

# DHANYA S PANKAJ

✉ dhanyaspankaj@cet.ac.in 📞 Mob: 9544165044 📍 Thiruvananthapuram, India

## EMPLOYMENT

### Assistant Professor

Department of Computer Science and Engineering  
College of Engineering Trivandrum

📅 October 2019 - Present

## EDUCATION

### PhD

**Thesis Title:** Improved Algorithms for Automatic Registration of 3D Point Clouds.

📅 2012 - 2017 📍 Thiruvananthapuram

- Indian Institute of Space Science and Technology

### M.Tech

Computer Science and Engineering with Specialisation in Digital Image Computing

📅 2009 - 2011 📍 Thiruvananthapuram

- Department of Computer Science, University of Kerala
- CGPA - 3.93/4

### B.Tech

Computer Science and Engineering

📅 2002 - 2006 📍 Thiruvananthapuram

- College of Engineering Trivandrum, University of Kerala
- Percentage : 82.9
- 2<sup>nd</sup> Rank in the University

## EXPERIENCE

### Programmer Analyst

📅 2006 - 2009 📍 Chennai

- Cognizant Technology Solutions Pvt. Ltd.

### Assistant Professor

📅 2011 - 2012 📍 Ernakulam

- Rajagiri School of Engineering and Technology

### Lecturer in Computer Engineering

📅 2015 - 2019 📍 Thiruvananthapuram

- Government Polytechnic Colleges, Kerala
- Leave from service : 2015 - 2017 (PhD)

## PUBLICATIONS

- Pankaj, Dhanya S., and Rama RaoNidamanuri. "A robust estimation technique for 3D point cloud registration." *Image Analysis & Stereology* 35.1 (2016): 15-28.
- Pankaj, Dhanya S., and Rama RaoNidamanuri. "Robust algorithm for multiview registration." *IET Computer Vision* 11.1 (2017): 96-103.
- Pankaj, Dhanya S., Rama RaoNidamanuri, and Bhanu Prasad Pinnamaneni. "ProLoSAC: An Improved RANSAC Algorithm for Pairwise Registration of 3D Point Clouds." *Proceedings of the 2014 ICVGIP*. 2014.
- Pankaj, Dhanya S., and Rama RaoNidamanuri. "Robust multiview registration of point clouds." *2016 International Conference on Communication Systems and Networks (ComNet)*. IEEE, 2016.
- Pankaj, Dhanya S., Rama RaoNidamanuri, and P. Bhanu Prasad. "3-D imaging techniques and review of products." *Proceedings of International Conference on Innovations in Computer Science and Engineering*. 2013.
- Pankaj, Dhanya S., and M. Wilscy. "Comparison of PCA, LDA and gabor features for face recognition using fuzzy neural network." *Advances in Computing and Information Technology*. Springer, Berlin, Heidelberg, 2013.413-422.
- Pankaj, Dhanya S., and M. Wilscy. "Face recognition using fuzzy neural network classifier." *International Conference on Parallel Distributed Computing Technologies and Applications*. Springer, Berlin, Heidelberg, 2011.
- M V, Priya, and Pankaj, Dhanya S. "3DYOLO: Real-Time 3D Object Detection in 3D Point Clouds For Autonomous Driving", *IEEE India Geoscience and Remote Sensing Symposium, Virtual Conference, 2021*
- R. R. M and D. S. Pankaj, "Challenges in Creating Text Summarization Models in Malayalam: A Study," *2023 International Conference on Control, Communication and Computing (ICCC)*, Thiruvananthapuram, India, 2023, pp. 1-6
- A. K K and D. S. Pankaj, "Forecasting the Market: A Survey of Techniques for Stock Market Prediction," *2023 International Conference on Control, Communication and Computing (ICCC)*, Thiruvananthapuram, India, 2023, pp. 1-6
- M. L. Leenuse, D. S. Pankaj and R. R. M, "Detection and Prediction of Terrorist Activities and Threatening Events in Twitter - A Survey," *2023 International Conference on Control, Communication and Computing (ICCC)*, Thiruvananthapuram, India, 2023, pp. 1-6
- D. S. Pankaj and R. R. Nidamanuri, "A Robust Estimation Method for Automatic Registration of Remote Sensing Imagery," *2023 International Conference on Machine Intelligence for GeoAnalytics and Remote Sensing (MIGARS)*, Hyderabad, India, 2023, pp. 1-4
- Antony, S., Pankaj, D.S. (2023). Automatic Text Summarization Using Word Embeddings. In: Sharma, N., Goje, A., Chakrabarti, A., Bruckstein, A.M. (eds) *Data Management, Analytics and Innovation*. ICDMAI 2023. *Lecture Notes in Networks and Systems*, vol 662. Springer, Singapore.

## **PROFESSIONAL ACTIVITIES**

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- Joint Secretary, IEEE GRSS Kerala Chapter
- PRC Member of Projects by Ministry of Electronics and IT, Govt. of India

## **AREAS OF INTEREST**

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- Digital Image Processing
- Point Cloud Processing
- Computer Vision
- Machine Learning
- Remote Sensing
- Natural Language Processing

## **University/Academic Duties**

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- Teach undergraduate and postgraduate students
- Guide undergraduate, postgraduate projects
- Guide Research Scholars
- Board of Studies (CS Allied) Member, APJKTU
- Question paper setting, scrutiny and answer paper valuation
- Member of various committees (IPR, IIC)