Suriya Singh

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EDUCATION

MS in Computer Science (8.67 / 10) *2013 - 2016*
IIIT Hyderabad, India
Specialization: Computer Vision and Machine Learning
Advisors: Dr. Chetan Arora and Prof. C.V. Jawahar
Thesis Title: First Person Action Recognition

B.Tech in Computer Science and Engineering (8.55 / 10) *2008 - 2012*
Lovely Professional University (LPU), India

PUBLICATION

Journal:

[1] Suriya Singh, Chetan Arora, and C.V. Jawahar. Trajectory Aligned Features For First Person Action Recognition. *Pattern Recognition 2017.*

Conferences:

[2] Bharat Bhatnagar, Suriya Singh, Chetan Arora, and C.V. Jawahar. Unsupervised Learning of Deep Feature Representation for Clustering Egocentric Actions. *IJCAI 2017, Melbourne, Australia.* **(Oral)**

[3] Suriya Singh, Chetan Arora, and C.V. Jawahar. First Person Action Recognition Using Deep Learned Descriptors. *CVPR 2016, Las Vegas, USA.*

[4] Suriya Singh, Chetan Arora, and C.V. Jawahar. Generic Action Recognition from Egocentric Videos. *NCVPRIPG 2015, Patna, India.* **(Oral)**

[5] Mohak Sukhwani, Suriya Singh, Anirudh Goyal, Aseem Behl, Pritish Mohapatra, Brijendra Kumar Bharti, and C. V. Jawahar. Monocular Vision based Road Marking Recognition for Driver Assistance and Safety. *ICVES 2014, Hyderabad, India.* **(Oral)**

[6] Suriya Singh, Shushman Choudhury, Kumar Vishal, and C.V. Jawahar. Currency Recognition on Mobile Phones. *ICPR 2014, Stockholm, Sweden.*

RESEARCH EXPERIENCE

Research Intern *Aug, 2017 -*
Applied Research Lab, IIIT Hyderabad
Team: Anil Batra (CVIT), Guan Pang (FAIR), Manohar Paluri (FAIR), Prof. C.V. Jawahar (CVIT), and Prof. Lorenzo Torresani (FAIR)
Self-supervised initialization for semantic segmentation of overhead imagery.

Research Intern *Nov, 2016 - May, 2017*
Xerox Research Centre Europe, Grenoble, France
Advisors: Diane Larlus and Jakob Verbeek
Learning network architecture and representations using Convolutional Neural Fabrics.

Research Assistant *Aug, 2013 - Nov, 2016*
CVIT, IIIT Hyderabad, India

Summer Intern *Apr, 2013 - July, 2013*
CVIT, IIIT Hyderabad, India
Advisor: Prof. C.V. Jawahar
Optimizing image retrieval framework for low-end mobile devices.

TEACHING AND MENTORING

Teaching Assistant (Computer Vision), IIIT Hyderabad *Spring 2016*
Course Instructor: Dr. Anoop M. Namboodiri

Teaching Assistant (Operating System), IIIT Sri City *Monsoon 2014*
Course Instructor: Dr. Anand Mishra

Under-graduate Mentoring (co-supervised with Prof. C.V. Jawahar)

- Abinaya Seenivasan (TCE): Porting Currency Recognition App to iOS.
- Priyanka Kulshrestha (SVNIT): Annotation tool for tracking players in soccer videos.
- Krishna Tulsyan and Romil Aggarwal (IIIT Hyderabad): Egocentric video summarization and indexing.
- Bhakti Priya Shridhar and Anuj Rathore (IIIT Hyderabad): Low cost multi-sensor hardware design for assisstive applications (gesture and sign language interpreter).

OTHER EXPERIENCE

Reviewer: ICVES17, TCSVT17, ACCV16, ICMR15, ICME15, Robotics and Autonomous Systems.

Volunteer/Organizer: Prepared study materials, practical exercises and conducted lab sessions for "Summer School on Deep Learning for Computer Vision" at CVIT.

Tutorials:

- One day session on Mobile Vision at IIIT Hyderabad.
- A three-day session on Android Programming at IIIT Sri City.

Presentations/Demo:

- *First Person Actions* at Amazon India Artificial Intelligence Summit 2017.
- *Mobile Vision* at STEP 2015 and R&D Showcase 2014 and 2015, IIIT Hyderabad.

AWARDS AND SCHOLARSHIP

Microsoft Research Travel Grant	*2016*
Google India Travel Grant	*2016*
LPU Scholarship for Merit Students	*2008 - 2010*
Outstanding Performance in CBSE SSC Mathematics Exam	*2006*

SKILLSET

Programming Languages	C, C++ and Python
Web Technologies	HTML, JavaScript and PHP
Operating System	Linux, Windows
Other	Caffe, Keras, PyTorch, OpenCV, MATLAB, VLFeat, LaTeX, Bash

REFERENCES

Will be provided on request.