Gagan Kanojia
Research Engineer II, OLA Electric Mobility Pvt. Ltd.

CONTACT INFORMATION

T-2, 401, 17th D Main Rd, 5th block,
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EDUCATION

Indian Institute of Technology Gandhinagar May 2015 - June 2020
Ph.D., Electrical Engineering
Advisor: Dr. Shanmuganathan Raman
CPI : 9.39/10

Indian Institute of Technology Gandhinagar 2010-2014
B.Tech., Electrical Engineering with Minor in Computer Science
CPI : 7.72/ 10

Kendriya Vidyalaya No.4, Gwalior (M.P.) 2009
High School Certificate (CBSE) 85.4%

Khushal Vidya Peeth, Gwalior (M.P.) 2007
Secondary School Certificate (CBSE) 85%

WORK EXPERIENCE

OLA Electric Mobility Pvt. Ltd. August 2020 - Present
Research Engineer II
At OLA Electric, I mainly work on computer vision related problems which involve monocular videos and require computationally efficient solutions. Two patent applications based on my works done here are under preparation.

eClerx Services Limited May 2014 - May 2015
Senior Software Engineer

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 **image classification, action recognition, dynamic object detection, image sequencing, image segmentation,** and **depth estimation**. 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 December 2019
Awarded for "Exploring Temporal Differences in 3D Convolutional Neural Networks." at National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG), 2019

The Spot Award September 2014
Awarded for demonstrating excellence in the assigned tasks at eClerx Services Ltd.

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." [To be submitted]

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.