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## ImageNet: A large-scale hierarchical image database

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2250	Better vocabularies for assistive communication aids. <b>2009,</b>		8
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1839	Visual sentiment prediction with transfer learning and big data analytics for smart cities. <b>2016</b> ,	3
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1787	Temporal Segment Networks: Towards Good Practices for Deep Action Recognition. <b>2016</b> , 20-36	809
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1768	Exploring the space of adversarial images. <b>2016</b> ,	48
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1762	Deep feature representations for high-resolution remote sensing scene classification. <b>2016,</b>	11
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1746	A Cross-Modality Neural Network Transform for Semi-automatic Medical Image Annotation. <b>2016, 300-307</b>	7
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1733	Frame- and Segment-Level Features and Candidate Pool Evaluation for Video Caption Generation. <b>2016,</b>	49
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1662	Multi-modal tag localization for mobile video search. <b>2017</b> , 23, 713-724	1
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1645	S-Caffe. <b>2017</b> ,	48
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1643	Using a Synthetic Character Database for Training Deep Learning Models Applied to Offline Handwritten Recognition. <b>2017</b> , 299-308	
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1641	Deep Pain: Exploiting Long Short-Term Memory Networks for Facial Expression Classification. <b>2017</b> ,	111
1640	Radial Lens Distortion Correction Using Convolutional Neural Networks Trained with Synthesized Images. <b>2017</b> , 35-49	12

1639	Improving tuberculosis diagnostics using deep learning and mobile health technologies among resource-poor communities in Peru <b>2017</b> , 1-2, 66-76	19
1638	Interactive Machine Learning via a GPU-accelerated Toolkit. <b>2017</b> ,	8
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1635	Improving video event retrieval by user feedback. <b>2017</b> , 76, 22361-22381	2
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1625	Improving Small Object Proposals for Company Logo Detection. <b>2017</b> ,	25
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1616	3D skeleton-based action recognition by representing motion capture sequences as 2D-RGB images. <b>2017</b> , 28, e1782	35
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1610	Simple, Efficient and Effective Encodings of Local Deep Features for Video Action Recognition. <b>2017</b> ,	5
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1608	Training DCNN by Combining Max-Margin, Max-Correlation Objectives, and Correntropy Loss for Multilabel Image Classification. <b>2018</b> , 29, 2896-2908	14
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1604	BEST: Benchmark and Evaluation of Surveillance Task. <b>2017</b> , 393-407	2

1603	Multicontext-adaptive indexing and search for large-scale video navigation. <b>2017</b> , 6, 175-188	
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1601	Breast mass lesion classification in mammograms by transfer learning. <b>2017</b> ,	33
1600	Introduction to Visual Attributes. <b>2017</b> , 1-7	2
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1598	Divide, Share, and Conquer: Multi-task Attribute Learning with Selective Sharing. <b>2017</b> , 49-85	2
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1595	A Taxonomy of Part and Attribute Discovery Techniques. <b>2017</b> , 247-268	1
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1591	Visual Genome: Connecting Language and Vision Using Crowdsourced Dense Image Annotations. <b>2017</b> , 123, 32-73	1083
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1587	Automatic detection and classification of regions of FDG uptake in whole-body PET-CT lymphoma studies. <b>2017</b> , 60, 3-10	37
1586	Combining local and global hypotheses in deep neural network for multi-label image classification. <b>2017</b> , 235, 38-45	15

1585	STC: A Simple to Complex Framework for Weakly-Supervised Semantic Segmentation. <b>2017</b> , 39, 2314-2320	262
1584	Data augmentation for face recognition. <b>2017</b> , 230, 184-196	60
1583	CNN for saliency detection with low-level feature integration. <b>2017</b> , 226, 212-220	64
1582	Fine-Grained Image Recognition from Click-Through Logs Using Deep Siamese Network. <b>2017</b> , 127-138	3
1581	Spatio-Temporal VLAD Encoding for Human Action Recognition in Videos. <b>2017</b> , 365-378	15
1580	Collaborative Dictionary Learning and Soft Assignment for Sparse Coding of Image Features. <b>2017</b> , 443-451	1
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1578	Using Object Detection, NLP, and Knowledge Bases to Understand the Message of Images. <b>2017</b> , 405-418	2
1577	A survey of deep neural network architectures and their applications. <b>2017</b> , 234, 11-26	1412
1576	Automatic image annotation by combining generative and discriminant models. <b>2017</b> , 236, 48-55	9
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1573	A generative vision model that trains with high data efficiency and breaks text-based CAPTCHAs. <b>2017</b> , 358,	114
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1570	Deep learning for underwater image recognition in small sample size situations. <b>2017</b> ,	22
1569	Small neural nets are beautiful. <b>2017</b> ,	14
1568	CNN refinement based object recognition through optimized segmentation. <b>2017</b> , 150, 76-82	9

