

## **YERRAMSETTY CHAKRAPANI**

Father's name : Y. Balasundaram  
Present Address : Flat no : 301, Vibgyor Vertex Apartments  
Gun Foundry, King Koti Road  
Hyderabad – 500029  
Date of Birth : 20<sup>th</sup> June 1966.  
Nationality : Indian



---

### Educational Qualifications:

|        |                                |                  |           |             |
|--------|--------------------------------|------------------|-----------|-------------|
| Ph.D   | Image Processing               | JNTUA, Anantapur | May 2011  |             |
| M.Tech | Electronic Instrumentation     | R.E.C, Warangal  | June 1994 | First class |
| B.Tech | Electronics and Communications | KSRMCE, SVU      | July 1987 | First class |

---

### Technical skills:

|                       |                          |         |           |                                       |
|-----------------------|--------------------------|---------|-----------|---------------------------------------|
| Programming Languages | MATLAB                   | C & C++ | Core Java | Python. Assembly Language Programming |
| Operating Systems     | Windows 10, Windows XP , |         |           |                                       |

---

### Work Experience:

|                       |                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------|
| June 2011 to Present  | : Working as Professor of ECE Department<br>ACE Engineering College, Ghatkesar<br>Hyderabad |
| June 2005 to May 2011 | : Worked as Professor of ECE Department<br>G.P.R. Engineering College , Kurnool             |
| June 2000 to May 2005 | : Worked as Associate Professor of ECE Department                                           |

G.P.R. Engineering College , Kurnool

June 1994 to May 2000 : Worked as Assistant Professor of ECE Department

G.P.R. Engineering College , Kurnool

June 1987 to May 1991 : Worked as Teaching Assistant of ECE Department

G.P.R. Engineering College , Kurnool.

---

Additional Responsibilities Held:

- Head of the ECE Department from 2008 to 2011.
- Coordinator of Internal Quality Assurance Cell (IQAC)
- of National Assessment and Accreditation Council (NAAC).
- Coordinator of Research and Development(R&D) cell.
- Coordinator of Sports and Games.

---

Workshops Organized:

- 15 days workshop on "**Curriculum development and Evaluation**" sponsored by AICTE in 2008 at G.Pulla reddy Engineering College, Kurnool. The resource persons are from IISc, Bangalore and NITTTR, Chennai.
- 3 day workshop on "**Method of Improving Teaching skills**" sponsored by NAAC in 2006 at G.Pulla reddy Engineering College, Kurnool. The resource persons are from NITTTR, Chennai.

- 3 day **Technical Exhibition** thrown open to the public as part of silver Jubilee celebrations of GPR Engg college, Kurnool.
- 2 day workshop on "**PSoC (Programmable System on chip)**" at GPR Engineering College in 2010.

**AICTE Grants:** Modernization and removal of obsolescence of Embedded system Lab(**MODROBS**). Grant amount is Rs 8.42 Lakhs.

**Patents** : 4 patents are Filed

Application Numbers :202041020914

202031027653

202041029110

2021100092

**FDPs Attended:**

1. Digital Signal Processing at NIT Warangal
2. MATLAB at GPREC

## Online FDPs Attended:

|                                                                                                                                         |                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 1. MATLAB and its applications in Engineering using Machine Learning and Deep Learning<br>Big Image Data Processing using Deep Learning | 13th to 17th July 2020                 |
| 2 Techniques                                                                                                                            | 27th to 31st July 2020                 |
| 3 IoT and Machine Learning                                                                                                              | 26th to 30th June 2020                 |
| 4 Present trends and Research scopes in 5G wireless communications<br>Research trends in Image                                          | 27th to 28th June 2020<br>15th to 19th |
| 5 Processing<br>Optimization Techniques through Machine Learning for                                                                    | 2020                                   |
| 6 Wireless and IOT<br>Workshop on AI and Deep                                                                                           | 13th to 18th July 2020<br>1st to 28th  |
| 7 Learning<br>Research Opportunities in Image Processing and                                                                            | July 2020<br>29th June to 3rd July     |
| 8 Machine Learning<br>One week STTP on Predictive Analytics using Machine Learning                                                      | 2020<br>10th to 16th August            |
| 9 with Python<br>Workshop on Python                                                                                                     | 2020                                   |
| 10 Programming<br>Applied Machine Learning and Deep                                                                                     | 3rd to 7th August 2020                 |
| 11 Learning                                                                                                                             | 15th to 20th June 2020                 |
| 12 Cyber Security                                                                                                                       | 15th to 19th June 2020                 |

