Tarun Kalluri

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Research Interest

Computer Vision, Deep Learning, Statistical Learning.

Education

Fall 2019 -	PhD in Computer Science , **UC San Diego**. Area: Computer Vision & Machine learning Advisor: Dr. Manmohan Chandraker	
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

2017-2019 *Research Fellow, CVIT Lab, IIIT Hyderabad*

- Worked on application level problems in deep learning and computer vision.
- Developed algorithm for learning efficient and shareable universal representations from urban scenes useful in semantic segmentation.
- Worked on a project to predict molecular force fields and particle trajectory using machine learning.

2016-17 *Data Scientist, Oracle India Pvt. Ltd., Bengaluru*

- Part of the SaaS automation team. Built an end-to-end automation tool *Spyder* to monitor client side database upgrade and down time by statistically analyzing error logs.

Publications

JRNL01 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]

CONF03 Misra, A., Sudhir, K., Kalluri, T. , Varma, G., Anbumani, S., Chandraker, M., Jawahar, C.V.. In 7th National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics, 2019. **[Oral]**

CONF02 Kalluri, T., Varma, G., Chandraker, M., Jawahar, C.V.. Universal Semi-supervised semantic segmentation. *ICCV, 2019.* [pdf]

CONF01 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]

Coursework

Graduate Level: Probabilistic Graphical Models.
Undergraduate Level: Probability and Random Processes, Pattern Recognition and Machine Learning, Game Theory and Economics, Queuing Systems, Topics in Information Theory
[Relevant] Online Courses: Convolutional Neural Networks [CS231 by Stanford], Natural Language Processing [CS224 by Stanford], Linear Algebra [MIT18.06]

Awards and Honors

- Won the SMS Classification Challenge, participated in the 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.
- Active Participant in various online competitions in Deep Learning including Kaggle, and active contributor to open source research.
- Highly proficient in Python, C++, bash scripting and deep learning packages like Tensorflow, PyTorch and Keras.