1567	Development of fine-grained pill identification algorithm using deep convolutional network. <b>2017</b> , 74, 130-136	13
1566	Analyzing Microscopic Images of Peripheral Blood Smear Using Deep Learning. <b>2017</b> , 178-185	10
1565	ScaleDeep. <b>2017</b> , 45, 13-26	19
1564	Recognizing Emotional States Using Speech Information. <b>2017</b> , 989, 155-164	3
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1562	Red Hen Lab: Dataset and Tools for Multimodal Human Communication Research. <b>2017</b> , 31, 357-361	6
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1557	Semantic Reasoning in Zero Example Video Event Retrieval. <b>2017</b> , 13, 1-17	10
1556	Research on the deep learning of the small sample data based on transfer learning. <b>2017</b> ,	36
1555	DeepXplore. <b>2017</b> ,	343
1554	An Investigation of Deep Learning for Lesions Malignancy Classification in Breast DCE-MRI. <b>2017</b> , 479-489	13
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1548	Designing a Moral Compass for the Future of Computer Vision Using Speculative Analysis. <b>2017</b> ,	4
1547	Exploring the Granularity of Sparsity in Convolutional Neural Networks. <b>2017</b> ,	59
1546	3D-Assisted Coarse-to-Fine Extreme-Pose Facial Landmark Detection. <b>2017</b> ,	6
1545	Cross-Domain Recommendation via Clustering on Multi-Layer Graphs. <b>2017</b> ,	31
1544	Video Action Recognition Based on Deeper Convolution Networks with Pair-Wise Frame Motion Concatenation. <b>2017</b> ,	6
1543	Recognition of Affect in the Wild Using Deep Neural Networks. <b>2017</b> ,	40
1542	SqueezeDet: Unified, Small, Low Power Fully Convolutional Neural Networks for Real-Time Object Detection for Autonomous Driving. <b>2017</b> ,	174
1541	3D U-net with Multi-level Deep Supervision: Fully Automatic Segmentation of Proximal Femur in 3D MR Images. <b>2017</b> , 274-282	43
1540	A Hierarchical Algorithm for Extreme Clustering. <b>2017</b> ,	20
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1531	Neuroscience-Inspired Artificial Intelligence. <b>2017</b> , 95, 245-258	526
1530	Compile-time optimized and statically scheduled N-D convnet primitives for multi-core and many-core (Xeon Phi) CPUs. <b>2017</b> ,	7
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1526	MNSIM: Simulation Platform for Memristor-Based Neuromorphic Computing System. <b>2017</b> , 1-1	12
1525	Globally and locally consistent image completion. <b>2017</b> , 36, 1-14	771
1524	Challenges and Opportunities in Automated Detection of Eating Activity. <b>2017</b> , 151-174	1
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1519	Fast, Dense Feature SDM on an iPhone. <b>2017</b> ,	
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1517	RSTensorFlow: GPU Enabled TensorFlow for Deep Learning on Commodity Android Devices. <b>2017</b> , 2017, 7-12	33
1516	Gender Classification from NIR Iris Images Using Deep Learning. <b>2017</b> , 219-239	12
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1506	Tiny Transform Net for Mobile Image Stylization. <b>2017</b> ,	0
1505	A More Efficient CNN Architecture for Plankton Classification. <b>2017</b> , 198-208	1
1504	Hierarchical Hashing for Image Retrieval. <b>2017</b> , 111-125	0
1503	Learning Deep Representation for Place Recognition in SLAM. <b>2017</b> , 557-564	2
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1501	Virtual screening of inorganic materials synthesis parameters with deep learning. <b>2017</b> , 3,	96
1500	Estimation of the Attractiveness of Food Photography Focusing on Main Ingredients. <b>2017</b> ,	3
1499	Spatiotemporal Multi-Task Network for Human Activity Understanding. <b>2017</b> ,	1
1498	Few-shot Learning Using a Small-Sized Dataset of High-Resolution FUNDUS Images for Glaucoma Diagnosis. <b>2017</b> ,	12
1497	Scaling deep learning on GPU and knights landing clusters. <b>2017</b> ,	35
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1495	Detection of Diabetic Retinopathy Based on a Convolutional Neural Network Using Retinal Fundus Images. <b>2017</b> , 635-642	22
1494	User Preferences Analysis Using Visual Stimuli. <b>2017</b> ,	2
1493	An In-depth Performance Characterization of CPU- and GPU-based DNN Training on Modern Architectures. <b>2017</b> ,	28
1492	Learning Social Image Embedding with Deep Multimodal Attention Networks. <b>2017</b> ,	11
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1489	Incremental Accelerated Kernel Discriminant Analysis. <b>2017</b> ,	2
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1487	S-Caffe. <b>2017</b> , 52, 193-205	17
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1485	Improving the Quality of Crowdsourced Image Labeling via Label Similarity. <b>2017</b> , 32, 877-889	13
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1482	ScaleDeep. <b>2017</b> ,	81
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1479	A Holistic Multimedia System for Gastrointestinal Tract Disease Detection. <b>2017</b> ,	7
1478	Malignancy Detection on Mammography Using Dual Deep Convolutional Neural Networks and Genetically Discovered False Color Input Enhancement. <b>2017</b> , 30, 499-505	53

