Dataset:

Salient object detection

2020-CVPR-CoSOD http://mftp.mmcheng.net/Papers/20CvprCoSalBenchmark.pdf

2020-JSTSP-360SOD https://ieeexplore-ieee-org.rproxy.insa-rennes.fr/document/8926489

2019-WACV-SESIV https://arxiv.org/abs/1807.01452

2019-ACM-MM-RVSOD https://dl.acm.org/doi/10.1145/3343031.3350882

2019-CVPR-DAVSOD

2018-CVPR-PASCAL-S-Rank https://arxiv.org/pdf/1803.05082.pdf

2018-TIP-VOS

2018-ECCV-SOC

Saliency prediction

2020-TMM-ViewportDependentSalPredict

2019-TPAMI-DHP (Mai XU, et.al.)

2019-arXiv-**DAVE** https://arxiv.org/abs/1905.10693
(https://hrtavakoli.github.io/AVE/)
(https://dl.acm.org/doi/abs/10.1145/3379156.3391337)

2019-CVPR-SVS https://ieeexplore.ieee.org/document/8953191

2018-NIPS-**SpatialAudioSaliency360** https://pedro-morgado.github.io/spatialaudiogen/

2018-CVPR-DHF1K

2018-Salient!360 image/video

2018-ECCV-360Saliency

2018-CVPR-VR-Scene

2018-CVPR-wild360 https://arxiv.org/abs/1806.01320

2017-TVCG-Stanford360

Object detection/segmentation

2020-CVPR(oral)-MultiLabel https://arxiv.org/pdf/2005.08455.pdf

2020-ECCV(submitting)-TransparentObj https://arxiv.org/abs/2003.13948

2020-ECCV(submitting)-ObjNet-Dataset
2020-arXiv-UnderWater https://arxiv.org/abs/2004.01241

2020-arXiv-IDDA https://arxiv.org/abs/2004.08298

2019-arXiv-Indoor360 https://arxiv.org/abs/1910.06138

2019-arXiv-DADA https://arxiv.org/abs/1912.12148

2018-youtubeVOS https://youtube-vos.org/

2018-IJCV-ADE20K http://groups.csail.mit.edu/vision/datasets/ADE20K/

2018-arXiv-CrowdHuman https://arxiv.org/abs/1805.00123

2017-CVPR-CityPerson https://ieeexplore.ieee.org/document/8099957

2016-CVPR-DAVIS https://davischallenge.org/davis2017/code.html

Visual sound

2020-ICASSP-VGGSound http://www.robots.ox.ac.uk/~vgg/data/vggsound/

2020-ICRA-LookListenAct http://avn.csail.mit.edu/

2019-CVPR(oral)-**2.5DVisualSound** http://vision.cs.utexas.edu/projects/2.5D_visual_sound/

Causal/reasoning

2020-ICLR(oral/spotlight)-CLEVRER https://arxiv.org/abs/1910.01442

Other-360-related

2020-CVPR-Depth360Indoor https://svip-lab.github.io/dataset/indoor_360.html

2020-TPAMI-OmniStereoMatch https://ieeexplore-ieee-org.rproxy.insa-rennes.fr/document/9086445

2018-ECCV-SnapAngle360 https://arxiv.org/abs/1804.00126

2018-ACM-MM-VQA-OD https://arxiv.org/abs/1807.10990

2017-CVPR(oral)-sports360 https://arxiv.org/abs/1705.01759

2016-CVPR-S3DIS http://buildingparser.stanford.edu/dataset.html

Other-related:

2020-CVPR(666)-FineGym https://sdolivia.github.io/FineGym/

2020-CVPR(oral)-SKU110K http://chongyangma.com/publications/index.html

2020-CVPR(oral)-camouflageObj

2020-ECCV(submitting)-Holopix50K https://leiainc.github.io/holopix50k/

2020-arXiv-objQA https://arxiv.org/pdf/2005.13116.pdf

Model:

Salient object detection

2020-arXiv-multiTask https://arxiv.org/abs/2004.08595

2020-AAAI-GCPANet https://arxiv.org/abs/2003.00651

2019-CVPR-CPD

2019-CVPR-BASNet

2019-ICCV-SCRN

2019-ICCV-EGNet

2019-CVPR-PoolNet

2018-CVPR-ASNet

Saliency prediction / VQA

2020-AAAI-UVANet https://www.aaai.org/Papers/AAAI/2020GB/AAAI-FuK.2375.pdf

2020-TIP-SKD https://ieeexplore-ieee-org.rproxy.insa-rennes.fr/document/8868103/

2019-ICCV-TASED-Net

2019-CVPR(oral)-VCNN(Mai Xu, et.al.)

