Paper Title	Author	Cite	Overview	classification	detection	tracking	vehicle	RNN	CNN	compression	reinforcement	autoencoder
Computer Vision and Image Understanding	andreopoulos2013											
Visualizing and Understanding Convolutional Neural Networks	zeiler2014visualizing	1213										
Learning to Track: Online Multi-Object Tracking by Decision Making	xiang2015learning	19										
Convolutional Neural Networks at Constrained Time Cost	he2015convolutional	40										
Accelerating Very Deep Convolutional Networks for Classification and Detection	zhang2015accelerating	14										
Minimizing Computation in Convolutional Neural Networks	cong2014minimizing	11										
Neurocomputing	yang2011											
Transferring Rich Feature Hierarchies for Robust Visual Tracking	wang2015transferring	35										
Exploit All the Layers: Fast and Accurate CNN Object Detector with Scale Dependent Pooling and Cascaded Rejection Classifier	yang2016exploit	6										
Deep Residual Learning for Image Recognition	he2015deep	615										
SqueezeNet: AlexNet-level accuracy with 50x fewer parameters and <0.5MB model size	iandola2016squeezenet	28										
Learning Multi-Domain Convolutional Neural Networks for Visual Tracking	nam2015learning	22										
Region-based Convolutional Networks for Accurate Object Detection and Segmentation	girshick2016region	63										
Fully convolutional networks for semantic segmentation	long2015fully	831										
Recurrent convolutional neural network for object recognition	liang2015recurrent	49										
Large-scale video classification with convolutional neural networks	karpathy2014large	621										
Computer Vision Analysis for Vehicular Safety Applications	wang2015computer	0										
Visual tracking with fully convolutional networks	wang2015visual	35										
Visual tracking: An experimental survey	smeulders2014visual	327										
Episodic Exploration for Deep Deterministic Policies: An Application to StarCraft Micromanagement Tasks	usunier2016episodic	0										
End to End Learning for Self-Driving Cars	bojarski2016end	9										
Perceptual losses for real-time style transfer and super-resolution	johnson2016perceptual	18										
Stacked hourglass networks for human pose estimation	newell2016stacked	10										
XNOR-Net: ImageNet Classification Using Binary Convolutional Neural Networks	rastegari2016xnor	21										
Stacked denoising autoencoders: Learning useful representations in a deep network with a local denoising criterion	vincent2010stacked	1084										
Overfeat: Integrated recognition, localization and detection using convolutional networks	sermanet2013overfeat	956										
Densebox: Unifying landmark localization with end to end object detection	huang2015densebox	7										
An analysis of single-layer networks in unsupervised feature learning	coates2010analysis	804										
Stacked convolutional auto-encoders for hierarchical feature extraction	masci2011stacked	145										
Fast r-cnn	girshick2015fast	427										
Faster R-CNN: Towards real-time object detection with region proposal networks	ren2015faster	390										
Self-taught Learning: Transfer Learning from Unlabeled Data	raina2007self	885										
You only look once: Unified, real-time object detection	redmon2015you	75										
Imagenet classification with deep convolutional neural networks.	krizhevsky2012imagenet	7391										
Very deep convolutional networks for large-scale image recognition.	simonyan2014very	2258										
Spatial pyramid pooling in deep convolutional networks for visual recognition.	he2014spatial	375										
Vehicle detection techniques for collision avoidance systems: A review	mukhtar2015vehicle	17										
Deep Learning of Scene-Specific Classifier for Pedestrian Detection	zeng2014deep	21										
Are we ready for Autonomous Driving? The KITTI Vision Benchmark Suite	geiger2012we	963										
On-Road Vehicle Detection: A Review	sun2006road	956										
Looking at vehicles on the road: A survey of vision-based vehicle detection, tracking, and behavior analysis	sivaraman2013looking	194										
Unsupervised Feature Learning and Deep Learning: A Review and New Perspectives	bengio2012unsupervised	159										
A Large-Scale Car Dataset for Fine-Grained Categorization and Verification	yang2015large	31										
Representation Learning: A Review and New Perspectives	bengio2013representation	1382										
Front Vehicle Blind Spot Translucentization Based on Augmented Reality	lin2013front	1										
Enhancing Vehicular Safety in Adverse Weather using Computer Vision Analysis	lin2014enhancing	1										
Evaluation, Design and Application of Object Tracking Technologies for Vehicular Technology Applications	lin2015evaluation	1										
Recurrent neural network regularization	zaremba2014recurrent	179										
Long-term Recurrent Convolutional Networks for Visual Recognition and Description	donahue2015long	406										
End-to-end people detection in crowded scenes	stewart2015end	18										
First Step toward Model-Free, Anonymous Object Tracking with Recurrent Neural Networks	gan2015first	3										
Learning a Deep Compact Image Representation for Visual Tracking	wang2013learning	140										
Near-Online Multi-target Tracking with Aggregated Local Flow Descriptor	choi2015near	24										
Gated Bi-directional CNN for Object Detection	zeng2016gated	1										
Sequence Modeling: Recurrent and Recursive Nets	book chapter											
Object Detection with Discriminatively Trained Part Based Models	felzenszwalb2010object	4633										
An Empirical Evaluation of Deep Learning on Highway Driving	huval2015empirical	17										
How to Construct Deep Recurrent Neural Networks	pascanu2013construct	125										
RATM: Recurrent Attentive Tracking Model	kahou2015ratm	3										
Inside-Outside Net: Detecting Objects in Context with Skip Pooling and Recurrent Neural Networks	bell2015inside	31										
Learning to Extract Motion from Videos in Convolutional Neural Networks	teney2016learning	3										
Learning to Refine Object Segments	pinheiro2016learning	4										
A MultiPath Network for Object Detection	zagoruyko2016multipath	4										
T-CNN: Tubelets with Convolutional Neural Networks for Object Detection from Videos	kang2016t	2										
Object Detection from Video Tubelets with Convolutional Neural Networks	kang2016object	6										
Recurrent Fully Convolutional Networks for Video Segmentation	valipour2016recurrent	1										
Deep Recurrent Convolutional Networks for Video-based Person Re-identification: An End-to-End Approach	wu2016deep	2										
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DenseCap: Fully Convolutional Localization Networks for Dense Captioning	johnson2015densecap	27	
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Seq-NMS for Video Object Detection	han2016seq	1	
Online Multi-target Tracking using Recurrent Neural Networks	milan2016online	1	
Recurrent Models of Visual Attention	mnih2014recurrent	167	
Online Tracking by Learning Discriminative Saliency Map with Convolutional Neural Network	hong2015online	38	
Online Object Tracking: A Benchmark	wu2013online	885	
Convolutional Features for Correlation Filter Based Visual Tracking	danelljan2015convolutional	8	
MUlti-Store Tracker (MUSTer): a Cognitive Psychology Inspired Approach to Object Tracking	hong2015multi	52	
Once for All: a Two-flow Convolutional Neural Network for Visual Tracking	chen2016once	1	
STCT: Sequentially Training Convolutional Networks for Visual Tracking	wang2016stct	8	
playing atari with deep reinforcement	mnih2013playing	299	
Deeppose: Human pose estimation via deep neural networks	toshev2014deeppose	265	
Unsupervised learning of video representations using lstms	srivastava2015unsupervised	133	
long short term memory	hochreiter1997long	2734	
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Speech recognition with deep recurrent neural networks.	graves2013speech	715	
Imagenet: A large-scale hierarchical image database.	deng2009imagenet	3000	
Return of the devil in the details: Delving deep into convolutional nets	chatfield2014return	598	