Gagan Kanojia
Ph.D. Candidate, IIT Gandhinagar

CONTACT INFORMATION

F-215, IIT Gandhinagar, Palaj Campus,
Gandhinagar, Gujarat, 382355

☎ (+91) 9173165219
✉ gagan.kanojia1@gmail.com
🌐 gagankanojia.github.io

EDUCATION

Indian Institute of Technology Gandhinagar — May 2015 - Present
Ph.D. Candidate in Electrical Engineering
Supervisor: Prof. Shanmuganathan Raman
CPI : 9.39/10

Indian Institute of Technology Gandhinagar — 2010-2014
B.Tech. in 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

eClerx Services Limited — May 2014 - May 2015
Worked as a Senior Software Engineer

RESEARCH INTERESTS

My research interests lie in Computer Vision, Deep Learning and Computational Photography. My Ph.D. thesis is related to dealing with dynamic objects present in image sequences captured from same or different view-points. I am actively working with deep neural networks for videos and image sequences. I have experience of working with convolutional neural networks, recurrent neural networks, and generative adversarial networks. In my research works, I utilize the information provided by the moving regions present in videos or multi-view image sequences to solve problems like action recognition, dynamic object detection, and image sequencing. I also explore the advantages of using multiple images of a scene over a single image.

AWARDS

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

TCS Research Scholarship — July 2016 - Present

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

TECHNICAL SKILLS

Programming Languages: C, Python, MATLAB
Libraries and Scripts: PyTorch, OpenCV, Numpy
APIs: OpenMP

Publications

Gagan Kanojia, and Shanmuganathan Raman. "Learning to Sort Image Sequences via Accumulated Temporal Differences." [Under review in IEEE International Conference on Computational Photography 2020]

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.