TARUN KALLURI

EBU3B#4150, Dept. of Computer Science and Engineering, UC San Diego, La Jolla, CA 92093

Webpage | Google Scholar | LinkedIn | sskallur@eng.ucsd.edu | Ph: +1 8587525074

RESEARCH INTERESTS

- **Label Efficient Learning:** Self/semi/weakly-supervised learning and learning with noisy labels.
- **Domain Adaptation:** Domain adaptation, Transfer Learning.
- **Trustworthy ML:** Fairness, interpretability and robustness in AI.

EDUCATION

Ph.D. Student in Computer Science, UC San Diego La Jolla, CA, USA *Sep.2019 - Present*
- **Overall GPA:** 3.9/4.0

B.Tech. in Indian Institute of Technology (I.I.T.) Guwahati, India *July.2012 - May.2016*
- Major in Electronics and Communication (ECE), Minor in CSE.
- **Overall GPA:** 9.03/10

PUBLICATIONS

1. **MemSAC: Memory Augmented Sample Consistency for Large-Scale Domain Adaptation**. **Tarun Kalluri**, Astuti Sharma, Manmohan Chandraker. **ECCV, 2022.**
2. **Cluster-to-adapt: Few Shot Domain Adaptation for Semantic Segmentation across Disjoint Labels** , **Tarun Kalluri**, Manmohan Chandraker. **L3D-VIU Workshop, CVPR, 2022.**
3. **FLAVR: Flow-Agnostic Video Representations for Fast Frame Interpolation**. **Tarun Kalluri**, Deepak Pathak, Manmohan Chandraker, Du Tran. **arxiv, 2021.**
4. **Instance Level Affinity Based Transfer for Unsupervised Domain Adaptation** Astuti Sharma, **Tarun Kalluri**, Manmohan Chandraker. **CVPR, 2021.**
5. **Universal Semi-supervised Semantic Segmentation**. **Tarun Kalluri**, Girish Varma, Manmohan Chandraker, Jawahar, C.V. **ICCV, 2019.**
6. **Semantic Segmentation Datasets for Resource Constrained Training**. **Tarun Kalluri** , Ashutosh Misra*, Sudhir Kumar, Girish Varma, Anbumani Subramanian, Manmohan Chandraker, Jawahar, C.V. In **NCVPRIPG 2019**. [Oral]
7. **Machine Learning for Accurate Force Calculations in Molecular Dynamics Simulations**. Punyaslok Pattnaik, Shampa Raghunathan, **Tarun Kalluri**, Prabhakar Bhimalapuram, Jawahar, C. V., Deva Priyakumar. **The Journal of Physical Chemistry A, 2020**.

RESEARCH INTERNSHIPS & INDUSTRY EXPERIENCE

- **Facebook AI Research**, Menlo Park, CA, USA *Jun. 2021 - Sep. 2021*
  Unidentified Object Segmentation
  Research Intern - Du Tran
  - Robust and open world instance segmentation.
- **Facebook AI Research**, Menlo Park, CA, USA *Jun. 2020 - Sep. 2020*
  Video Frame Interpolation
  Research Intern - Du Tran, Deepak Pathak

- Fast and efficient video frame interpolation technique, without requiring any flow or depth information.

- **Applied Research Labs**, IIIT Hyderabad, India *Sep. 2017 - Aug. 2019*
  Semi-supervised Semantic Segmentation
  Research Intern - Prof. CV Jawahar
  - Semi-supervised learning for semantic segmentation on diverse datasets, like road scenes from India and Europe using a novel feature alignment module.

- **Oracle India Pvt. Ltd.**, Bengaluru, India *July. 2016 - Aug. 2017*
  Applied Data Scientist - SaaS Provisioning
  - Server technology team, with special focus on fusion application provisioning.
  - Developed *Spyder*, an automation tool for diagnosis of large scale cloud instance provisioning, upgrade and patching.

TALKS & PRESENTATIONS

- **Domain adaptation for urban scene understanding**, *Augmented Reality and Self-Driving workshop*, Qualcomm San Diego, June 2020.
- **Domain adaptation for urban scene understanding**, *SIAM Conference on Computational Science and Engineering*, March 2021.

ACADEMIC SERVICE

- **Reviewer:** ICLR 2022, CVPR 2022, ECCV 2022, AAAI 2022, NeurIPS 2022, TMLR, Pattern Recognition Journal.

HONORS & AWARDS

- Selected as highlighted reviewer at ICLR 2022. *2022*
- Recipient of IPE PhD fellowship (link) 2020-21 for contribution towards practical ethics in AI. *2021*

SKILLS

- **Programming Language:** MATLAB, C++, Python, Verilog, VHDL.
- **Software and Platforms:** TensorFlow, PyTorch, OpenCV.