

# PROFILE

## Dr. Rohini A. Bhusnurmath

### Address

Assistant Professor,  
Department of Computer Science,  
Akkamahadevi Women's University,  
Vijayapura – 586105, Karnataka, India  
rohinibhusnurmath@gmail.com



### Education

- Ph.D. (Computer Science), 2012-2017, Gulbarga University, Kalaburagi, Supervised by : Dr. P.S. Hiremath
- M.Phil. (Computer Science), 2006-2007, Periyar University, Salem.
- M.Sc. (Computer Science), 2000-2002, Karnataka University, Dharwad
- B.Sc. (Physics, Mathematics and Electronics), 1997-2000, Karnataka University, Dharwad, College: Jagadguru Tontadarya College, Gadag.

### Awards

- 1) Best paper award : 2016, International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R), Bidar, Karnataka, India, Dec. 2016, Springer publication.
- 2) Rank : 2002, Second Rank in M.Sc. (Computer Science), Karnataka University, Dharwad.
- 3) Rank : 2000, First Rank in B.Sc., Jagadguru Tontadarya College, Gadag.

### Publications

#### International Journals

- 1) P.S. Hiremath and **Rohini A. Bhusnurmath**, 2017, “Texture Classification Using PDE Approach and Wavelet Transform”, Pattern Recognition and Image Analysis (PRIA), Vol. 27, No. 3, pp: 473- 479, Sept. 2017, DOI: 10.1134/S1054661817030154 (SCOPUS, UGC Journal No.37083).
- 2) P.S. Hiremath and **Rohini A. Bhusnurmath**, 2017, “Performance analysis of anisotropic diffusion descriptors in applications of colour texture Classification”, International Journal of Computer Vision and Image Processing (IJCVIP), IGI Global, Vol. 7, No. 2, pp. 50-63, April-June 2017, DOI:10.4018/IJCVIP.2017040104 (UGC Journal No.63162).
- 3) P.S. Hiremath and **Rohini A. Bhusnurmath**, 2017, “Multiresolution LDBP Descriptors for Texture Classification Using Anisotropic Diffusion With an

- Application To Wood Texture Analysis” Pattern Recognition Letter (PRL), 89, (2017), pp. 8-17, DOI: 10.1016j.patrec.2017.01.015 (SCOPUS, UGC Journal No. 37084)
- 4) P.S. Hiremath and **Rohini A. Bhusnurmath**, 2016, “PDE Based Features for Texture Analysis Using Wavelet Transform”, International Journal on Cybernetics & Informatics (IJCI) Vol. 5, No. 1, February 2016, pp. 143-155. ISSN :2277-548X (Online) 2320-8430 (Print) DOI: 10.5121/ijci.2016.5114.
  - 5) P.S. Hiremath and **Rohini A. Bhusnurmath**, 2015, “Diffusion Approach for Texture Analysis Based on LDBP”, International Journal of Computer Engineering and Applications (IJCEA), Vol. 9, No. 7, Part I, July 2015, pp. 108-121. ISSN: 2321-3469. Impact Factor: 2.8 (2014-15), (DBLP Indexing, UGC Journal No. 44835)
  - 6) P.S. Hiremath and **Rohini A. Bhusnurmath**, 2013, “Nonsubsampled Contourlet Transform and Local Directional Binary Patterns for Texture Image Classification Using Support Vector Machine”, International Journal of Engineering Research and Technology (IJERT), Vol.2, No.10, October 2013, pp. 3881-3890. ISSN: 2278-0181. Impact Factor: 1.76
  - 7) P.S. Hiremath and **Rohini A. Bhusnurmath**, 2013, “Texture Image Classification using Nonsubsampled Contourlet Transform and Local Directional Binary Pattern”, International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), Vol.3, No.7, July 2013, pp. 819-827. ISSN: 2277-128X. Impact Factor: 2.080

