RAVIKANTH TALLURI

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Objective

To work in a resourceful environment with contribution resulting in growth and elevation of the organization and proving myself as an essential ingredient through innovative ideas.

Work Experience

Teaching: :

- Assistant Professor : Tirumala Engineering College, Narasaropeta, Andhra Pradesh,January 2021 –to till date.
- Assistant Professor : Narasaropeta Engineering College(Autonomous),Narasaropeta, Andhra Pradesh,August 2014 - January 2021
- Assistant Professor : Tirumala Engineering College, Narasaropeta, Andhra Pradesh May 2011 to Nov 2011.
- Assistant Professor : Nalanda institute of engineering and technology, June 2009,May 2011

Educational Qualifications:

- **M.Tech.** (**DECS**) with **Distinction (74.5 %)** from **GMR Institute of Technology,** Rajam**,** affiliated to **JNTUK,AP** in 2013.
- **B.Tech** (Electronics and communication Engineering) with **First Class (64.5%)** from **Nalanda Institute of Engineering &Technology,** Sattenapalli**,** affiliated to **JNTUK,AP** in 2009.
- **Intermediate (MPC)** with First class **(83.1 %)** from APSWRS &Junior College,Chillakuru,Andhraparadesh in 2005.
- **10th standard** with First class **(62.5 %)** from APSWRS &Junior College,Karempudi,Andhraparadesh in 2003.

Skill Set

Languages : MATLAB and C

Operating systems : Windows

Areas of Interest

- Image Processing
- Signal Processing

Projects Undertaken

Academic Projects:

M.Tech III & IV SEM:

Title : "NPR biorthogonal wavelets for edge feature extraction "

Location **: GMR Institute of Technology,** Rajam

Description : Edge detection reflects the fundamental information ofthe image ,and popularly used in several fields i.e., Medical imageprocessing ,Computer vision based system. Now the present work describes a method of filter design for edge feature

extraction of image by using the Non-Perfect Reconstruction (NPR) Biorthogonal wavelet filter banks,

with important properties like Symmetry and Supporting interval. The design procedure includes low pass decomposition filter and high pass reconstruction filter. The low pass decomposition filter of NPRbiorthogonal wavelet is even symmetry about zero location then edge position is more accurate, filter response in converges to maximum and the high pass decomposition filter is odd symmetry about ½ location and the sign is monotonic to give the accurate edge detection. The NPR biorthogonal wavelet is superior to Perfect Reconstruction (PR) biorthogonal wavelet for edge feature extraction results.

BTech:

Title : "Operation of ROBOT using Touch Screen"

Location **: Nalanda Institute of Engineering &Technology,** Sattenapalli

Description : The Touch screen is mounted on top of the robot, and once the path is drawn, and the user picks up their finger, the robot follows the dictated path. The robot will take the path drawn on the screen, and traverse a path within a 6x9 foot area. This was done because the interface between a robot's movement, and the path being drawn by a user has many unique, and interesting applications, from robotic drawing to autonomous operations.

Publications

- "NPR biorthogonal wavelets for edge feature extraction " ,in International Conference on Science ,Technology & Management (ICTM - Sep 2013)WAIRCO , 27-28 September,2013 SITAMS, Chittore , AP.
- Optimization technique for Edge feature extraction, International Journal of Engineering Research & Technology,2021(Under process).

FDP/ Workshops

- One Week Online Faculty Development Program on"PYTHON 3.4.3",from25th Mayto 30th May 2020 by Sir Visvesvaraya Institute of Technology , Nashik in association with Spoken Tutorial IIT Bombay.
- Five Day National level Faculty Development Programme on "Artificial Intelligence", from 22.05.2020 to 26.05.2020, CMR Engineering College, Hyderabad.
- Five Day Faculty Development Programme on **"Recent trends in IC design using Mentor Graphics EDA tools"** organized by Narasraopeta Engineering college, from 18-11-2019 to 22-11-2019
- AICTE Sponsored Two week Faculty Development Programme on **"Emerging trends in Machine Learning for Biomedical Applications"** organized by Narasraopeta Engineering college,from 29-07-2019 to 10-08-2019 .
- One Week Faculty Development Programme on **"VLSI Chip Design Hands –on using Open Source EDA"** organized by Narasraopeta Engineering college,from 08-07-2019 to 12-08-2019.

- Five Day Faculty Development Programme on **"IoT Application Development using Advanced Processors"** organized by Narasraopeta Engineering college,from 03-06-2019 to 08-06-2019.
  - A short term course on "**Resent trends in Biomedical Instrumentation through ICT**"conducted by Narasraopeta Engineering college,from 25-03-2019 to 29-03-2019(NITTR,Chandigarh).
- A short term course on "**Digital system Design through ICT**"conducted by Narasraopeta Engineering college,from 28-01-2019 to 01-02-2019(NITTR,Chandigarh).
- A short term course on "**Biomedical signal processing through ICT**"conducted by Narasraopeta Engineering college,from 16-07-2018 to 20-07-2018(NITTR,Chandigarh).

- Faculty Development Programme on **"Personal &Professional Excellence VIS-À-VIS Language & Literature"** organized by department of Applied Science & Humanities, Tirumala Engineering College, Jonnalagadda.

- National Workshop on **"Embedded real time operating systems-(ERTOS-2012)"** organized by department of ECE,GMR Institute of Technology, Rajam.
- National seminar on **"Remote Sensing, Image Processing & Applications-(RSIAP-2013)"** organized by department of EIE&CSE,VR Siddhartha Engineering college, Vijayawada.

- Three-day National Workshop on ''**Advanced Optimization Techniques for Engineering and Management**-**(AOTEM-2013)"** organized by department of ECE,GMR Institute of Technology, Rajam.

- **''International conference on Science ,Technology and Management(*ICSTM-2013*)'',** held on september 2013 at **Sreenivasa Institute of Technology and Management Studies(Autonomous),Chittoor.**

Personal Profile

Date of Birth : 9th July 1988

Father's Name : Kotaiah

Gender : Male

Nationality : Indian

Marital status : Married

Permanent Address : Bhatluru Post,
Sattenapalli Mandal,
Gunturu District,
Andhra Pradesh-522402.