

## **Dr. Aziz Makandar**

**Office:**

**Professor**

**Department of Computer Science**

**Karnataka State Women's University**

**Jnanashakti Campus**

**Bijapur-586109**

**Karnataka State (India)**

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### **Research Interest:**

Digital Image Processing, Knowledge Acquisition, Machine Learning and Perception, Artificial Intelligence

### **Education:**

**Ph.D** (Comp.Sc&Engg)

**M.Tech** (Comp.Sc&Engg)

### **Membership of K.S.W.University,Bijapur.**

Chairman Board of Studies  
(UG & PG)

Department of Computer Science  
(2007 to 2014)

Chairman Board of Examiner  
(PG)

Department of Computer Science  
(2007 to Till Date)

### **External Member**

Board of Examiner

Gulbarga University, Karnataka University, Dharwad  
Bangalore University, Mysore University, Mysore Kuvempu  
University, Shivmogga Mangalore University, Rani Channamma  
University, Belgum, Vijayanagar Sri Krishnadevaraya  
University, Bellary.

## **Professional Experience: Total Teaching Experience- 17 Years**

<b>Professor</b> Dept of Computer Science Karnataka State Women's University, Bijapur-586109 Karnataka, India	<b>1 Aug 2013</b> (Till Date)	<b>Presently Working</b>
<b>Associate Professor &amp; Chairman</b> Dept of Computer Science Karnataka State Women's University, Bijapur-586109 Karnataka, India	01 August 2010 to 31 July 2013	3 years
<b>Reader &amp; Chairman</b> Dept of Computer Science Karnataka State Women's University, Bijapur-586109 Karnataka, India	01 August 2007 to 31 July 2010	3 years
<b>Assistant Professor</b> Department of Computer Sc & Engineering K B N College Of Engineering Gulbarga, Karnataka,India	01 July 2005 to 31 July 2007	2 Years
<b>Lecturer</b> Department of Computer Sc & Engineering K B N College Of Engineering Gulbarga, Karnataka,India	17 Nov 1997 to 30 June 2005	8 years

### **Research Supervision:Ph.D 03 (On going)**

1. Mrs BhagiratiHalahlhi – Medical Image Analysis Techniques and Applications for Breast Cancer
2. Miss Anita Petrot – Malware Image Analysis and Classification.
3. Mrs. Daneshwari Mulimani – Video image analysis and efficient object detection Techniques in video Frames

### **Contribution to Profession:**

- Started M.C.A program in computer science department. From Academic Year 2011-12
- Established a UGC Computer Laboratory
- HP-LIFE Grant in 2011

## Grants Received from various Agencies

Sl.No	Name of the Scheme	Year Sanction	Sanction Order No	Sponsoring Agency	Grant Received
01.	ComputerCenter	2009	F.6-4/2009(Comp./Tech.)	UGC	62 Lac
02.	LIFETrainingCenter	2011	-	HP	US \$60 Thousand

### I. International Journal Publications

- 01) Aziz Makandar & K Karibasappa“**Performance and Analysis of Wavelet based Medical Image Compressions using EZW**” International Journal of Computer and Mathematical Sciences, Vol. 1, Dec. 2009, PP75-80, ISSN 0976-5727.**IF: 2.58**
- 02) Aziz Makandar & K Karibasappa“**Lossless Medical Image Compressions Using HAAR and DB 4 Wavelet with EZW Coding**”, International Journal of Information Technology and Engineering, International Science Press, Vol. 1, Jan. 2010, PP 33-38, ISSN 2229-7367.**IF:0.309**
- 03) Aziz Makandar & K Karibasappa“**Embedded Lossless Medical Image Compressions with Wavelet Transform**”, International Journal of Physical Sciences, Vol. 22, No. 1, PP 1-8, March 2010 ISSN 0970-9150. IF : **1.152**
- 04) Aziz Makandar & K Karibasappa“**Progress Embedded Lossless Medical Image Compression using Wavelet Transform**”, International Journal of Computer and Information Technology, Vol. No. 1, Aug. 2010, PP 85-92, ISSN 2229-3531.**IF: 0.876**
- 05) “**Progressive Embedded Lossless Medical Image Compression using Biorthogonal Wavelet Transform**” Journal of computer science & Information technology, Vol1, No1,August 2010,pp 85-92,ISSN 2229-3531. IF: **3.32**
- 06) Aziz Makandar & K Karibasappa“**Wavelet Based Medical Image Compressions using SPHIT**”, International Journal of Computer and Mathematical Sciences, Vol. 1. Issues 7, Dec. 2010, PP 769-775,ISSN 0976-5727.**IF: 2.58**
- 07) Aziz Makandar “**Design and Analysis of System Security Using Artificial Neural Networks for Libraries**”, International Journals of Golden Research Thoughts, July 2012, PP 1-7, ISSN 2231-5063. **IF 2.2052**
- 08) Aziz Makandar &Sheetalranikawale, “**Incorporation Concepts of Nano-Technology Services and Computing for Smart Class Rooms**” Research Link Journal, July 2012, PP 26-29, ISSN 0973-1628.**IF:3.4052**

