Yashas **Annadani**

MASTER'S STUDENT · ETH ZÜRICH

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Education

ETH Zürich   *Zürich, Switzerland*

M.SC IN ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY   *Sep. 2018 - Exp. Jun. 2020*

- Specialization in *Signal Processing and Machine Learning*

National Institute of Technology - Karnataka (NITK)   *Surathkal, India*

B.TECH IN ELECTRICAL AND ELECTRONICS ENGINEERING   *Aug. 2013 - Jun. 2017*

- CGPA: 9.21/10.0 (Rank 3 out of 105)

SBM Jain College   *Bengaluru, India*

PRE-UNIVERSITY EDUCATION   *Aug. 2011 - Jun. 2013*

- CGPA/Percentage: 93.5%

Publications

1. **Yashas Annadani** and Soma Biswas. **Preserving Semantic Relations for Zero-Shot Learning**. In *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018.

2. Devraj Mandal, **Yashas Annadani** and Soma Biswas. **GrowBit: Incremental Hashing for Cross-Modal Retrieval**. In *Asian Conference on Computer Vision (ACCV)*, 2018.

3. **Yashas Annadani** and C.V. Jawahar. **Augment and Adapt: A Simple Approach to Image Tampering Detection**. In *IEEE International Conference on Pattern Recognition (ICPR)*, 2018.

Preprint

1. **Yashas Annadani**, D. L. Rakshith and Soma Biswas. **Sliding Dictionary Based Sparse Representation For Action Recognition**. arXiv preprint *arXiv:1611.00218*, 2016.

Research Experience

CVIT, IIIT Hyderabad   *Hyderabad, India*

RESEARCH FELLOW   *Aug. 2017 - May 2018*

- Worked on image tampering detection in images containing objects and scenes.
- Proposed a method to augment the tampered images using inpainting and compositing schemes. Obtained state-of-the-art results on image tampering detection by training a convolutional neural network using domain adaptation on the augmented images.
- This work resulted in a publication at ICPR, 2018.

Indian Institute of Science   *Bengaluru, India*

VISITING RESEARCHER   *May 2017 - Jul. 2017*

- Worked on zero-shot object classification in images.
- Proposed a method for zero-shot classification by focusing on efficient utilization of the structure of attribute space.
- This work resulted in a publication at CVPR, 2018.

INRIA   *Nice, France*

RESEARCH INTERN   *May 2016 - Aug. 2016*

- Worked on action recognition using RGB and depth data.
- Implemented a siamese convolutional network in which one stream was for RGB and the other for depth.
- Motion features were obtained through LSTM appended to the RGB part of the network. Compact bilinear pooling was used to aggregate outputs over time. Finally, the RGB motion feature stream was fused with static depth feature stream for classification.

Indian Institute of Science   *Bengaluru, India*

SUMMER RESEARCH INTERN   *May 2015 - Jul. 2015*

- Worked on action recognition using 3d skeletal joints obtained from the kinect sensor.
- Proposed a sliding window based dictionary learning paradigm wherein each sliding window had different sparsities while maintaining temporal evolution.
- Experiments conducted on 4 standard publicly available datasets yielded competitive results.

Honors & Awards

2016	**Mitacs Globalink Scholarship**, Offered to carry out research internship in Canada (Declined).	
2015	**Chosen Representative for IEEE R10 Congress**, Was one of the **30** IEEE student members from India selected to represent the IEEE student community at the IEEE R10 Congress, Colombo.	*Colombo, Sri Lanka*
2013	**Rank 126**, Among 150,000 entrants in the Karnataka Common Entrance Test.	*Bengaluru, India*
2013	**Top 1%**, JEE Main Entrance Exam, with a state rank of 255.	

Skills

PROGRAMMING SKILLS

Python | C/ C++ | Bash familiarity

TOOLKITS/ PACKAGES

Matlab | OpenCV | Caffe | PyTorch