2019-BMVC-SalEMA https://arxiv.org/abs/1907.01869

2019-TMM-360SalMapPredict https://ieeexplore.ieee.org/document/8931644

2019-TMM-360Trajectory https://ieeexplore.ieee.org/document/8676384

2018-TCSVT-SMSP https://ieeexplore-ieee-org.rproxy.insa-rennes.fr/document/8374803/

2018-ICMEw-salGan360

2018-TMM-VideoSalGraph https://ieeexplore.ieee.org/abstract/document/8705313

2013-TMM-MultiModalSaliency https://ieeexplore.ieee.org/document/6527322

RGB-D

2020-CVPR(oral)-UCNet

2020-CVPR-JL-DCF

2020-ICRA- 360SD-Net https://arxiv.org/abs/1911.04460

3D reconstruction

2020-CVPR(oral)-2D/3D https://arxiv.org/abs/2004.04180

2020-arXiv-HDDNet https://arxiv.org/abs/2005.05777

Object detection/segmentation

2020-arXiv-SemiSupervisedVideoSeg https://arxiv.org/abs/2005.10266

2020-arXiv-SemanticSeg https://arxiv.org/abs/2005.10821v1

2020-CVPR(oral)-ATSS https://arxiv.org/abs/1912.02424

2020-CVPR(oral)-SceneDeOcclusion https://arxiv.org/abs/2004.02788

2020-CVPR-BlendMask https://arxiv.org/abs/2001.00309

2020-CVPR-CrowdDetection https://arxiv.org/abs/2003.09163

2020-CVPR-ContextPriorSeg https://arxiv.org/abs/2004.01547

2020-arXiv- BiLingUNet https://arxiv.org/abs/2003.12739

2019-CVPR-PanoSeg https://arxiv.org/abs/1801.00868

2019-CVPR-ExtremeNet

2019-CVPR-DELSE

2019-ISNN-GraphFCN https://link.springer.com/chapter/10.1007/978-3-030-22796-8_11

2018-CVPR-DEXTR

2018-CVPR-PANet https://arxiv.org/abs/1803.01534

2018-ICPR-objDetect360 https://ieeexplore.ieee.org/document/8546070

Video processing

2020-CVPR-MEGA https://arxiv.org/pdf/2003.12063.pdf

2020-CVPR-Flow2Stereo https://arxiv.org/abs/2004.02138

2020-CVPR-HomographyEstimate https://arxiv.org/abs/2004.02132

2020-CVPR-MovSceneSeg https://arxiv.org/abs/2004.02678

2020-CVPR-TDNet https://arxiv.org/abs/2004.01800

2019-ICCV-SlowFast
http://openaccess.thecvf.com/content_ICCV_2019/papers/Feichtenhofer_SlowFast_Networks_for_Video_Recognition_ICCV_2019_paper.pdf

Visual sound

2020-CVPR-ListenToLook http://vision.cs.utexas.edu/projects/listen_to_look/

2020-ACL-VSLNet https://arxiv.org/abs/2004.13931

2020-WACV-AlignNet https://jianrenw.github.io/AlignNet/

2020-ECCV(submitting)-(LucVanGool, et al.) https://arxiv.org/abs/2003.04210

2019-ICCV-SeparateSoundOfObjects http://vision.cs.utexas.edu/projects/coseparation/

2019-ICCV-SoundOfMotions https://arxiv.org/abs/1904.05979

2019-ICCV-SoundTrack http://sound-track.csail.mit.edu/

2019-ICASSP-AudioVisualCoSeg https://arxiv.org/abs/1904.09013

2018-ECCV-SoundPixels http://sound-of-pixels.csail.mit.edu/

2018-ECCV-ObjSound https://arxiv.org/abs/1712.06651

2018-CVPR-UnsupervisedLocalizeSound https://arxiv.org/abs/1803.03849

2018-ECCV-AudioVisualEvent

2D CNN plus / CNN for 360

2020-CVPR-tangent360 https://arxiv.org/abs/1912.09390

2020-CVPR-SAOL https://arxiv.org/abs/2004.07570

2020-CVPR-SelfAttention https://arxiv.org/abs/2004.13621

2020-CVPR-SpericalGCN http://www.cs.ucf.edu/~gqi/publications/CVPR2020_rotation.pdf

2020-AAAI-360ViewPortPredict https://www.aaai.org/Papers/AAAI/2020GB/AAAI-WuC.481.pdf