- 09) Aziz Makandar “**Medical Image Compression Using Orthogonal and Biorthogonal Wavelet Transform**” Indian Stream Research Journal, Oct 2012, pp 1-9,ISSN 2230-7850 **IF: 3.1560**
- 10) Aziz Makandar “**ICT Enable education**”Reading In Social Sciences,2012,pp 84-92, ISBN 978-93-82166-03-0
- 11) Aziz Makandar &SiyraShaik“**Presentation and Evaluation of Mobile Routing protocol for Ad-hoc Network**” Indian Stream of Research Journal, Volume 3, Issue. 4, May. 2013, ISSN:- 2230-7850. **IF: 3.1560.**
- 12) Aziz Makandar & Anita Patrot“**MAC Scheduling Algorithm for Wireless Network**” Golden Research Thoughts, Volume-3, Issue-1, July-2013, ISSN 2231-5063**IF 2.2052**
- 13) Aziz Makandar &ShireenbanuKaladagi“**Secure RGB Image Steganography from Pixel Indicator Technique**” Indian Streams Research Journal, Volume-3, Issue-6, July-2013,ISSN 2230-7850 **IF: 3.1560.**
- 14) Aziz Makandar &NasreenMokashi“**Performance of Routing Protocols in wireless Ad Hoc network based on Sensor**”,Golden Research Thoughts, Volume-3, Issue-1, July-2013, ISSN 2231-5063, **IF 2.2052**
- 15) Aziz Makandar &SairaAlafShaik“**A Review of Voice Analysis and Recognition Techniques, Indian Streams**”Indian Streams Research Journal, Volume-3, Issue-6, July-2013,ISSN 2230-7850 **IF: 3.1560.**
- 16) “**Performance and Analysis of Artificial Intelligence and Neural Networks in IMT**” IJRCSIT , ISSN No.: 2319-5010, Vol. 2-Issue 2 , February 2014,PP 169-176.**IF:3.32**
- 17) Aziz Makandar, Anita Patrot, Bhagirathi Halalli, “ **Color Image Analysis and Contrast Stretching using Histogram Equalization,**” International Journal of Advanced Information Science and Technology (IJAIST) vol.27, No.27, ISSN. 2319:2682, July 2014, **IF:3.5**
- 18) Smt. Sheetalrani R Kawale, Dr. Aziz Makandar, Ramesh K “**Enhancing Energy Efficiency in WSN using Energy Potential and Energy Balancing**”, International Journal of Innovative in information Security(IJIRIS), August 2014,ISSN 2349-7009, **IF 4.80**
- 19) Aziz Makandar and Bhagirathi Halalli “**Image enhancement techniques using Highpass and Lowpass filters**”, International Journal of Computer Application (IJCA), ISBN: 973-93-80884-82-0, Volume 109, Number 14, pp.21-27, January 2015,**IF: 0.715.**
- 20) Aziz Makandar and Bhagirathi Halalli “**A Review on Preprocessing Techniques for Digital Mammography images**”, International Journal of Computer Applications (IJCA) ISSN: 0975 – 8887 National conference on Digital Image and Signal Processing, DISP 2015, pp.23-27, Feb 2015, **IF: 0.715.**

- 21) Aziz Makandar and Bhagirathi Halalli “**Breast Cancer Image Enhancement using Median Filter and CLAHE**”, International Journal of Scientific and Engineering Research (IJSER), ISSN 2229-5518, Volume 6, Issue3, March 2015, **IF: 3.2**
- 22) Aziz Makandar and Anita Patrot, “**Computation Pre-processing Techniques for Image Restoration,**” International Journal of Computer Applications (IJCA) ISSN.0975-8887, vol.113-No.4, March 2015, **IF: 0.715**
- 23) Aziz Makandar and Anita Patrot, “**Overview of Malware Analysis and Detection**” International Journal of Computer Applications (0975-8887) National Conference on Knowledge, Innovation in Technology and Engineering (NCKITE 2015) July 2015, **IF: 0.715**
- 24) Aziz Makandar and Anita Patrot “**Malware Image Analysis and Classification using Support Vector Machine**” International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE 2015), October 27. Vol.04, No.05, PP 01-03(2015) Special issue of I CETEM 2015 on 27 October, **IF: 0.378**
- 25) Aziz Makandar and Bhagirathi Halalli “**Threshold Based Segmentation Technique for Mass detection in mammography**” Journal of Computer, Vol.11, No.6, November 2016, ISSN: 1796-203x, pp: 472-478. **IF: 0.42**

