

# Chilukamari Rajesh

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Google Scholar Scopus LinkedIn

## Current Affiliation

### Assistant Professor

Department of Computer Engineering  
NIT Kurukshetra, Haryana-136 119, India

## Education

- 2020–2024 : **Ph.D. (Computer Science & Engineering)**, *National Institute of Technology Warangal*, Telangana, India.
- 2018–2020 : **M.Tech. (Computer Science & Engineering)**, *National Institute of Technology Sikkim*, Sikkim, India.  
8.26/10 CGPA
- 2014–2017 : **B.E. (Computer Science & Engineering)**, *Matrusri Engineering College (Osmania University)*, Hyderabad, Telangana, India.  
75.76%
- 2011–2014 : **Diploma (Computer Engineering)**, *Govt Polytechnic College, Warangal*, Telangana, India.  
84%
- 2011 : **SSC**, *Vidya Jyothi High School, Palakurthy*, Telangana, India.  
87%

## Experience

### Teaching Experience

- June 2024 – **NIT Kurukshetra**, Haryana, India.  
Current Assistant Professor Grade II
- Feb 2024 – **VIT-AP University**, Andhra Pradesh, India.  
May 2025 Assistant Professor Senior Grade 1

### Industrial Experience

- July 2019 – **Keysight Technologies**, Kolkata, India.  
Dec 2019 Intern  
Project: Cloud Peak
- May 2017 – **Spooks Technologies**, Hyderabad, India.  
Aug 2018 Associate DevOps Engineer  
Project: Effort

## Doctoral Thesis

Title : ***Some Metaheuristic Algorithms to Design Deep Neural Networks for Medical Image Detection***

Supervisor : **Prof. Ravichandra Sadam**, Professor, Dept. of CSE, NIT Warangal, India

CoSupervisor: **Prof. Sushil Kumar**, Assistant Professor, Dept. of Computer Engg., NIT Kurukshetra, India

Awarded on : 16 January 2024

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## Publications

### Journal Articles (Accepted)

- 2024 **Chilukamari Rajesh**, Ravichandra Sadam, and Sushil Kumar. An evolutionary chameleon swarm algorithm based network for 3d medical image segmentation. *Expert Systems with Applications*, volume 239, page 122509. Elsevier, 2024, ( **Impact Factor:7.5, SCIE, Q1 [Received Reproducible Badge]** ).
- 2023 **Chilukamari Rajesh**, Ravichandra Sadam, and Sushil Kumar. An evolutionary u-shaped network for retinal vessel segmentation using binary teaching–learning-based optimization. *Biomedical Signal Processing and Control*, volume 83, page 104669. Elsevier, 2023, ( **Impact Factor:4.9, SCIE, Q1** ).
- 2022 **Chilukamari Rajesh** and Sushil Kumar. An evolutionary block based network for medical image denoising using differential evolution. *Applied Soft Computing*, volume 121, page 108776. Elsevier, 2022, ( **Impact Factor:7.2, SCIE, Q1 [Received Reproducible Badge]** ).

### In Conference Proceedings (Accepted)

- 2024 **Chilukamari Rajesh**, Ravichandra Sadam, and Sushil Kumar. Automated deep learning models for medical image segmentation and denoising. In *17th International Conference on Signal Processing and Communication System (ICSPCS)*, pages 1–7. IEEE, 2024.
- 2023 **Chilukamari Rajesh** and Sushil Kumar. Automatic retinal vessel segmentation using btlbo. In *Soft Computing for Problem Solving: Proceedings of the SocProS 2022*, pages 189–200. Springer, 2023.

### In Book Chapters (Accepted)

- 2025 **Chilukamari Rajesh**, Chintakindi Balaram Murthy, Medipelly Rampavan, and Srinivas Arukonda. Explainable lightweight transformer-based neural network for multi-label medical image classification. In *Transformative Role of Transformer Models in Healthcare*. IGI Global, 2025.

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## Areas of Interest

- Computer Vision
- Evolutionary Optimization
- Medical Imaging
- Deep Learning

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## Reviewer of Reputed Journals

- IEEE Transactions on Evolutionary Computation (TEVC)
- Information sciences, Elsevier
- Neural Networks, Elsevier