2022 年顶会顶刊 Object Detection 论文精选

1. Zoom In and Out: A Mixed-scale Triplet Network for Camouflaged Object Detection
   https://github.com/lartpang/zoomnet
   CVPR 2022

2. Kernelized Few-Shot Object Detection With Efficient Integral Aggregation
   CVPR 2022

3. Salient object detection via integrity learning
   https://github.com/mczhuge/ICON
   T-PAMI

4. Detreg: Unsupervised pretraining with region priors for object detection
   https://github.com/amirbar/detreg
   CVPR 2022

5. Image-adaptive YOLO for object detection in adverse weather conditions
   https://github.com/wenyyu/Image-Adaptive-YOLO
   AAAI 2022

6. Detr3d: 3d object detection from multi-view images via 3d-to-2d queries
   https://github.com/wangyueft/detr3d
   CoRL 2022

7. Deepfusion: Lidar-camera deep fusion for multi-modal 3d object detection
   https://github.com/tensorflow/lingvo
   CVPR 2022

8. Behind the curtain: Learning occluded shapes for 3D object detection
   https://github.com/xharlie/btcdet
   AAAI 2022

9. Implicit motion handling for video camouflaged object detection
   CVPR 2022

10. Few-shot object detection with fully cross-transformer
    https://github.com/guangxinghan/fct
    CVPR 2022

11. Afdetv2: Rethinking the necessity of the second stage for object detection from point clouds
    AAAI 2022

12. RGBT salient object detection: A large-scale dataset and benchmark
    https://github.com/lz118/RGBT-Salient-Object-Detection
    TMM

13. Equalized focal loss for dense long-tailed object detection
    https://github.com/ModelTC/United-Perception
    CVPR 2022

14. DSLA: Dynamic smooth label assignment for efficient anchor-free object detection
    https://github.com/yonghaohe/dsla
    Pattern Recognition

15. Voxel Field Fusion for 3D Object Detection
    https://github.com/dvlab-research/vff
    CVPR 2022

16. Focal Sparse Convolutional Networks for 3D Object Detection
    https://github.com/dvlab-research/focalsconv

17. A survey of self-supervised and few-shot object detection

    https://github.com/gabrielhuang/awesome-few-shot-object-detection

18. A fast accurate fine-grain object detection model based on YOLOv4 deep neural network

19. Poolnet+: Exploring the potential of pooling for salient object detection

20. Learning auxiliary monocular contexts helps monocular 3d object detection

    https://github.com/Xianpeng919/MonoCon

21. 3D object detection for autonomous driving: a survey

    https://github.com/Xianpeng919/MonoCon

22. DAIR-V2X: A Large-Scale Dataset for Vehicle-Infrastructure Cooperative 3D Object Detection

    https://github.com/air-thu/dair-v2x

23. Shape-Adaptive Selection and Measurement for Oriented Object Detection

24. Rethinking pseudo labels for semi-supervised object detection

25. Dimension Embeddings for Monocular 3D Object Detection

26. Self-supervised object detection from audio-visual correspondence

27. Oriented reppoints for aerial object detection

    https://github.com/LiWentomng/OrientedRepPoints

28. M3detr: Multi-representation, multi-scale, mutual-relation 3d object detection with transformers

    https://github.com/rayguan97/M3DETR

29. Iou-balanced loss functions for single-stage object detection

30. Meta faster r-cnn: Towards accurate few-shot object detection with attentive feature alignment

    https://github.com/guangxinghan/meta-faster-r-cnn

31. Active Teacher for Semi-Supervised Object Detection

    https://github.com/jingyang2017/srd_ossl

32. QueryDet: Cascaded sparse query for accelerating high-resolution small object detection

    https://github.com/ChenhongyiYang/QueryDet-PyTorch

33. CE-FPN: enhancing channel information for object detection

    https://github.com/RooKichenn/CEFPN

34. Knowledge distillation for object detection via rank mimicking and prediction-guided feature imitation

35. Deep Learning for Weakly-Supervised Object Detection and Localization: A Survey

36. Imvoxelnet: Image to voxels projection for monocular and multi-view general-purpose 3d object detection

https://github.com/saic-vul/imvoxelnet

37. DESTR: Object Detection with Split Transformer

38. Densely nested top-down flows for salient object detection

https://github.com/new-stone-object/DNTD

39. Fast camouflaged object detection via edge-based reversible re-calibration network

https://github.com/gewelsji/errnet

40. A Dual Weighting Label Assignment Scheme for Object Detection

https://github.com/strongwolf/dw

41. Multi-view correlation distillation for incremental object detection

42. MonoDTR: Monocular 3D Object Detection with Depth-Aware Transformer

https://github.com/kuanchihhuang/monodtr

43. Remote sensing image super-resolution and object detection: Benchmark and state of the art

44. Democracy Does Matter: Comprehensive Feature Mining for Co-Salient Object Detection

https://github.com/siyueyu/dcfm

45. Vpfnet: Improving 3d object detection with virtual point based lidar and stereo data fusion

46. Robust Region Feature Synthesizer for Zero-Shot Object Detection

47. Semantics-guided contrastive network for zero-shot object detection

48. Unknown-Aware Object Detection: Learning What You Don't Know from Videos in the Wild

https://github.com/deeplearning-wisc/stud

49. Consistency-based active learning for object detection

https://github.com/we1pingyu/CALD

50. Speed Up Object Detection on Gigapixel-Level Images With Patch Arrangement