## II. International Conference

- 01) “**Neural Network Model for Classification of bulk grain samples based on color and texture**”, International Conference on Cognition and Recognition, PES College of Engineering, Mandhya, Karnataka (India), 22<sup>nd</sup> and 23<sup>rd</sup> Dec. 2005, PP 359-368.
- 02) “**Multivariable System Security using ANN in the Libraries: Design and Development**”, 4<sup>th</sup> International Convention on Dynamic and Interoperable Web based Information Systems, CALIBER 2006, 2-4, Feb. 2006, PP 607-615.
- 03) “**A Fast Motion of Moving Objects Estimation Algorithm using Winner update Strategy**”, IEEE International Conference on Signal and Image Processing (ICSIP) 2006, 7-9, Dec. 2006, B.V.B College of Engineering and Technology, Hubli, Karnataka (India), PP 832-837.
- 04) “**A Region based Segmentation of Moving Foreground Object using Winner Update Strategy**”, IEEE International Conference on Advances in Computer Vision and Information Technology (ACVIT-007), 28-30, Nov. 2007, Dept. of Computer Science and Information Technology, BAM University, Aurangabad (Maharastra) India, PP 659-667.

- 05) **“Performance and Analysis of Wavelet Based Medical Image Compressions using EZW”**, 2<sup>nd</sup> IEEE International Conference on Advance in Computer Vision and Information Technology (ACVIT-09), Dept. of Computer Science and Information Technology, Dr. B.A.M. University, Aurangabad (Maharashtra), India, PP 782-787.
- 06) **“Nano-Technology Services Embedded with Ubiquitous Computing for Smart Classroom”**, International Conference on Latest Trends Nano Sciences and Nanotechnology, K.B.N. College of Engineering, Gulbarga, Karnataka (India), 28-29, March 2011, PP 329-337.
- 07) **“Pseudo Solid Like Activities of Nano Combination Melts”**, International Conference on Latest Trends Nano Sciences and Nano-Technology, K. B. N. College of Engineering, Gulbarga, Karnataka (India), 28-29, March 2011, PP 260-269.
- 08) Aziz Makandar and Bhagirathi Halalli **“The Importance of Information technology in Supply Chain Management”**, Two-Day International Conference on "Strategies for Social and Sustainable Competitive Advantage in Globalized Era" on 20th and 21st June, 2014 organized by Karnataka State Women's University, Bijapur (Karnataka).20&21 June 2014,Vol 2, PP 286-292.
- 09) Aziz Makandar, Anita Patrot, **“The Role of XML for Business to Business,”** International Conference on Strategies for social and sustainable competitive Advantage in Globalized Era, 20-21 Jun 2014,20&21 June 2014,Vol 1, PP 188-192.
- 10) Aziz Makandar, Bhagirathi Halalli, Anita Patrot, NasreenMokashi**“Wavelet Transform in Digital Image Processing: A study”** abstract published in International Conference on Emerging Trends in Mathematical Sciences (ICETMS-2014), 25-26 July 2014.
- 11) Aziz Makandar and Bhagirathi Halalli **“Comparison of different filtering techniques for digital mammography images”** abstract published in pre-science congress-2014 on the occasion of 102<sup>nd</sup> Indian Science Congress at Mumbai. The International conference held on 30-31 December 2014 by ISCA Aurangabad Chapter, Dr.BAbedkarMarathwad University, Aurangabad, Maharashtra.
- 12) Aziz Makandar and Anita Patrot, **”Comparison of Compression techniques-A Virtual Review”**, Pre Science Congress-2014, Conference on Science and Technology for Human Development 30-31 Dec 2014.