1477	Zero-resource machine translation by multimodal encoder-decoder network with multimedia pivot. <b>2017</b> , 31, 49-64	14
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1474	Identifying spatial relations in images using convolutional neural networks. <b>2017</b> ,	3
1473	Scalable Annotation of Fine-Grained Categories Without Experts. <b>2017</b> ,	8
1472	Weightless neural networks for open set recognition. <b>2017</b> , 106, 1547-1567	15
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1470	Learning to Recognize Objects by Retaining Other Factors of Variation. <b>2017</b> ,	2
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1468	CNN architectures for large-scale audio classification. <b>2017</b> ,	528
1467	A Cloud and Vision-based Navigation System Used for Blind People. <b>2017</b> ,	14
1466	Accelerating Deep Convolutional Networks using low-precision and sparsity. <b>2017</b> ,	55
1465	Improving Right Whale recognition by fine-tuning alignment and using wide localization network. <b>2017</b> ,	2
1464	Exploring texture Transfer Learning for Colonic Polyp Classification via Convolutional Neural Networks. <b>2017</b> ,	10
1463	Nested Invariance Pooling and RBM Hashing for Image Instance Retrieval. <b>2017</b> ,	5
1462	Deep learning for content-based video retrieval in film and television production. <b>2017</b> , 76, 22169-22194	16
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1459	Visual features for context-aware speech recognition. <b>2017</b> ,	9
1458	DeepHash for Image Instance Retrieval. <b>2017</b> ,	12
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1456	Part-based deep representation for product tagging and search. <b>2017</b> ,	
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1454	Visual Classification of Furniture Styles. <b>2017</b> , 8, 1-20	5
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1451	SCEGRAM: An image database for semantic and syntactic inconsistencies in scenes. <b>2017</b> , 49, 1780-1791	18
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1449	Approaching the computational color constancy as a classification problem through deep learning. <b>2017</b> , 61, 405-416	52
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1163	System for Deduplication of Machine Generated Designs from Fashion Catalog. <b>2018</b> , 53-63	
1162	Deep fusion of multi-view and multimodal representation of ALS point cloud for 3D terrain scene recognition. <b>2018</b> , 143, 205-212	24
1161	A hybrid GPU cluster and volunteer computing platform for scalable deep learning. <b>2018</b> , 74, 3236-3263	6
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1154	Unsupervised Deep Hashing with Similarity-Adaptive and Discrete Optimization. <b>2018</b> , 40, 3034-3044	213

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1152	. <b>2018</b> , 20, 1525-1536	10
1151	. <b>2018</b> , 20, 1712-1723	24
1150	. <b>2018</b> , 20, 2126-2137	7
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1148	FVQA: Fact-based Visual Question Answering. <b>2018</b> , 40, 2413-2427	97
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1146	A Robust 3D-2D Interactive Tool for Scene Segmentation and Annotation. <b>2018</b> , 24, 3005-3018	16
1145	Image Aesthetic Distribution Prediction with Fully Convolutional Network. <b>2018</b> , 267-278	3
1144	Co-occurrent Structural Edge Detection for Color-Guided Depth Map Super-Resolution. <b>2018</b> , 93-105	2
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1142	Unsupervised Domain Adaptation for Face Anti-Spoofing. <b>2018</b> , 13, 1794-1809	96
1141	Multimodal analysis of user behavior and browsed content under different image search intents. <b>2018</b> , 7, 29-41	6
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1138	Prediction of Occult Invasive Disease in Ductal Carcinoma in Situ Using Deep Learning Features. <b>2018</b> , 15, 527-534	41
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1133	A novel two-stream saliency image fusion CNN architecture for person re-identification. <b>2018</b> , 24, 569-582	4
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1127	Intelligent Text Processing to Help Readers with Autism. <b>2018</b> , 713-740	0
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1125	Pretraining for Hyperspectral Convolutional Neural Network Classification. <b>2018</b> , 56, 2798-2810	36
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1121	Application of artificial intelligence using a convolutional neural network for detecting gastric cancer in endoscopic images. <b>2018</b> , 21, 653-660	327
1120	Deep Learning Based Pilot Allocation Scheme (DL-PAS) for 5G Massive MIMO System. <b>2018</b> , 22, 828-831	60
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1118	MCIndoor20000: A fully-labeled image dataset to advance indoor objects detection. <b>2018</b> , 17, 71-75	22



