

Yashas Annadani

CONTACT INFORMATION

Department of Electrical and Electronics Engineering
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RESEARCH INTERESTS

Computer Vision, Machine Learning, Artificial Intelligence

EDUCATION

National Institute Of Technology – Karnataka, INDIA

August 2013 – June 2017

Bachelor of Technology (3rd Year)

Major: Electrical and Electronics

CGPA: 9.16/10.0 (Upto 6th Semester)

5th in the department out of total 105 students

Shri Bhagawan Mahaveer Jain College, Bangalore, INDIA

June 2011 – March 2013

Pre-university

Core Subjects: Physics, Chemistry, Mathematics, Biology

CPI/Percentage: 95.25% (Core Subjects)

PUBLICATIONS

Annadani Yashas, Naganoor Vijayakrishna, Jagadish Akshay Kumar and Chemmangat Krishnan, **Selfie Detection by Synergy-Constraint based Convolutional Neural Network**. Accepted for publication at *IEEE International Conference on Signal Imaging Technology and Information Systems (SITIS)*, 2016.

RESEARCH EXPERIENCE

Undergraduate Thesis

Guides: Soma Biswas, Krishnan CMC

Indian Institute of Science and NITK-Surathkal

Aug 2016 – Present

Real time action recognition by using motion preserving video representations

Summer Research Intern

Guide: Francois Bremond

INRIA, France

May 2016 – July 2016

Deep Siamese CNN for large scale action recognition from RGBD data

Summer Research Fellow

Guide: Dr. Soma Biswas

Department of Electrical Engineering, Indian Institute of Science

May 2015 – July 2015

Human Action Recognition using 3D Skeletal Joints

SKILLS AND COURSEWORK

• Regular Coursework

Linear Algebra, Probability Theory, Pattern Recognition and Machine Learning, Signals and Systems, Digital Signal Processing, Single and Multi variable calculus, Linear Digital Control Theory.

• Independent Coursework

Image and Video Processing (by Guillermo Sapiro, Duke University) Coursera: Successfully completed course with **distinction**

Machine Learning (by Andrew NG, Stanford University) Coursera

• Computational Skills: Java, C, Python and Bash

- **Technical Skills:** Matlab, TINA, Octave, OpenCV, Caffe, Torch and L^AT_EX

ACADEMIC RESEARCH PROJECTS

Digital Electronics Course Project

Aug 2015 – Sept 2015

Designing a SRF-PLL using FPGA

Detecting voltage imbalance of an inverter output by implementing a Synchronous Reference Frame Phase-Locked Loop (SRF-PLL) using a digital circuit. Developed VHDL blocks to achieve the task. The code was executed on Altera FPGA hardware.

Smartslate Project

Dec 2014 – Feb 2015

Forming three-dimensional projections of a contour or any object which aids the blind

Built a refreshable tactile interface for the blind, that enables them to touch and grasp concepts. Implemented 8x8 matrix of actuators controlled by Raspberry pi and driven by 12V DC motor. Project was selected for display at project expo at **Rastrapati Bhavan, New Delhi**.

Facial Gender Recognition using Neural Networks

March 2015 – May 2015

Biologically inspired gender recognition from facial images

Aim was to make the recognition task invariant to changes in age and external appearance. Various anatomical features which were found distinct to each gender (male and female) were extracted using Image processing techniques and classified using Neural Nets.

ACADEMIC HONORS

- Offered Mitacs Globalink Scholarship for Summer Research Internship in Canada (Declined).
- Secured Rank **126** in Karnataka Common Entrance Test (2013) among 150,000 entrants.
- Ranked in *top 1%* (All India) in JEE Main Entrance Exam (2013) for admission to NITs ,with a state rank of 255.
- Secured Rank **47** in COMED-K Entrance Exam (2013) from approximately 50,000 entrants.
- Secured distinction in Class 12 (*95.25 %*) board examination. Secured distinction in Class 10 ICSE (*94.6%*) board examinations and was the batch topper.

EXTRA - CURRICULAR

- Member of the executive committee of IEEE NITK, which holds a good mix of workshops, talks, projects and competitions on various engineering and technological aspects.
- Delivered a workshop on Image Processing as part of IEEE at NITK (Jan 2015).
- Secured 3rd place in the competition *Velocity, ENGINEER 2013*, an RC car building and racing competition held at NITK which witnessed participants from all over the country (Oct 2013).
- Secured 4th place in the competition *Fuel RC2, TECH TATVA 13*, technical fest of Manipal Institute of technology among more than 20 teams from all over the country (Oct 2013).
- Love to play basketball regularly, avid reader of novels, music lover and travel enthusiast.