Nagabhushan S N
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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
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
Class X	: 96.8% (District Topper)	2010

Course Work

Mathematics	: Linear Algebra, Probability, Optimization
Electrical	: Digital Image Processing, Computer Vision, Machine Learning for Signal Processing, Digital Video: Perception and Algorithms, Detection and Estimation Theory

Computer Skills

Programming Languages	: Python, MATLAB, Java, Android
Platforms	: Windows, LINUX, MacOS
Softwares	: LaTeX

Professional Experience

- ⋄ **PES University**, Visiting Faculty — Jan 2021 - Present
- ⋄ **Indian Institute of Science (IISc)**, Teaching Assistant — Oct 2020 - Present
- ⋄ **Cisco Systems India Pvt Ltd**, Software Engineer — Aug 2016 - Jul 2018
- ⋄ **Elseem Inc.**, Research Intern — Jun 2015 - Jul 2015

Selected Publications

- ⋄ Nagabhushan Somraj and Rajiv Soundararajan. ViP-NeRF: Visibility prior for sparse input neural radiance fields. In *SIGGRAPH*, 2023.

- ⋄ Nagabhushan Somraj, Pranali Sancheti, and Rajiv Soundararajan. Temporal view synthesis of dynamic scenes through 3d object motion estimation with multi-plane images. In *IEEE International Symposium on Mixed and Augmented Reality (ISMAR)*, 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

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

Updated on April 18, 2023