difference Self-supervised Pre-training for Anomaly Detection and Segmentation. 2022 , 392-408	0
89	Discover and Mitigate Unknown Biases with Debiasing Alternate Networks. 2022 , 270-288	0
88	TextAdaIN: Paying Attention to Shortcut Learning in Text Recognizers. 2022 , 427-445	0
87	Resolving Copycat Problems in Visual Imitation Learning via Residual Action Prediction. 2022 , 392-409	0
86	Overcoming Shortcut Learning in Target Domain by Generalizing Basic Visual Factors from Source Domain. 2022 , 294-309	0
85	Out-of-Distribution (OOD) Detection Based on Deep Learning: A Review. 2022 , 11, 3500	1
84	Influence of contrast and texture based image modifications on the performance and attention shift of U-Net models for brain tissue segmentation. 1,	0
83	Improving disease classification performance and explainability of deep learning models in radiology with heatmap generators. 2,	0

82	Inductive biases for deep learning of higher-level cognition. 2022 , 478,	2
81	Counterfactual Reasoning for Out-of-distribution Multimodal Sentiment Analysis. 2022 ,	0
80	The Role of Deep Learning in Advancing Breast Cancer Detection Using Different Imaging Modalities: A Systematic Review. 2022 , 14, 5334	1
79	Assessment of the Generalization Abilities of Machine-Learning Scoring Functions for Structure-Based Virtual Screening.	0
78	Joint EANM/SNMMI guideline on radiomics in nuclear medicine.	3
77	Interpreting mental state decoding with deep learning models. 2022 , 26, 972-986	2
76	PIP: Physical Interaction Prediction via Mental Simulation with Span Selection. 2022 , 405-421	0
75	Classification of single-view object point clouds. 2023 , 135, 109137	0
74	Identifying a Training-Set Attack's Target Using Renormalized Influence Estimation. 2022 ,	0
73	Understanding Machine Learning Practitioners' Data Documentation Perceptions, Needs, Challenges, and Desiderata. 2022 , 6, 1-29	0
72	A comparison of classical and machine learning-based phenotype prediction methods on simulated data and three plant species. 13,	0
71	AI/ML for Network Security. 2022 ,	0
70	MILCDock: Machine Learning Enhanced Consensus Docking for Virtual Screening in Drug Discovery.	0
69	Mapping global dynamics of benchmark creation and saturation in artificial intelligence. 2022 , 13,	0
68	Through the looking glass: Deep interpretable dynamic directed connectivity in resting fMRI. 2022 , 264, 119737	0
67	Using model explanations to guide deep learning models towards consistent explanations for EHR data. 2022 , 12,	0
66	Explanation-by-Example Based on Item Response Theory. 2022 , 283-297	0
65	Cross-dataset performance evaluation of deep learning distracted driver detection algorithms. 2022 , 370, 07002	0

64	Anatomical attention-based prediction of postoperative pulmonary venous obstruction via CTA images. 2023 , 103, 102163	0
63	CNN Image Recognition is Mainly Based on Local Features. 2022 ,	0
62	Determining the clinical applicability of machine learning models through assessment of reporting across skin phototypes and rarer skin cancer types: a systematic review.	0
61	Machine learning models inaccurately predict current and future high-latitude C balances.	0
60	A Too-Good-to-be-True Prior to Reduce Shortcut Reliance. 2022 ,	0
59	Coding energy knowledge in constructed responses with explainable NLP models.	0
58	A deep transfer learning-based protocol accelerates full quantum mechanics calculation of protein.	0
57	Improving fine-tuning of self-supervised models with Contrastive Initialization. 2022 ,	0
56	Detecting Audio Adversarial Examples in Automatic Speech Recognition Systems Using Decision Boundary Patterns. 2022 , 8, 324	0
55	An ensemble transformer-based model for Arabic sentiment analysis. 2023 , 13,	0
54	Computer-aided diagnosis through medical image retrieval in radiology. 2022 , 12,	0
53	Crop genomic selection with deep learning and environmental data: A survey. 5,	0
52	An SSA-LC-DAE Method for Extracting Network Security Elements. 2023 , 1-11	0
51	AMTLDC: a new adversarial multi-source transfer learning framework to diagnosis of COVID-19.	0
50	Towards Synthetic Data: Dealing with the Texture-Bias in Sim2real Learning. 2023 , 630-642	0
49	Towards the Quantitative Verification of Deep Learning for Safe Perception. 2022 ,	0
48	Data Leakage in Notebooks: Static Detection and Better Processes. 2022 ,	1
47	Shortcut Learning in Financial Text Mining: Exposing the Overly Optimistic Performance Estimates of Text Classification Models under Distribution Shift. 2022 ,	0

