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**Current Research Interests:** Currently, Dr. Sumalatha research is focused on

1. Image Processing
2. Deep Learning

Biographical Information:

Dr.R.Sumalatha received her B.Tech, M.Tech in Electronics and Communication Engineering from Sri Venkateswara University, and Jawaharlal Nehru technological University, Hyderabad in 2004 and 2007 respectively. She was awarded Doctorate degree in Electronics and Communication Engineering at Jawaharlal Nehru technological University, Hyderabad in 2017. She started his carrier in 2007 as Assistant Professor from St.Johns College oif Engineering & Technology, Kurnool. She is presently working as Associate Professor in Department of Electronics and Communication Engineering at Vardhaman College of Engineering, Hyderabad.

Selected Publications: (Recent 5 Papers)

- [1] R. Sumalatha, “*Hand Gesture Recognition for Disaster Management Applications*” SPRINGER, ISSN: 2194-5357, March 2018. (SCOPUSINDEXED).
- [2] R. Sumalatha, “*Fusion of Visible and Infrared Image Features for Face Recognition*” IJEAT, Vol.8, Issue.5, ISSN: 2249-8958, June 2019. (SCOPUS INDEXED).
- [3] R. Sumalatha, “*Thermal Face Recognition using Bag of Words*” IJITEE, Vol.8, Issue.8, ISSN: 2278-3075, June 2019. (SCOPUS INDEXED).
- [4] R Sumalatha “*Pothole Detection Using YOLOv2 Object Detection Network and Convolutional Neural Network*”, Applied Information Processing Systems, pp 293-300,2020. (SCOPUS INDEXED).
- [5] R Sumalatha, “*Detection of Driver Distraction Using Convolutional Neural Network*”, Innovations in Cyber Physical Systems, 315-323, 2021. (SCOPUS INDEXED).

Patents Published/Granted: (Latest 2)

1. AMTH- Biomedical Waste Management: Automatic Method and Technologies for Biomedical Waste Management Including Ayurveda Hospitals Using IoT- Based System.
2. Development of Advanced Prosthetic Device for Blind Amputees.

On-Going Research Projects:

1. TEQIP-III, JNTUH, Automatic Pothole detection and listing the GPS Location, 2019.
2. A Science and Technological Hub for Making of Eco Friendly and cost effective products to enhance Socio-Economic status of SC Community in Chevella Region, Telangana State,DST,2020.

- 3.** IEEE Region 10 & IEEE Humanitarian Activities Committee (HAC) approved a grant of \$500.00 for the project named “Deep Learning Based Approach for Face Mask Detection for Infection Spread Control of COVID-19” (R10- HTA- 066).