### Webinars:

|                                                                                     |                        |
|-------------------------------------------------------------------------------------|------------------------|
| Present trends and Research scopes in 5G wireless                                   |                        |
| 1 Communications<br>Introduction to IPR and Importance of                           | 27th to 28th June 2020 |
| 2 Incubation Centre<br>Recent Applications in Non-Orthogonal Multiple Access for 5G | 8th June 2020          |
| 3 and Beyond                                                                        | 11th July 2020         |

## List of Published Papers

1. Y.Chakrapani, K.Soundararajan, "A Comparative approach to Fractal Image Compression using Genetic algorithm and Simulated Annealing technique", Asian Journal of Information Technology, Medwell Journals, ISSN 1682-3915 , 7(7), 2008, pp 265-289
2. Y.Chakrapani, K.Soundararajan, " Neural Network approach for image feature space classification employing Back-Propagation algorithm", Artificial Intelligence and Machine Learning, ICGST, ISSN 1687-4856 , Vol 8, Issue III, Dec 2008, pp 39-43 (I.F 1.78)
3. Y.Chakrapani, K.Soundararajan, "Hybrid Genetic-Simulated Annealing approach for fractal image compression", International Journal of Computational Intelligence 4;4, ISSN 1875 -6883, Fall 2008, pp 308-313.
4. Y.Chakrapani, K.Soundararajan, "Genetic algorithm applied to fractal image compression", ARPN Journal of Engineering and Applied Sciences, ISSN 1819-6608 , Vol 4, No 1, Feb 2009, pp 53-58 .
5. Y.Chakrapani, KSoundararajan, "Implementation of fractal image compression employing Artificial neural networks", World Journal of modeling and simulation, ISSN 746-7233 , Vol 4, 2008, No 4, pp 287-295.
6. Y.Chakrapani, K.Soundararajan, "Implementation of fractal image compression employing Hybrid Genetic-Neural approach", International Journal of computational cognition, ISSN 1542-5908 , Vol 7, No 3, Sep 2009, pp 33-39 (I.F1.92)

7. Y.Chakrapani, K.Soundararajan, "Implementation of fractal image compression employing Particle Swarm Optimization", World Journal of modeling and simulation, ISSN 746-7233, Vol 6, 2010, No 1, pp 40-46
8. Y.Chakrapani, K.Soundararajan, "Adaptive Neuro Fuzzy Inference System based fractal image compression", International Journal of Recent trends in Engineering, ISSN 2455-1457 , Vol 2, No 1, Nov 2009, pp 47-51.
9. S.Sreekanth,Y.Chakrapani," Motion Adaptive Compensation Approach For Deinterlacing of Video Sequences", International Journal of Computer Applications, ISSN 0975-8887, Vol-15-No.3,Feb-2011 I J C A
- 10.S.Sreekanth, Y.Chakrapani, "Four Field Motion Adaptive Deinterlacing Algorithm", International Journal of Computer Technology and Applications, ISSN 2229-6093 , Vol 2(5),1343-1351,Sept-Oct 2011. I J C T A (I. F 2.804 )
11. S. Fouzia Sulthana, y. chakrapani, " new quality approach for analyzing the quality of Deblocked Images", International Journal of Engineering Research and Technology, ISSN 2278-0181 , Vol 2(4),1343-1351, April 2013.
- 12.S.Yashwanth Reddy, Y.Chakrapani, "Recovering from a Node failure in Wireless sensor actor networks with minimal topology changes" ISSN 2321-032X , Vol 2(6),704 – 708 ,Sept-Oct 2014.
13. S.Chandrasekhar, G.Laxminarayana, Y.Chakrapani, "Novel Hybrid Segmentation techniques for Cardiac Image Processing in Remote Health Care Monitoring Systems",Journal of Medical Imaging and Health Informatics.Vol.7,1 October.2017.ISSN:2156-7018.(Science Citation Index Expanded (SCIE/SciSearch®)).

14. S.Chandrasekhar, G.Laxminarayana, Y.Chakrapani, "A Hybrid Compression Technique for Cardiac Image Analysis in Telecardiology System", ARPJ Journal of Engineering and Applied Sciences. Issue17 volume 11, September 2016.ISSN:1819-6608, PP 10214-10221.(Scopus Indexed with Journal Impact Factor(**JIF**) 2.5682)
- 15.B.Janardhan Rao, Y.Chakrapani, S.Srinivasa Kumar, "Image Inpainting with Improved Patch Priority and Patch Selection", IETE Journal of Education, May 2018, ISSN : 0974-7338.
- 16.B Janardhana Rao, Y Chakrapani, S Srinivas Kumar, Hybridized Cuckoo Search with Multi-Verse Optimization-Based Patch Matching and Deep Learning Concept for Enhancing Video Inpainting, The Computer Journal, 2021;, bxab067, <https://doi.org/10.1093/comjnl/bxab067>