### International Conferences

- 1) **Rohini A. Bhusnurmath** and P.S. Hiremath, Dec 2017, “LDA Based Discriminant Features for Texture Classification Using WT and PDE Approach”, Third International Conference on Cognitive Computing and Information Processing (CCIP 2017), Begaluru, Karnataka, India, CCIS, Vol. 801, pp. 191-200. Springer, Singapore DOI: 10.1007/978-981-10-9059-2\_18
- 2) P.S. Hiremath and **Rohini A. Bhusnurmath**, Dec 2016, “Industrial Applications of Colour Texture Classification Based on Anisotropic Diffusion”, First International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R), Bidar, Karnataka, India, CCIS, Vol. 653, pp. 293–304. Springer, Singapore, DBLP, SCImago and Scopus indexing DOI: 10.1007/978-981-10-4859-3\_27 (Best Paper Award). ISBN 978-981-10-4859-3
- 3) P.S. Hiremath and **Rohini A. Bhusnurmath**, Mar 2016, “Colour Texture Classification Using Anisotropic Diffusion and Wavelet Transform”, Seventh International Conference on Advances in Communication, Network, and Computing- CNC 2016, Bengaluru, Karnataka, India, pp. 44-61, March 2016, Walter De Gruyter publication, DOI: 10.1515/9783110469608-006.
- 4) P.S. Hiremath and **Rohini A. Bhusnurmath**, Dec 2015, “PDE Based Features For Texture Analysis Using Wavelet Transform”, Sixth International Conference on Advances in Computer Engineering - ACE-2015, Kochi, Kerala, India, Special

Issue of the International Journal on Cybernetics & Informatics (IJCI), pp. 143-155, Dec. 2015, DOI: 10.5121/ijci.2016.5114, Published by IDES.

- 5) P.S. Hiremath and **Rohini A. Bhusnurmath**, Dec 2014, “RGB – Based Color Texture Image Classification Using Anisotropic Diffusion and LDBP”, Multi-disciplinary Trends in Artificial Intelligence, 8th International Workshop (MIWAI 2014), M.N. Murty et al. (Eds.): MIWAI 2014, LNAI 8875, pp. 101–111, Dec. 2014, Print ISBN 978- 3-319-13364-5 Online ISBN 97-3-319-13365-2, DOI 10.1007/978-3-319-13365- 2\_10, Springer International Publishing Switzerland 2014. (DBLP Indexing)
- 6) P.S. Hiremath and **Rohini A. Bhusnurmath**, Aug 2014, “Texture Classification Using Anisotropic Diffusion and Local Directional Binary Pattern Co-Occurrence Matrix”, Second International conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA 2014), Yelahanka, Bengaluru, Karnataka, India, No. 2, pp: 763-769, Aug. 2014. ISBN: 978-9-351-07262-1, Elsevier Publications 2014.

### **National Conferences**

- 1) P.S. Hiremath and **Rohini A. Bhusnurmath**, Apr 2016, “Applications Of Texture Analysis Based On Anisotropic Diffusion”, UGC Sponsored National Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R), pp: 116 -128, ISBN:978-93-5267-599-9, 2-3 April 2016, Bidar, Karnataka, India.
- 2) P.S. Hiremath and **Rohini A. Bhusnurmath**, Nov 2015, “Parquet Data Classification Using PDE and LDBP”, Eighth National Women’s Science Congress, Swadeshi Vijnana Andolana- Karnataka, SVAK, Hebbal, Bengaluru, India, Abstract pp. 81. November 2015. (In press)
- 3) P.S. Hiremath and **Rohini A. Bhusnurmath**, Feb 2014, “A Novel Approach to Texture Classification Using NSCT and LDBP” National Conference on Recent Advances in Information Technology (NCRAIT 2014), Solapur, Maharashtra, India, pp: 36-42, Published by IJCA, February 2014. (ISBN-973-93-80880-08-3). ISSN 0975-8887.

### **Skills Training**

- 1) One day workshop on “Excelling in Academics through IEEE” held on 2nd February, 2018, jointly organized by Library and Information Centre and BLDEA’s CET IEEE Student Branch, held at BLDEACET, Vijayapur, Karnataka, India.
- 2) Six days Faculty Development Programme on “Research Literacy and Trends in Scholarly Communications” held during 23-28 January, 2017, Jointly organized by Library and Information Centre and Department of Civil Engineering, at B.L.D.E Association’s Vachana Pitamaha Dr.P.G.Halakatti College of Engineering and Technology, Vijayapur, Karnataka, India.
- 3) One day workshop on Image Analysis in MATLAB held on 15th Dec 2016 in the Dept. of Computer Science at Karnataka Arts, Science and Commerce College, Bidar, Karnataka, India.

