Publication and	Technology	Summary
Year		
TSAI, R. (1984)	Multiframe image restoration and registration	Applied and evaluated the ScSR method for improvement of image quality of magnified MR images (T1-weighted, T2-weighted, FLAIR, and DWI images) in16-bit DICOM format
Tom and Katsaggelos (1996)	Reconstruction of a high-resolution image by simultaneous registration, restoration, and interpolation of low-resolution images	Solution is provided to the problem of obtain- ing a high resolution image from several low resolution images that have been subsampled and displaced by dif- ferent amounts of sub- pixel shifts
Welsh, T., Ashikhmin, M., and Mueller, K. (2002)	Transferring color to greyscale images	Introduced a general technique for colorizing greyscale images by transferring color between a source, color image and a destination, greyscale image
Levin, A., Lischinski, D., and Weiss, Y. (2004)	Colorization using optimization	Used quadratic cost function and were able to generate high quality colorizations.

Yatziv, L. and Sapiro, G. (2006)	Fast image and video colorization using chrominance blending	High Quality colorization results are obtained at a fraction of the complexity and computational cost using concepts of luminance-weighted chrominance blending and fast intrinsic distance computations
Qu, Y., Wong, TT., and Heng, PA. (2006)	Manga colorization	Proposed a novel colorization technique that propagates color over regions exhibiting pattern-continuity as well as intensity-continuity
Tola, E., Lepetit, V., and Fua, P. (2008)	A fast local descriptor for dense matching	Introduced a novel local image descriptor designed for dense wide-baseline matching purposes
Goodfellow, I. J., Pouget-Abadie, J., Mirza, M., Xu, B., Warde-Farley, D., Ozair, S., Courville, A., and Bengio, Y. (2014)	Generative Adversarial Networks	Proposed a novel approach of implementing Generative Adversarial Networks using two Neural Networks, viz Generator and Discriminator Networks.

Mirza, M. and Osin-	Conditional generative	Introduced the con-
dero, S. (2014)	adversarial nets	ditional version of
		generative adversarial
		nets, which can be
		constructed by simply
		feeding the data, y,
		to condition on to
		both the generator and
		discriminator
He, K., Zhang, X.,	_	Presented 152 layer
Ren, S., and Sun, J.	for image recognition	using residual learning
(2015)		framework for image
		recognition and an
		adaptive edge detec-
		tion based colorization
		algorithm and its
		applications.
Long, J., Shelhamer,	Fully convolutional	Showed that convo-
E., and Darrell, T.	networks for semantic	lutional networks by
(2015)	segmentation	themselves, trained
		end-to-end, pixels-
		to-pixels, improve
		on the previous best
		result in semantic
C: I/ 1/7:	77 1 1	segmentation.
Simonyan, K. and Zis-	Very deep convolu-	Investigated the effect
serman, A. (2015)	tional networks for	of the convolutional
	large-scale image	network depth on its
	recognition	accuracy in the large-
		scale image recognition
Change 7 Variation	Doon Coloniastiss	setting The paper presented
Cheng, Z., Yang, Q.,	Deep Colorization	The paper presented
and Sheng, B. (2016)		a fully-automatic col-
		orization method using
		deep neural networks

Dahl, R. (2016)	Automatic Coloriza- tion	automatically produce multiple colorized ver-
	01011	sions of a grayscale im-
		age
Radford, A., Metz, L., and Chintala, S. (2016)	Unsupervised representation learning with deep convolutional generative adversarial networks	Introduced a class of CNNs called deep con- volutional generative adversarial networks (DCGANs), that have certain architec- tural constraints, and demonstrate that they are a strong candi-
		date for unsupervised learning
Ledig, C., Theis, L., Huszar, F., Caballero, J., Cunningham, A., Acosta, A., Aitken, A., Tejani, A., Totz, J., Wang, Z., and Shi, W. (2017)	Super Resolution using GAN	Photorealistic single image super-resolution using a generative adversarial network.
Isola, P., Zhu, JY., Zhou, T., and Efros, A. A. (2018)	Image-to-image translation with conditional adversarial networks	Pix2Pix is a Conditional-GAN with images as the conditions for colorization.

Zhu,	J	Generative visual ma-	Defined a class of im-
Y.,Krähenbühl,	P.,	nipulation on the nat-	age editing operations
Shechtman, E., as	nd	ural image manifold	after learning natural
Efros, A. A. (2018)			image manifold from
			data using generative
			adverserial neural net-
			works, and constrain
			their output to lie on
			that learned manifold
			at all times