Nagabhushan S N

https://nagabhushansn95.github.io/

Research Interests

3D Computer Vision, Deep Video Prediction: Applications and Evaluation, Image and Video Signal Processing, Machine Learning

Education

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

Aug 2018 - Present

Email: nagabhushans@iisc.ac.in

Phone: $+91\ 9035838220$

B.E. - PES Institute of Technology, Bengaluru

Aug 2012 - May 2016

Dept of Electronics and Communication Engineering

 \diamond CGPA : 9.93 (Gold Medallist)

 $\begin{array}{lll} \textbf{Class XII} & : 96\% \text{ (District Topper)} & 2012 \\ \textbf{Class X} & : 96.8\% \text{ (District Topper)} & 2010 \\ \end{array}$

Course Work

Mathematics : Linear Algebra, Probability, Optimization

Electrical : Digital Image Processing, Computer Vision, Machine Learning for Signal Processing,

Digital Video Processing, Detection and Estimation Theory

Professional Experience

♦ PES University, Visiting Faculty	Jan 2021 - May 2023
♦ Indian Institute of Science (IISc), Teaching Assistant	Oct 2020 - May 2022
♦ Cisco Systems India Pvt Ltd, Software Engineer	Aug 2016 - Jul 2018
♦ Elseem Inc., Research Intern	Jun 2015 - Jul 2015

Publications

- Nagabhushan Somraj, Adithyan Karanayil, and Rajiv Soundararajan. SimpleNeRF: Regularizing sparse input neural radiance fields with simpler solutions. In ACM SIGGRAPH Asia, December 2023
- \diamond Nagabhushan Somraj and Rajiv Soundararajan. ViP-NeRF: Visibility prior for sparse input neural radiance fields. In ACM 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.
- Nagabhushan Somraj, Manoj Surya Kashi, S. P. Arun, and Rajiv Soundararajan. Understanding the perceived quality of video predictions. Signal Processing: Image Communication (SPIC), 102:116626, 2022.
- 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.

Projects

♦ Intra-Campus Wi-Fi Calling System with Voice Activity Detection

2016

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.