- 4) Three days National level seminar on Soft Computing Techniques to pattern Recognition held during 3-5 November 2016, at Dept. of Studies in Computer Science, University of Mysore, Mysuru, Karnataka, India
- 5) One day workshop on Applications of Computer Vision, Graphics and ImageProcessing (ICVGIP), 2014, IISC, Bengaluru, Karnataka, India.
- 6) Three days 7<sup>th</sup> National Women's Science Congress, Rshtriya Mahila Vijnana Sammelana, held during 7-9 November 2014, at Karnataka State Women's University, Vijapur, Karnataka, India.
- 7) One day UGC sponsored national workshop on Recent Developments in Digital Image Analysis held on 30<sup>th</sup> May 2014, in the Dept. of Computer Science, Gulbarga University, Gulbarga, Karnataka, India.
- 8) Two days International conference on Computational Intelligence held during 21-22 March 2014 in the Dept. of Computer Science and ACM students' chapter of university of Mumbai, Deccan education society's Navichandra Mehta Institute of technology and development, Mumbai, Maharashtra, India.
- 9) Two days International conference on Information and Communication Technology held during 5th and 6th May 2014, organized by PES institute of Technology and Management, Shivamogga, Karnataka, India.
- 10) Six days National level STTP on "Applied Algorithms" during 14th to 19th October 2013, under Quality Improvement Programs at Dept. of Computer Engineering and information Technology, Zeal Education society's, Dnyanganga College of Engineering and Research, Narthe, Pune, Maharashtra, India.
- 11) Two days workshop on "Research Issues In Data Mining" held during 26-27 October 2012 in the Dept. of Computer Science & Engineering, BLDEA's V.P. Dr. P. G. Halakatti College of Engineering & Technology, Bijapur, Karnataka, India.
- 12) Two days International conference on Evolutionary Trends in Information Technology held during 5-6 October 2012, at Visvesvaraya Technological University, Belgaum, Karnataka, India.
- 13) Two days workshop on LaTeX and its practical approach, a Faculty development programme held during 5-6 May 2012 in the Dept. of Computer Science & Engineering, BLDEA's V.P. Dr. P.G. Halakatti College of Engineering & Technology, Bijapur, Karnataka, India.
- 14) One day UGC sponsored national workshop on Research Methodology in Computer Science held on 29<sup>th</sup> March 2012, in the Dept. of Computer Science, Gulbarga University, Gulbarga, Karnataka, India.

#### **Resource Person**

- 1) Master resource person (District level) for Technology Adopted Learning Program (TALP) , 2017 organized by the Pre University Board, Karnataka, India.

#### **Member of Academic Council**

- 1) Member, Board of Examiners for PGDCA (Post Graduate Diploma in Computer Application) , 2005, Karnataka University, Dharwad.

- 2) Member, Board of Examiners for PGDCA (Post Graduate Diploma in Computer Application), 2004, Karnataka University, Dharwad.

### **Certificates**

- 1) Webinar on “Preparing your manuscript” on 27 February 2017, Elsevier Publishing Campus.
- 2) Webinar on “Gender Bias in Academic Publishing” on 5 June 2017, Elsevier Publishing Campus.

### **Other Activities**

- 1) Reviewer for Vol. 11, No. 2, October 2014 of the International Journal of Computer Science & Applications, Special Issue on Computational Intelligence, Published by Technomathematics Research Foundation, India

### **Membership of Professional Bodies, Societies, Etc.**

- 1) Life Member of Computer Society of India since 2017 .

### **Teaching Experience**

- Assistant professor, Department of Computer Science, Akkamahadevi Women’s University, Vijayapura – 586105, Karnataka, India (2018-till date)
- Lecturer, Department of Computer Science, Government P.U. College for Girls, Vijayapur, Karnataka, India (2009-2018).
- Lecturer, Department of Computer Science, Basaveshwar Arts and Commerce College, Gadag, Karnataka, India (2003-09).
- Guest Faculty at KUPG, Centre for PGDCA, Basaveshwar Arts and Commerce College, Gadag, Karnataka (2003-07), Government First Grade Degree College, Gadag, Karnataka, (2008-09) and Government First Grade Degree College, Gadag, Karnataka (2006-07).
- Teaching Assistant, Post Graduate Diploma in Computer Application, KUPG Centre for PGDCA, Basaveshwar Arts and Commerce College, Gadag, Karnataka (2007-09).