Tarun Kalluri

Email: tarun.05.kalluri at gmail.com

Google Scholar | LinkedIn | Webpage | GitHub

Research Interest

Computer Vision, Deep Learning. Specially interested in improving fairness and robustness in deep learning.

Education

Fall 2019 -	PhD in Computer Science , **UC San Diego**. Area: Computer Vision & Machine learning Advisor: Dr. Manmohan Chandraker	GPA:**3.9/4.0**
2012-2016	B-Tech, **Indian Institute of Technology** (I.I.T.), Guwahati. Major in Electronics and Communication Engineering (ECE) Minor in Computer Science and Engineering (CSE) *Thesis*: Stochastic Energy Modeling in Wireless Networks [pdf]	GPA:**9.03/10.0**

Experience

Summer 2020	*Summer Research Intern, Facebook AI, Menlo Park.* Mentor: Dr. Du Tran, Dr. Deepak Pathak
2017-2019	*Research Fellow, CVIT Lab, IIIT Hyderabad* Mentor: Dr. Jawahar C.V, Dr. Girish Varma
2016-17	*Data Scientist, Oracle India Pvt. Ltd., Bengaluru*

Publications

- Kalluri, T., Pathak, D., Chandraker, M., Tran, D., *FLAVR: Flow-Agnostic Video Representations for Fast Frame Interpolation. preprint*, 2020 [pdf]
- Kalluri, T., Varma, G., Chandraker, M., Jawahar, C.V.. *Universal Semi-supervised semantic segmentation. ICCV, 2019.* [pdf]
- Kalluri, T.* , Misra, A.*, Sudhir, K.*, Varma, G., Anbumani, S., Chandraker, M., Jawahar, C.V.. *Semantic Segmentation Datasets for Resource Constrained Training*, In NCVPRIPG, 2019. **[Oral]**
- Pattnaik, P., Raghunathan, S., Kalluri, T., Bhimalapuram, P., Jawahar, C. V., Priyakumar, U. D. (2020). Machine Learning for Accurate Force Calculations in Molecular Dynamics Simulations. The Journal of Physical Chemistry A, 124(34), 6954-6967. [pdf]
- Kalluri, T., & Bohara, V. A. (2016, June). *Regenerative relaying in energy harvesting cognitive radio networks.* In Networks and Communications (EuCNC), 2016 European Conference on. [pdf]
- Kalluri, T., Peer, M., Bohara, V. A., & Dias, U. S. (2018). *Cooperative spectrum sharing-based relaying protocols with wireless energy harvesting cognitive user.* IET Communications, 12(7). [pdf]

Coursework

Graduate Level: Probabilistic Graphical Models, Advanced Computer Vision, Convex Optimization, Online Learning, Probabilistic Unsupervised Learning.
Undergraduate Level: Probability and Random Processes, Pattern Recognition and Machine Learning, Game Theory and Economics, Queuing Systems, Topics in Information Theory

Professional Service

- **Member**: PhD admissions student committee at UCSD, 2020
- **Reviewer**: IROS, 2020
- **Teaching Assistant**: CSE291: Domain Adaptation for Computer Vision at UCSD, Winter 2021.

Awards and Honors

- Recipient of IPE PhD fellowship (link) 2020-21 for contribution towards practical ethics in AI.
- Ranked 116 in EAMCET entrance exam and 2055 in JEE entrance exam in 2012, out of more than 1 million students who appeared for both the exams.
- Winner of SMS Classification Challenge, and Video Action Recognition challenge at Samsung R&D Hackathon in Bengaluru. Also participated in Microsoft DeepLearning hackathon on Author Identification at Hyderabad in Dec 2017.
- Selected to participate in the Machine Learning Summer School (MLSS) conducted at IIIT-Hyderabad in July 2018 focusing on advances in modern AI. Awarded cash prize for standing among the best performing participants.
- Active Participant in various online competitions in Deep Learning including Kaggle, and active contributor to open source research.

Talks

1. Domain adaptation for urban scene understanding, *Augmented Reality and Self-Driving workshop*, Qualcomm San Diego, June 2020.
2. Cross Task Adaptation for semantic segmentation, *Pixel Cafe*, UCSD, May 2020.
3. Universal Semi-supervised Semantic Segmentation, *Pixel Cafe*, UCSD, Nov 2019.