- 46 Counterfactual Supervision-Based Information Bottleneck for Out-of-Distribution Generalization. **2023**, 25, 193 ○
- 45 Closer Look at the Transferability of Adversarial Examples: How They Fool Different Models Differently. **2023**, ○
- 44 Multi-label Attention Map Assisted Deep Feature Learning for Medical Image Classification. **2023**, 722-734 ○
- 43 Improving the classification accuracy in label-free flow cytometry using event-based vision and simple logistic regression. **2023**, 1-9 ○
- 42 Addressing Feature Suppression in Unsupervised Visual Representations. **2023**, ○
- 41 On the Analyses of Medical Images Using Traditional Machine Learning Techniques and Convolutional Neural Networks. ○
- 40 Generalization of vision pre-trained models for histopathology. **2023**, 13, ○
- 39 Explainable AI in medical imaging: An overview for clinical practitioners | saliency-based XAI approaches. **2023**, 162, 110787 ○
- 38 Towards scalable physically consistent neural networks: An application to data-driven multi-zone thermal building models. **2023**, 340, 121071 ○
- 37 Platelet-Based Liquid Biopsies through the Lens of Machine Learning. **2023**, 15, 2336 ○
- 36 Benchmarking explanation methods for mental state decoding with deep learning models. **2023**, 273, 120109 ○
- 35 Segmentation Consistency Training: Out-of-Distribution Generalization for Medical Image Segmentation. **2022**, ○
- 34 Phy-Q as a measure for physical reasoning intelligence. **2023**, 5, 83-93 ○
- 33 Mind the gap: challenges of deep learning approaches to Theory of Mind. ○
- 32 The role of capacity constraints in Convolutional Neural Networks for learning random versus natural data. **2023**, 161, 515-524 ○
- 31 Improving Data-Efficiency and Robustness of Medical Imaging Segmentation Using Inpainting-Based Self-Supervised Learning. **2023**, 10, 207 1
- 30 Learning How to MIMIC: Using Model Explanations to Guide Deep Learning Training. **2023**, ○
- 29 CLAD: A realistic Continual Learning benchmark for Autonomous Driving. **2023**, 161, 659-669 ○

- 28 Algorithmic encoding of protected characteristics in chest X-ray disease detection models. **2023**, 89, 104467 ○
- 27 MUST-VQA: MULTilingual Scene-Text VQA. **2023**, 345-358 ○
- 26 An Evaluation of Self-supervised Pre-training for Skin-Lesion Analysis. **2023**, 150-166 ○
- 25 Why we need biased AI: How including cognitive biases can enhance AI systems. 1-14 ○
- 24 Transferring Pre-trained Deep CNNs on Plantar Thermograms for Diabetic Foot Disease. **2023**, 97-107 ○
- 23 Frequency Dropout: Feature-Level Regularization via Randomized Filtering. **2023**, 281-295 ○
- 22 AMC: Adaptive Multi-expert Collaborative Network for Text-guided Image Retrieval. ○
- 21 Data-Centric and Model-Centric AI: Twin Drivers of Compact and Robust Industry 4.0 Solutions. **2023**, 13, 2753 ○
- 20 Leveraging explanations in interactive machine learning: An overview. 6, ○
- 19 Rethinking Online Knowledge Distillation with Multi-exits. **2023**, 408-424 ○
- 18 A Lightweight Automatic Wildlife Recognition Model Design Method Mitigating Shortcut Learning. **2023**, 13, 838 ○
- 17 Argumentation models and their use in corpus annotation: Practice, prospects, and challenges. 1-38 ○
- 16 A typology for exploring the mitigation of shortcut behaviour. **2023**, 5, 319-330 ○
- 15 DeepFixCX : Explainable privacy-preserving image compression for medical image analysis. ○
- 14 A Scaling Law for Syn2real Transfer: How Much Is Your Pre-training Effective?. **2023**, 477-492 ○
- 13 Scaling models of visual working memory to natural images. ○
- 12 Zero-shot prediction of therapeutic use with geometric deep learning and clinician centered design. ○
- 11 Revealing interpretable object representations from human visual cortex and artificial neural networks. **2023**, ○

- 10 Translation Rate Prediction and Regulatory Motif Discovery with Multi-task Learning. **2023**, 139-154 ○
- 9 When will AI misclassify? Intuiting failures on natural images. **2023**, 23, 4 ○
- 8 Intelligent Mining Road Object Detection Based on Multiscale Feature Fusion in Multi-UAV Networks. **2023**, 7, 250 ○
- 7 Improving the generalizability of protein-ligand binding predictions with AI-Bind. **2023**, 14, ○
- 6 Understanding CNN fragility when learning with imbalanced data. ○
- 5 Explainability and causability in digital pathology. ○
- 4 Kaleidoscope: Semantically-grounded, context-specific ML model evaluation. **2023**, ○
- 3 Waste Classification from Digital Images Using ConvNeXt. **2023**, 1-13 ○
- 2 Self-supervision advances morphological profiling by unlocking powerful image representations. ○
- 1 CT-based radiomics can identify physiological modifications of bone structure related to subjects' age and sex. ○