- 13) Aziz Makandar and Bhagirathi Halalli, “**Threshold Based Segmentation Technique for Mass Detection in Mammography**”, 5th International Conference on Information Communication and Management (ICICM 2015), Paries, France, 12-13 October 2015
- 14) Aziz Makandar and Bhagirathi Halalli “**An Efficient Preprocessing Technique for Mammography Images**” 5<sup>th</sup> IEEE IACC 2015 Organized by BMS college of engineering Bangalore. 12-13 June 2015.
- 15) Aziz Makandar and Anita Patrot,“**Malware Image Analysis and Classification using Support Vector Machine,**” International Conference on Emerging Trends in Engineering and Management (ICETEM 2015), October 27 2015
- 16) Aziz Makandar, Anita Patrot, “**Texture Feature Extraction of Malware Gray Scale Image Using M-band Wavelet**” International Conference on Communication Network and Signal Processing ICCCNSP-2015, ISBN:978-93-85880-73-5. PP.176-183.
- 17) Aziz Makandar, Bhagirathi Halalli “**Combined Segmentation Technique for suspicious mass detection in mammography**”IEEE International Conference on trends in Automation, Communication and Computing Technology, (IEEE ITACT-2015) Organized by Acharya Institute of Technology, Bangalore. 21-22 Dec 2015.
- 18) Aziz Makandar and Anita Patrot, “**Malware Analysis and Classification using Artificial Neural Network,**” IEEE Proceedings. International Conference on Automation, Communication and Computing Technologies (ITACT 2015), December 22 and 23, Bangalore.
- 19) Aziz Makandar and Anita Patrot, ”**Malware Image Analysis and Effctive Texture Feature Extraction Using Gray Level Co occurrence Matrix**”, 103<sup>rd</sup> Indian Science Congress ,Mysuru 2016, PP 56
- 20) Aziz Makandar, Bhagirathi Halalli “**Watershed Segmentation Technique For Abnormality Identification in Mammography**”, 103<sup>rd</sup> Indian Science Congress ,Mysuru January 3-7 2016, PP 55.

### **III. National Conference**

- 01) “**Transfer Bitrate Analysis of JPEG 2000 with EZW Coding System**”, National Conference on Recent Trends in Information Technology Prospects, Dept. of Computer Science and Engineering, Royal Institute of Technology and Science, 3-4, Feb. 2006.

- 02) **“Medical Image Compressions using JPEG 2000 with Embedded Zero Tree Wavelet Coding”** Recent Trends in Computer Science and Information Technology, Dept. of Computer Science and Information Technology, GND College of Engineering, Bidar, Karnataka, 8-9, May 2009, PP 23-26.
- 03) **“A Critical Compression of Image Compressions Algorithms”**, Recent Trends in Computer Science and Information Technology, Dept. of Computer Science and Information Technology, GND College of Engineering, Bidar, Karnataka, India, 8-9, May 2009, PP 66-69.
- 04) **“Application of Mobile Ad Hoc Networks Routing Protocols in Wireless Sensor Set of Connection”**, National Conference on Advanced Computing and Communication (NCACC 12), Dept. of PG Studies and Research in Computer Science, 27-28, April 2012, PP 17-23.
- 05) **“Presentation Evaluation of Mobile Ad-hoc Network Routing Protocol”**, National Conference on Advance Computing and Communications (NCACC 12), Dept. of PG Studies and Research in Computer Science, 27-28, April, 2012, PP 9-15.
- 06) **“Artificial intelligence with Autonomous Agent System in E-Commerce”** National Conference on Social Aspects in Marketing Management For 21<sup>st</sup> Century, K S W University, bijapur, pp 45-51, 21 & 22 Nov 2013
- 07) Aziz Makandar, Anita Patrot, Nasrin, **“Performance and Analysis of Artificial Intelligence and Neural Networks”**, National Conference on Recent Advances in Information Technology (NCRAIT-2014), Dept of Computer Science, Solapur University, Solapur (MS), PP 169-176, 15 & 16 Feb 2014
- 08) Aziz Makandar and Anita Patrot, **“Biometric Image Lossless Compression Techniques and its Performance”**, 7th National Women’s Science Congress, Rastriya Mahila Vijnana Sammelana, 7-9 th November 2014, Karnataka State Women’s University, Vijayapura.
- 09) Aziz Makandar and Bhagirathi Halalli **“Different Denoising Techniques for Digital Mammography Image-A Review”**, abstract published in Women science congress jointly organized by SVAK, Bangalore and KSWU, Vijayapura, 7-9 November 2014.
- 10) Aziz Makandar and Bhagirathi Halalli **“A review on preprocessing techniques for digital mammography images”**, First national conference on digital image and signal processing



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**Place: Vijayapur**

**Dr Aziz Makandar**

**Date:**