

**Dr. G G Rajput, Professor, Akkamahadevi Women's University, Vijayapura**



1. Name: Dr. GANAPATSINGH G RAJPUT
2. Department: Computer Science
3. Current Designation: Professor
4. Academic Qualifications: MSc(IT), MSc(Maths), MPhil, Ph.D., PGDCA
5. Research Experience : 15 years
6. Teaching Experience : 25 years
  - a. College: HKE's Degree College, Aland, Kalaburgi :23-12-1993 to 14-06-1999
  - b. University:
    - i. Gulbarga University, Kalaburgi : 15-06-1999 to 08-02-2012
    - ii. Rani Channamma University, Belagavi : 09-02-2012 to 03-08-2018
    - iii. Akkamahadevi Women's University, Vijayapura : 03-08-2018

7. Research Area: Image processing and Pattern Recognition  
Document Image Processing, Biometrics, Medical Image Processing  
Data Mining

8. Research Guidance
  - a. Awarded  
PhD: 06 MPhil: 06
  - b. Pursuing  
Ph.D.: 04

Ph.D. Awarded

Name	Title of the thesis	Year of award
Mali S. M.	A Study on Marathi Numerals Recognition	2011
Rajeswari Horakeri	A Study on Unconstrained Kannada Hand Printed Character Recognition	2014
Anita H. B.	Script Identification from Multilingual Indian Handwritten Document Images	2014
Vrinda Shivashetty	A study on Mathematical Modelling of Adaptive Evolutionary Computation for Image Compression	2016
Preethi Veeranna	A study on Diabetic Retinopathy Using Digital Image Processing Techniques	2016
Bharati M. Reshmi	A study on Diabetic Maculopathy Using Digital Image Processing Techniques	2017
Anand Chavan	A study on Automatic Detection of Abnormality in Abdominal and Liver Images	2018

## 9. Book Published

Handwritten Marathi Numeral Recognition – Basic Concepts and Methods, Lambert Academic Publishing, USA, ISBN 978-3-8443-8594-6

## 10. Research Projects

### a. Completed

Major Research Project Sanctioned by UGC: “A Study on Automatic Detection of Diabetic Retinopathy using Fundus Images”

### b. Ongoing

Minor Research Project sanctioned by Rani Channamma University: “ Face Photo Recognition Using Sketch images”

## 11. Positions/Assignments

- a. Chairman, Department of Computer Science, Rani Channamma University, Belagavi
- b. Chairman, BoS(PG & UG) in Computer Science, Rani Channamma University, Belagavi
- c. Member, BoS (PG) in Computer Science, Gulbarga University, Kalaburgi
- d. Member, BoS (PG) in Computer Science, Tumkur University, Tumkur
- e. Member, BoS (PG) in Computer Science, Nanded University, Nanded.
- f. Member, RUSA Project Team, Rani Channamma University, Belagavi
- g. ICT Co-Ordinator, Rani Channamma University, Belagavi
- h. Nodal Officer, AISHE, Rani Channamma University, Belagavi
- i. Nodal Officer, KSURF, KSHEC, , Rani Channamma University, Belagavi
- j. Chairman, Student Feedback Committee, IQAC , Rani Channamma University, Belagavi
- k. Member, Information Compilation and presentation committee, NAAC SSR, IQAC, Rani Channamma University, Belagavi.

## 12. Membership

- a. Life member of Indian Unit For Pattern Recognition And Artificial Intelligence : *An Affiliate Of International Association For Pattern Recognition*. (IUPRAI), ISI Culcutta.
- b. Life Member, Computer Society of India, Member code 01118955
- c. Senior member of the *International Association of Computer Science and Information Technology* (IACSIT), Singapore.

## 13. Resource person/Paper Presentation( 2015 and onwards)

- ICT in Higher Education, Refresher course dated 04-12-2015, ASC, B'lore University, Bangalore
- Lead lecturer –‘Medical Image Processing’, Second National Conference on Digital Image and Signal Processing, 20th Feb 2016, Department of Computer Science, MIT Campus, PUNE
- Statistical Analysis using Spreadsheets Refresher course on “Research Methodology And Statistical Analysis” 13.07.2016, Karnataka State Women’s University, Vijayapura
- ICT Tools in Teaching and Learning”, one week National Short Term Training Programme on “ Tool in Teaching, Learning, and Research” 28th and 29th November, 2016, Dept. of Applied Science and Humanities, BKIT, Bhalki
- “ ICT Tools in Teaching and Learning”, National seminar on “ Use of Computer in Higher Education in Rural Area” organized by Department of Economics, Arts, Commerce and Science College, Kowad, dist. Kolhapur dated 10-10-2017.
- Presented a paper “A review on Segmentation Techniques with Application to CT liver Images” in second National Conference on Digital Image & Signal Processing organized by Dept. of Computer Science , MAEER’s Arts, Science, and Commerce College, Pune , 20<sup>th</sup> Feb. 2016
- Presented a paper entitled “ Offline signature recognition based on features in frequency domain and spatial domain using KNN classifier”, 14-15<sup>th</sup> December 2017, National Conference on

Computational Sciences and Soft Computing, NCCSSC 2017, JNNCE, Shivamogga. Best paper award for the said paper.