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1116	sSketch. <b>2018</b> ,	2
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1098	Image Sentiment Analysis Using Convolutional Neural Network. <b>2018</b> , 464-473	4
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1091	Neural ranking for automatic image annotation. <b>2018</b> , 77, 22385-22406	4
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1084	Drones as collaborative sensors for image recognition. <b>2018</b> ,	3
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1081	Whole-Slide Mitosis Detection in H&E Breast Histology Using PHH3 as a Reference to Train Distilled Stain-Invariant Convolutional Networks. <b>2018,</b>	103
1080	Automatic Segmentation of Acute Ischemic Stroke From DWI Using 3-D Fully Convolutional DenseNets. <b>2018, 37, 2149-2160</b>	91
1079	(DE)\$^2\$CO: Deep Depth Colorization. <b>2018, 3, 2386-2393</b>	12
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1077	Pooling body parts on feature maps for misalignment robust person re-identification. <b>2018,</b>	1
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1075	Mitigating Bystander Privacy Concerns in Egocentric Activity Recognition with Deep Learning and Intentional Image Degradation. <b>2018, 1, 1-18</b>	25
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1073	General labelled data generator framework for network machine learning. <b>2018,</b>	1
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1071	A Deep Spatial Contextual Long-Term Recurrent Convolutional Network for Saliency Detection. <b>2018, 27, 3264-3274</b>	91
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1069	End-to-end cross-modality retrieval with CCA projections and pairwise ranking loss. <b>2018, 7, 117-128</b>	21
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1067	Online Product Quantization. <b>2018, 1-1</b>	10
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1065	Recognition of Visually Perceived Compositional Human Actions by Multiple Spatio-Temporal Scales Recurrent Neural Networks. <b>2018, 10, 1058-1069</b>	11
1064	Minimizing Reconstruction Bias Hashing via Joint Projection Learning and Quantization. <b>2018,</b>	8

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1026	Proposal Flow: Semantic Correspondences from Object Proposals. <b>2018</b> , 40, 1711-1725	34
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1018	Reducing and Stretching Deep Convolutional Activation Features for Accurate Image Classification. <b>2018</b> , 10, 179-186	24
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989	Automated Labeling of Electron Microscopy Images Using Deep Learning. <b>2018,</b>	6
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985	Two-Stream Federated Learning: Reduce the Communication Costs. <b>2018,</b>	26
984	T-SNE-CUDA: GPU-Accelerated T-SNE and its Applications to Modern Data. <b>2018,</b>	25
983	Deflecting Adversarial Attacks with Pixel Deflection. <b>2018,</b>	79
982	Human Action Adverb Recognition: ADHA Dataset and a Three-Stream Hybrid Model. <b>2018,</b>	2
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954	Learning Pixel-Level Semantic Affinity with Image-Level Supervision for Weakly Supervised Semantic Segmentation. <b>2018,</b>	162
953	Image and Text Fusion for Character-Based Breast Cancer Classification. <b>2018,</b>	
952	Revisiting Dilated Convolution: A Simple Approach for Weakly- and Semi-Supervised Semantic Segmentation. <b>2018,</b>	198
951	Recurrent Pixel Embedding for Instance Grouping. <b>2018,</b>	57
950	Real-Time End-to-End Action Detection with Two-Stream Networks. <b>2018,</b>	4
949	UNSUPERVISED SEMANTIC SEGMENTATION OF KIDNEYS USING RADIAL TRANSFORM SAMPLING ON LIMITED IMAGES. <b>2018,</b>	0
948	Adaptive Activation Functions for Skin Lesion Classification Using Deep Neural Networks. <b>2018,</b>	1
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936	Deeply Supervised Residual Network for HEp-2 Cell Classification. <b>2018,</b>	4
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931	Research on Fine-grained Proposed Region Extraction Method Based on Weighted Channel Network. <b>2018,</b>	
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929	Region level Bi-directional Deep Learning Framework for EEG-based Image Classification. <b>2018,</b>	6
928	People, Penguins and Petri Dishes: Adapting Object Counting Models to New Visual Domains and Object Types Without Forgetting. <b>2018,</b>	30
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911	Video Person Re-identification with Competitive Snippet-Similarity Aggregation and Co-attentive Snippet Embedding. 2018,	89
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908	Quantization of Fully Convolutional Networks for Accurate Biomedical Image Segmentation. 2018,	42
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