

Tarun Kalluri

Google Scholar | LinkedIn | Webpage

Email: tarun.05.kalluri *at* gmail

PHONE: (+91)-8473994853

EDUCATION

- | | |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2019 - | PhD, CSE , UC San Diego.
Area: Vision and learning
Advisor: Dr. Manmohan Chandraker |
| 2012-16 | B-Tech, ECE, , Indian Institute of Technology (I.I.T.), Guwahati. 9.03/10.0
<i>Minor in Computer Science and Engineering (CSE)</i>
<i>Thesis</i> [pdf]: Stochastic Energy Modeling in Wireless Networks |

EXPERIENCE

- | | |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2017-2019 | <i>Research Assistant, CVIT Lab, IIIT Hyderabad</i>
Worked on application level problems in deep learning and computer vision. |
| 2016-17 | <i>Data Scientist, Oracle India Pvt. Ltd., Bengaluru</i>
Worked with SaaS Q&A 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. |

RESEARCH PROJECTS

- | | |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sep '17 - Present | Universal Semi-supervised Semantic Segmentation
<i>Guide: Dr. Manmohan Chandraker, UCSD and Dr. CV Jawahar, IIIT-Hyderabad</i>
Project involved learning segmentation models by aggregating knowledge from multiple driving datasets with special focus on improving the state-of-the art performance of autonomous driving on Indian roads. |
| Oct '17 - Present | Physical Force Field Approximation Using Deep Learning [Poster]
<i>Guide: Dr. CV Jawahar ,IIIT-Hyderabad</i>
This project aims to automatically calculate and calibrate inter molecular forces in regular objects using data-driven deep learning techniques. |

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** Kalluri, T., Varma, G., Chandraker, M., Jawahar, C.V.. Universal Semi-supervised semantic segmentation. *ICCV, 2019*. [arxiv]
- CONF02** 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]
- CONF01** Peer, M., Kalluri, T., Bohara, V. A., da Costa, D. B., & Dias, U. S. (2017, April). A time-splitting cooperative spectrum sharing amplify-and-forward relaying protocol with energy harvesting cognitive user. In *Wireless and Microwave Technology Conference (WAMICON), 2017 IEEE 18th* (pp. 1-6). IEEE. [pdf]

RELEVANT COURSES | DETAILED CURRICULUM

- Pattern Recognition and Machine Learning*
- Computer Vision*
- Image Processing*
- Probability and Random Processes
- Game Theory and Economics*
- Deep Learning for Computer Vision (MOOC, CS231 by Stanford Univ.)
- Data Structures and Algorithms
- Digital Signal Processing*
- Queuing Systems*
- Topics in Information Theory*
- Linear Algebra(Mathematics I)*
- Natural Language Processing (MOOC, CS224 by Stanford Univ.)

*Obtained AA/AS

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.