Lalit Manam

C-235, Computer Vision Lab
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Education

Ph.D - Electrical Engineering (9.1/10)   2018–present
Indian Institute of Science Bengaluru
Advisor: Prof. Venu Madhav Govindu
B.Tech. - Electronics and Communication Engineering (9.41/10)   2013–2017
National Institute of Technology Silchar

Experience

Teaching Assistant   Feb 2021–May 2021
- *Indian Institute of Science Bengaluru*
  - Course: Computer Vision (E1 216)
  - Instructor: Prof. Venu Madhav Govindu

Teaching Assistant   Oct 2020–Jan 2021
- *Indian Institute of Science Bengaluru*
  - Course: Stochastic Models and Applications (E1 222)
  - Instructor: Prof. P S Sastry

Software Developer   Jul 2017–Jul 2018
- *AMDOCS Development Center India LLP*
  - Involved in development of billing solutions for telecommunication industry

Projects

- Motion averaging in 3D reconstruction problems   Aug 2019–present
  - Working on different methods to estimate camera motions

- Restoration of images corrupted by various noises using fuzzy based approaches   Jul 2016–May 2017
  - Developed different methods for removal of impulse noise from colour images
  - Work published in various journals/conferences

- K-Map Windows app   Mar 2015
  - Developed an application to solve 4 variable K-Map in Sum-of-Product (SOP) form
  - https://www.youtube.com/watch?v=lqLGpYOKIwQ

Research Papers

- L. Manam, V.M. Govindu, "Correspondence reweighted translation averaging", under submission

- A. Roy, L. Manam, R.H. Laskar, "Removal of 'Salt & Pepper' noise from color images using adaptive fuzzy technique based on histogram estimation", Multimedia Tools and Applications, vol. 79, no. 47, pp. 34851-34873, Dec 2020

- A. Roy, L. Manam and R.H. Laskar, "Region adaptive fuzzy filter: an approach for removal of random valued impulse noise", IEEE Transactions on Industrial Electronics, vol. 65, no. 9, pp. 7268-7278, Sept. 2018

- L. Manam, A. Roy, R. H. Laskar and F. A. Talukdar, "Removal of fixed valued impulse noise using global noise statistics based adaptive histogram fuzzy filter", TENCON 2017 - 2017 IEEE Region 10 Conference, pp. 2231-2235, Nov. 2017

- A. Roy, J. Singha, L. Manam, R.H. Laskar, "Combination of adaptive vector median filter and weighted mean filter for removal of high density impulse noise from color images", IET Image Processing, vol. 11, no. 6, pp. 352-361, Jan. 2017

Skills & Technologies

- C, C++, Visual C#, Python, MATLAB
- Basic ability with SQL, LaTeX

Relevant courses

- Computer Vision
- Stochastic Models and Applications
- Linear and Non-linear Optimization
- Convex Optimization
- Machine Learning

Honours and Awards

-Received Academic Excellence Award and a Silver Medal at NIT Silchar for scoring highest CPI (May 2017)
-Awarded Best Volunteer 2015 in Administration at Children of Hope India (Silchar based NGO) (Feb 2016)
-Invited for Dewang Mehta felicitation of engineering students at Kaziranga University Jorhat   (Aug 2015)
-Received Academic Excellence Award and a Silver Medal at Delhi Public School Dhanbad   (July 2013)

Extra Curriculars

- Volunteer in Administration at Children of Hope India (March 2015–April 2016)
- 1st runner up of Bang Bang; event under Tronix Week 2014, NIT Silchar
- Conducted C Programming classes under Robotics Club, NIT Silchar (Aug–Nov 2014)
- Organised events under ECS Society and Robotics Club, NIT Silchar
- Participated in NITSMUN in Sept 2014 as delegate of Nigeria

Hobbies and Interests

Technology, Programming
Volunteering, Organising, Management

References

- Prof Venu Madhav Govindu, Indian Institute of Science Bengaluru
- Prof Rabul Laskar, National Institute of Technology Silchar
- Prof Fazal Talukdar, National Institute of Technology Silchar