

Gagan Kanojia

Research Engineer II, OLA Electric Mobility Pvt. Ltd.

CONTACT INFORMATION	T-2, 401, 17th D Main Rd, 5th block, Koramangala, Bengaluru, Karnataka, 560095	☎ (+91) 9173165219 ✉ gagan.kanojia1@gmail.com 🐙 gagankanojia.github.io
EDUCATION	Indian Institute of Technology Gandhinagar <i>Ph.D., Electrical Engineering</i> Advisor: Dr. Shanmuganathan Raman CPI : 9.39/10	May 2015 - June 2020
	Indian Institute of Technology Gandhinagar <i>B.Tech., Electrical Engineering with Minor in Computer Science</i> CPI : 7.72/ 10	2010-2014
	Kendriya Vidyalaya No.4, Gwalior (M.P.) High School Certificate (CBSE) 85.4%	2009
	Khushal Vidya Peeth, Gwalior (M.P.) Secondary School Certificate (CBSE) 85%	2007
WORK EXPERIENCE	OLA Electric Mobility Pvt. Ltd. <i>Research Engineer II</i> I mainly work on computer vision related problems which involve monocular videos and require computationally efficient solutions.	August 2020 - Present
	eClerx Services Limited <i>Senior Software Engineer</i>	May 2014 - May 2015
RESEARCH INTERESTS	My research interests lie in Deep Learning, Computer Vision, and Image Processing . During my Ph.D., I worked on problems which involve moving objects present in videos or images captured from different view-points. I am actively working with deep neural networks for images, videos, and image sequences. I have worked on a variety of computer vision related problems like action recognition, dynamic object detection, image sequencing, and image segmentation. I also like to explore the advantages of using multiple images of a scene over a single image in different scenarios.	
AWARDS	TCS Research Scholarship	July 2016 - July 2020
	Best Paper Runner-up Awarded for “Exploring Temporal Differences in 3D Convolutional Neural Networks.” at National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG), 2019	December 2019
	The Spot Award Awarded for demonstrating excellence in the assigned tasks at eClerx Services Ltd.	September 2014
TECHNICAL SKILLS	Programming Languages: C, C++, Python, MATLAB Libraries and Scripts: PyTorch, Tensorflow, OpenCV, Numpy	

PUBLICATIONS

Gagan Kanojia, and Shanmuganathan Raman. “Learning to Sort Image Sequences via Accumulated Temporal Differences.” [Under review in IEEE Transactions on Image Processing]

Sudhakar Kumawat, **Gagan Kanojia**, and Shanmuganathan Raman. “Shuffleblock: Shuffle to regularize convolutional neural networks.” [Under review in IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2021]

Gagan Kanojia, and Shanmuganathan Raman. “Simultaneous Detection and Removal of Dynamic Objects in Multi-view Images.” In Winter Conference on Applications of Computer Vision (WACV), 2020.

Gagan Kanojia, and Shanmuganathan Raman. “MIC-GAN: Multi-view assisted Image Completion using Conditional Generative Adversarial Networks.” In Twenty Sixth National Conference on Communications (NCC), 2020.

Gagan Kanojia, Sudhakar Kumawat, and Shanmuganathan Raman. “Exploring Temporal Differences in 3D Convolutional Neural Networks.” In National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG), 2019. (**Best Paper Runner-up Award**)

Gagan Kanojia, Sudhakar Kumawat, and Shanmuganathan Raman. “Attentive spatio-temporal representation learning for diving classification.” In IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 2019.

Gagan Kanojia, and Shanmuganathan Raman. “DeepImSeq: Deep image sequencing for unsynchronized cameras.” In Pattern Recognition Letters 117 (2019): 9-15.

Gagan Kanojia, and Shanmuganathan Raman. “Patch-based detection of dynamic objects in CrowdCam images.” In The Visual Computer 35.4 (2019): 521-534.

Gagan Kanojia, and Shanmuganathan Raman. “Postcapture focusing using regression forest.” In IEEE Signal Processing Letters 24.6 (2017): 751-755.

Gagan Kanojia, Sri Raghu Malireddi, Sai Chowdary Gullapally, and Shanmuganathan Raman. “Who Shot the Picture and When?.” In International Symposium on Visual Computing, pp. 438-447. Springer, Cham, 2014.

Gagan Kanojia, and Shanmuganathan Raman. “FacialStereo: Facial depth estimation from a stereo pair.” In Computer Vision Theory and Applications (VISAPP), 2014 International Conference on, vol. 3, pp. 686-691. IEEE, 2014.