Nagabhushan S N

https://nagabhushansn95.github.io/

Research Interests

Image and Video Signal Processing, Deep Video Prediction: Applications and Evaluation, Computer Vision, Machine Learning

Education

Ph.D. - Indian Institute of Science (IISc), Bengaluru

Aug 2018 - Present

Email: nagabhushans@iisc.ac.in

Phone: $+91\ 9035838220$

Dept of Electrical Communication Engineering

♦ Advisor : Dr. Rajiv Soundararajan

♦ CGPA : 9.59

B.E. - PES Institute of Technology, Bengaluru

Aug 2012 - May 2016

Dept of Electronics and Communication Engineering

CGPA

: 9.93 (Gold Medallist)

Class XII : 96% (District Topper)

2012 2010

Class X : 96.8% (District Topper)

Course Work

Mathematics : Linear Algebra, Probability, Optimization

Electrical: Digital Image Processing, Digital Video: Perception and Algorithms, Computer

Vision, Machine Learning for Signal Processing, Detection and Estimation Theory

Computer Skills

Programming Languages : Java, Python, Android, MATLAB

Platforms : Windows, LINUX, MacOS

Softwares : LATEX

Professional Experience

♦ Indian Institute of Science (IISc), Teaching Assistant
 ♦ Cisco Systems India Pvt Ltd, Software Engineer
 Aug 2016 - Jul 2018

◇ Cisco Systems India Pvt Ltd, Software Engineer
 ◇ Elseem Inc., Research Intern
 Aug 2016 - Jul 2018
 Jun 2015 - Jul 2015

Publications

⋄ Nagabhushan Somraj, Manoj Surya Kashi, S. P. Arun, and Rajiv Soundararajan. Understanding the perceived quality of video predictions. arXiv e-prints, page arXiv:2005.00356, 2021 - Under review at Signal Processing Image Communication journal.

♦ Vijayalakshmi Kanchana, Nagabhushan Somraj, Suraj Yadwad, and Rajiv Soundararajan. Revealing disocclusions in temporal view synthesis through infilling vector prediction. In *IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2022 - To appear in WACV 2022.

Projects

♦ Face Detection using Aggregate Channel Features	2019
♦ Image Mosaicing (Panorama)	2019
♦ Intra-Campus Wi-Fi Calling System with Voice Activity Detection	2016
♦ Android Apps: Finance Manager, One Touch Settings	2014 – 17

Honors & Awards

- \diamond Recipient of Prime Minister's Research Fellowship (PMRF), 2020.
- ♦ Recipient of MHRD scholarship (Govt of India) for all 4 years of B.E.