2019-ICML-gaugeEquiCNNs https://arxiv.org/abs/1902.04615

2019-NIPS-**SpericalCNNTheory (Cohen)** http://papers.nips.cc/paper/9114-a-general-theory-of-equivariant-cnns-on-homogeneous-spaces

2019-ICLR-SphericalCNN

2019-ICCV-Omni-SYNTHIA http://openaccess.thecvf.com/content_ICCV_2019/papers/Zhang_Orientation-Aware_Semantic_Segmentation_on_Icosahedron_Spheres_ICCV_2019_paper.pdf

2019-Access-HexagonalCNN

2018-ECCV-SphereNet http://www.cvlibs.net/publications/Coors2018ECCV.pdf

2018-ECCV-SO(3) invarianSphericalCNN https://arxiv.org/abs/1711.06721

2018-ICLR(best)-SphereCNNs https://arxiv.org/abs/1801.10130

Causality in image

2017-CVPR-ICM https://arxiv.org/abs/1605.08179

Capsule

2019-NIPS-Stacked Capsule Autoencoders https://arxiv.org/abs/1906.06818

Face

2020-arXiv-PWC https://arxiv.org/abs/2005.08649

Image processing

2020-arXiv-LowLightEnhance https://arxiv.org/abs/2005.09829v2

Image Synthesis

2020-CVPR-GroupDNet https://arxiv.org/abs/2003.12697

Loss:

2020-CVPR-CIM/RGB-D/SOD

2020-AAAI-F3Net/SOD

Metric:

Salient object detection

2019-IET-ImgProcessing-MultiLevelSaliency https://arxiv.org/abs/2003.08514

2018-IJCAI-EnhancedMeasure

2017-ICCV-StructureMeasure

2014-CVPR-Fbw

Saliency prediction

2020-CVPR-FNAUC https://arxiv.org/abs/2002.10540

2018-arXiv-learnedMetric https://arxiv.org/abs/1806.10257

Object detection

2020-AAAI-**SphIoU** https://www.aaai.org/Papers/AAAI/2020GB/AAAI-ZhaoPengyu.2537.pdf

VQA

2020-arXiv-StructureTextureSimilarity https://arxiv.org/pdf/2004.07728.pdf

Segmentation

Uncertainty-based metric for brain tumor segmentation https://arxiv.org/abs/2005.14262

Review:

2020-DeepAudioVisualLearning https://arxiv.org/abs/2001.04758

2020-arXiv-StereoMatch/RGB-D https://arxiv.org/abs/2004.08566

2020-CVM-VRsurvey https://link.springer.com/article/10.1007/s41095-020-0162-z

2019-arXiv-SODsurvey https://arxiv.org/abs/1904.09146

2019-CVM-SODsurvey https://arxiv.org/abs/1411.5878

2019-TPAMI-SalDeepLearning https://arxiv.org/abs/1810.03716

2015-COMPUTER-GRAPHICS-EyeGaze https://dl.acm.org/doi/10.1111/cgf.12603

Other 360-related:

2019-ElectImg-Complexity360
https://www.ingentaconnect.com/content/ist/ei/2019/00002019/00000012/art00010

2010-ACM-TG-MetricAwareSpherical https://dl.acm.org/doi/10.1145/1882261.1866175

Multi-modal-related:

2020-arXiv-GDT https://arxiv.org/abs/2003.04298

2019-NIPS-CCN https://papers.nips.cc/paper/8804-connective-cognition-network-for-directional-visual-commonsense-reasoning

2019-ICCV-ETATrans https://ieeexplore.ieee.org/document/9008532

2016-NIPS-CoAttention VQA https://arxiv.org/abs/1606.00061

Multi-task-related:

2019-arXiv-12in1 https://arxiv.org/abs/1912.02315

2017-arXiv-an overview https://arxiv.org/abs/1706.05098

Eye-tracking-related:

2020-arXiv-EventBasedTack https://arxiv.org/abs/2004.03577

2020-arXiv-openEDS https://research.fb.com/programs/openeds-challenge/

2020-TIP-GazePredict https://pubmed.ncbi.nlm.nih.gov/32224460/

People-related:

Marc Eder https://www.marceder.com/

Taco Cohen http://ta.co.nl/

Ruohan Gao https://www.cs.utexas.edu/~rhgao/

Hang Zhao http://people.csail.mit.edu/hangzhao/

HanYang CV lab http://cvlab.hanyang.ac.kr/project/omnistereo/

Kede Ma https://kedema.org/

Other-related:

Taco Cohen's speech (favored at YouTube)

DeepMind Self-supervision learning

2011-ACM-MM-IOC

Technical papers favored at WeChat

Cohen's company https://www.qualcomm.com/