

LatexRef	Title	Name	SISR/ MISR	Sensor	Type	Dataset	Model Type	Stand/Norm	Interpolation	Loss	Final Metric	SSIM x4	PSNRx4	Comment	Code
fleet_learning_2014	Learning a deep convolutional network for image super-resolution	SRCNN	SISR	Photo	Linear basic	Set14	4 Layer SR CNN	?	Yes	MSE	PSNR/SSIM	0.72	24.54	Usually not compared	https://github.com
kim_accurate_2016	Accurate image super-resolution using very deep convolutional networks	VDSR	SISR	Photo	Linear basic	Set5, Set10, Set14	based on VGG-net	data in matlab	Yes	Eucl. Dist.	PSNR/SSIM	0.73	27.29		https://github.com
zhang_beyond_2017	Beyond a Gaussian denoiser: Residual learning of deep convolutional denoisers	DnCNN	SISR	Photo	Linear basic	BSD68, Set5	based on SRCNN	matlab	Yes	MSE	PSNR/SSIM	0.73	27.29		https://github.com
zhang_learning_2017	Learning Deep CNN Denoiser Prior for Image Restoration	IRCNN	SISR	Photo	Linear basic	BSD400	CNN	0.255 -> 0..1	Yes	MSE?	PSNR/SSIM				https://github.com
	Accelerating the Super-Resolution Convolutional Neural Network	FSRCNN	SISR	Video	Linear basic	Set5	based on SRCNN	0.255 -> 0..1	No	MSE	PSNR/SSIM	0.71	26.96	implement next?	https://github.com
shi_real-time_2016	Real-Time Single Image and Video Super-Resolution Using a Deep Neural Network	ESPCN	SISR	Video	Linear basic	Im/Video	complex SRCNN w/o image2tensor	(0..1)	No	MAE	PSNR/SSIM				https://github.com
lim_enhanced_2017	Enhanced Deep Residual Networks for Single Image Super-Resolution	EDSR	SISR	Photo	Residual		ResNet	0..1	No	MAE	PSNR/SSIM	0.74	27.71		https://github.com
	FormResNet: Formatted Residual Learning for Image Super-Resolution	FormResNet	SISR	Photo	Res, MultiStage		2x DnCNN trained in s	?	No	MSE	PSNR/SSIM				https://github.com
mao_image_2016	Image Restoration Using Very Deep Convolutional Neural Networks	REDNet	SISR	Photo	Residual	BSD300	UNet	mean/var norm	Yes	MSE	PSNR/SSIM	0.73	27.4	Includes Depth map	https://github.com
tai_image_nodate	Image super-resolution via deep recursive residual networks	DRRN	SISR	Photo	Recursive	Set5, BSD100	3 small nets	?	Yes	MSE	PSNR/SSIM				https://github.com
tong_image_2017	Image Super-Resolution Using Dense Skip Connections	SRDenseNet	SISR	Photo	DCN	URBAN100, Set5	DenseNet	0..1	No	MSE	PSNR/SSIM	0.73	27.53		https://github.com
ledig_photo-realistic	Photo-Realistic Single Image Super-Resolution Using Generative Adversarial Networks	SRGAN	SISR	Photo	GAN	Set5, Set14, Set5A	GAN	LR 0..1, HR -1..1	No	Adversarial, MSE	PSNR/SSIM/MOS	0.74	27.57		https://paperswithcode.com
wang_esrgan_2018	ESRGAN: Enhanced super-resolution generative adversarial networks	ESRGAN	SISR	Photo	GAN	DIV2K, Flickr2K	GAN	?	No	perceptual, adversarial	PSNR/SSIM	0.76	27.85	better visual, worse metrics	https://github.com
razzak_multi-spectral	Multi-Spectral Multi-Image Super-Resolution of Sentinel-2 Imagery	/	MISR	Sen2		PlanetScope	HighRes-net	/	No	MSE & Downsampling	PSNR - Instance Seg			Multi Image	no code
zhang_approach_2018	An Approach To Super-Resolution Of Sentinel-2 Images	S2GAN	SISR	Sen2	GAN	Sen2 HR band	GAN	/	No	adversarial	RMSE, SRE, UIQ, SAM				https://github.com
lanaras_super-resolution	Super-resolution of Sentinel-2 images: Learning a deep generative model	Dsen2	SISR	Sen2	Linear	Sen2 HR band	CNN	?	No	MAE	RMSE, SRE, UIQ, SAM				https://github.com
lu_satellite_2019	Satellite Image Super-Resolution via Multi-Scale Deep Convolutional Neural Networks	MRNN	SISR	WV-2	Residual	SpaceNet satellite	ResNet?	/	No	MSE	PSNR				no code
lai_deep_2017	Deep Laplacian Pyramid Networks for Fast and Accurate Super-Resolution	LapSRN	SISR	Photo	Residual	BSD100	Cascading NN	matlab	No	Charbonnier	PSNR		31.45		https://github.com
deudon_highres-net	HighRes-net: Recursive Fusion for Multi-Frame Super-Resolution	HighRes-net	MISR	PROBA-V	multi	Pr-V HR/LR	EncodeDecode - Shift	predetermined data	No	multiple	cPSNR				https://github.com
li_super-resolution_2018	Super-Resolution Reconstruction of High-Resolution Satellite Imagery	/	MISR	ZY-3	No DL	ZY-3 HR/LR		/	/	/	/				/
wang_ultra-dense_2018	Ultra-dense GAN for satellite imagery super-resolution	udGAN	SISR	Aerial Photo	GAN	Kaggle Aerial	DenseNet	/	No	adversarial					no code
muller_super-resolution	SUPER-RESOLUTION OF MULTISPECTRAL SATELLITE IMAGES	Red30	SISR	Pléiades	Linear	Pléiades	autoencoder	/	No		PSNR, SSIM, FSIM, ISSM			metrics code only	https://github.com
he_spatial-temporal	Spatial-Temporal Super-Resolution of Satellite Imagery	/	MISR	Aerial Photo	No DL	/	/	/	/	/	/				/