

Tarun Kalluri

Google Scholar | LinkedIn | Webpage | Email: sskallur@eng.ucsd.edu

RESEARCH INTEREST

Computer Vision, Deep Learning, Statistical Learning.

EDUCATION

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|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 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)
<i>Thesis</i> : Stochastic Energy Modeling in Wireless Networks [pdf] | GPA: 9.03/10.0 |

EXPERIENCE

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|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2017-2019 | <i>Research Fellow, CVIT Lab, IIIT Hyderabad</i> <ul style="list-style-type: none">• 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 | <i>Data Scientist, Oracle India Pvt. Ltd., Bengaluru</i> <ul style="list-style-type: none">• Part of the SaaS automation team. Built an end-to-end automation tool <i>Spyder</i> to monitor client side database upgrade and down time by statistically analyzing error logs. |

PUBLICATIONS

- Kalluri, T., Varma, G., Chandraker, M., Jawahar, C.V.. *Universal Semi-supervised semantic segmentation. ICCV, 2019.* [pdf]
- Misra, A., Sudhir, K., Kalluri, T. , Varma, G., Anbumani, S., Chandraker, M., Jawahar, C.V.. *Semantic Segmentation Datasets for Resource Constrained Training*, In NCVPRIPG, 2019. [**Oral**]
- 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.

Undergraduate Level: Probability and Random Processes, Pattern Recognition and Machine Learning, Game Theory and Economics, Queuing Systems, Topics in Information Theory, Image Processing and Computer Vision

[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.