#### **List of Conferences:**

##### **International Conference:**

- 1.Paper titled "Wavelet Based Modeling and Ordering of Embedded Image Compression" presented in Recent Trends in Automation & its Adaptation to Industries, PCEA-IFT0MM held during 11<sup>th</sup> – 14<sup>th</sup> July 2006 at Priyadarshini College of Engineering & Architecture, Nagpur.
2. S.Nagaraju Rao, Dr.M.N.Giri Prasad, Y.Chakrapani, Dr.K.Sounderrajan, "Information hiding for wavelet coder in content based image retrieval", proceedings of first IEEE International conference on Signal and Image Processing (ICSIP), vol 1, pp128-133, December 2006.
3. Y.Chakrapani, T.Swetha, .P.Subrahmanyam, "Area Efficient FIR Filter Architecture based on Radix 256 Algorithm", Proceedings of 2nd

International Conference on Innovations in Electronics and Communication Engineering (ICIECE-2013), pp 1093 – 1097, August 2013.

4. Y.Chakrapani, T.Swetha,“ AABS Technique for Detection of Moving Objects Using FPGA”, Proceedings of 2nd International Conference on Innovations in Electronics and Communication Engineering (ICIECE-2013), pp 168 – 172, August 2013.

5. Dr.Y.Chakrapani, Mr.S.Karukanakar Reddy , Mr.T.Gnaneshwar Goud, “Flower Classification Using Neural Network Based Image Processing ”,Proceedings of 2nd International Conference on Innovations in Electronics and Communication Engineering (ICIECE-2014),July 2014.

6. S.Chandrasekhar, G.Laxminarayana, Y.Chakrapani, “**An Efficient Image Compression Technique for Telecardiology System**”, International Conference on Intelligent Sensor systems (ICISS 2017), 23th - 25th November 2017, KKR & KSR Institute of Technology Guntur ISBN: 978 9352815234.

7. S.Chandrasekhar, G.Laxminarayana, Y.Chakrapani, “**A Secure Telemedicine framework based on Paillier Cryptosystem** ”, 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology(RTEICT-2018), 18<sup>th</sup>-19<sup>th</sup> May 2018, SVCE,Bengaluru,India in association with IEEE Bengaluru Section and IEEE Computer Society. IEEE ISBN: 978-1-5386-2440-1/18/\$31.00 ©2018 IEEE.



**National Conference:**

1. Paper titled "Statistical Hybrid Coding for data Compression" presented in Signal Processing and Communications held during 5<sup>th</sup> & 6<sup>th</sup> Dec 2005 at Sreenidhi Institute of Science and Technology, Hyderabad.
2. Paper titled "Partial Search LBG Algorithm based Compression for Image Data" presented in Wireless and Mobile Communications pp 127-131 held during 10<sup>th</sup> & 11<sup>th</sup> March 2006 at Vardhaman College of Engineering, Hyderabad.
3. Paper titled "Compression of Video Information with High SNR by employing Spiral Coding for macro block order of Processing" presented in Wireless and Mobile Communications pp.95-98 held during 10<sup>th</sup> & 11<sup>th</sup> March 2006 Vardhaman College of Engineering, Hyderabad.
4. Paper titled "Low Complexity Embedded wavelet coding of Imaginary using Context Modeling and O' tree Block Coding" presented in Recent Trends in Electronics and Communications on 25<sup>th</sup> Jan 2007 at G. Pulla Reddy Engineering College, Kurnool.
5. Paper titled "Extraction of Fetal Heart rate & Fetal Heart rate variability from mother's ECG signal" presented in Emerging Trends in Electronics and Communication on 6<sup>th</sup> Feb 2010 at St. Ann's College of Engineering & Technology, Chirala.

6. Paper titled "Efficient Detection using ordered successive interference cancellation for MIMO Systems" presented in Emerging Trends and Techniques in Electronics & Communication Engineering held during 17<sup>th</sup> & 18<sup>th</sup> March 2011 at Lords Institute of Engineering & Technology, Hyderabad.

7. M.Ramireddy, Y.Chakrapani, "Time Varying LMS Based Sub Band Adaptive Algorithms for Acoustic Echo Cancellation" proceedings of National conference on Electronics & Communication(MVP-NCEC-2010), March 25-27, 2010.

Station : Hyderabad

Date : 15.07.2021



Signature