- Presented a paper entitled “ A study of effect of training period duration and share split event on predicting stock prices using neural networks” in Intl. Conf. on Recent Innovations in Computer Science and Information Technology, ICRISCIT-Pune, dated 21-05-2017.
- Presented a paper entitled “A Hybrid Approach for Detection of tumor In Abdominal CT Scan Images”, WRFER International Conference, Intl. Conf. on Advanced Electrical, Electronics, Computer Science, Management and Mechanical Engineering (ICE2CSM2E), 7th May 2017 Pune

#### 14. Research Publications ( 2015 and onwards)

1. Mathematical Morphology based Optic Disc Detection in Retinal Fundus Images, DISP 2015(2):1-5, April 2015 International Journal of Computer Application(IJCA), ISSN: (0975 – 8887)
2. Text-Line Extraction from Handwritten Document Images using Histogram and Connected Component Analysis, DISP 2015(2):11-17, April 2015, International Journal of Computer Application(IJCA), 973-93-80886-41-2.
3. A Comparative Study of Adaptive Lifting based Interactive Artificial Bee Colony Algorithm with Wavelets, Artificial Bee Colony Algorithm and Particle Swarm Optimization Algorithm for Image Compression DISP 2015(2):18-23, April 2015, International Journal of Computer Application (IJCA), 973-93-80886-41-2.
4. Lifting based image compression using Intelligent Water Drop Algorithm, pp 154-158, NCACCT2015, International Journal of Engineering Research & Technology, ISSN 2278-0181.
5. A Comparative Study on Adaptive Lifting Based Scheme and Interactive Artificial Bee Colony Algorithm For Image Compression, Vol.7, No.2, April 2015, pp 57-68, The International Journal of Multimedia & Its Applications (IJMA), DOI : 10.5121/ijma.2015.7205, 0975-5578
6. Automatic detection of Optic Disc based on Mathematical Morphology in Retinal Fundus Images, pp1-5, DISP 2015, International Journal of Computer Application(IJCA), ISSN 0975-8887
7. Separation of Touching or Overlapping Lines from Handwritten Document images using Histogram and Connected Component Analysis, pp 15-19, International Journal of Computer Application(IJCA), NCDISP 2016/Number 1 , ISBN: 973-93-80892-62-1. Writer-independent Offline Signature Recognition based upon Fourier Descriptors, pp 162(5):29-33, International Journal of Computer Application(IJCA), Volume 162 - Number 5, ISBN: 973-93-80895-84-7,2016
8. Automatic Detection of Abnormalities Associated with Abdomen and Liver Images: A Survey on Segmentation Methods, pp. 1-9, International Journal of Computer Application(IJCA), Volume 140/Number 4, ISBN: 973-93-80891-80-1, 2017
9. A Study on Tumor Segmentation from CT Liver Images Using Region Growing and Otsu Segmentation Techniques pp 114-118, International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), Volume 6, Issue 1, ISSN: 2278 – 1323, 2017
10. Writer Independent Offline Signature Recognition based upon HOGs Features, pp 60-67, International Journal of Electronics Engineering, ISSN: 0973-7383, 2017
11. Writer-independent Offline Signature Recognition based upon Fourier Descriptors, Volume 162 – No 5, March 2017, pp 29-33. International Journal of Computer Applications 0975 – 8887.
12. A Novel Approach for Image Steganography Based on Random LSB Insertion in Color Images SSRN Electronic Journal, Proceedings of International Conference on Intelligent Computing Systems, journal of Information system network, Elsevier's SSRN eLibrary ssrn.3131654 DOI 10.2139/ssrn.3131654, 2017
13. Script Identification from Handwritten Documents Using SIFT method, IEEE Explore proceedings of Intl. Conf. on Power, Control, Signals, and Instrumentation Engineering (ICPCSI-2017 IEEE catalog CJP17 M84-PRJ: 978-1-5386-0813-5, 2017.
14. A Novel Approach for Image Steganography based on LSB Technique, Pages 167-170, Proceedings of the International Conference on Compute and Data Analysis, ACM New York, NY, USA ©2017, ISBN: 978-1-4503-5241-3.