BIO-DATA

Name : Anil Renukadas Karwankar

Designation: Associate Professor

Experience: Teaching : 30 years Industry 02 years

Educational Qualifications: PhD Electronics Engineering

Ph.D. topic: Development of Online Handwriting Development System(Devanagari)

Recognized Ph.D. guide at:Dr. B.A. Marathwada University & VTU Belgaum

Research Areas: Image Processing, Pattern Recognition , Artificial Intelligence Systems

Research Project Completed:1. DRDO Project 2. Departmental Seed Money Project

Member of Professional Bodies: MIE, LMISTE

Reviewer of Journals:03 Publications:

List of Publications from August 2012

Sr. No.	Details
1	A.R. Karwankar and Santosh Kulkarni, "IVRS for College Automation," International journal and advanced research in computer and communication Engineering, Volume 1, Issue 6,ISSN : 2278 - 1021, August 2012.PP 449 – 453
2	Dr. A. R. Karwankar , Dayanand S. Shilwant, "Student Monitoring by Face Recognition System". International Journal of Electronic, Communication & Soft Computing Science and Engineering (IJECSCSE) ISSN 2277-9477, Volume 2, Issue 2. OCT 2012
3	A.R. Karwankar, S. N. Kulkarni "Thyrod Disease Detection Using Modified Fuzzy Hyperline Segment Clustering Neural Network," International Journal Of Computers And Technology, Vol 3 No. 3, ISSN: 2277-3061, Dec 2012.
4	A.R. Karwankar, V. V. Kamble " A Critical review of recognizing emotions in speech" International Journal of Computer science and application issue Dec 2012 ISSN 0974-767
5	Prof. Anil R. Karwankar , Bhavana Bendale "International Journal of Electronics, Communication & Soft Computing Science and Engineering" ISSN:2277-9477, Volume2, Issue1 5Moving Object Tracking in Video Using MATLAB @2012
6	Dr. A.R. Karwankar, Vitthal Bhosale February, 2013 Automatic static signature verification systems: a review International journal of computational engineering research (ijcer) ISSN : 2250-3005 PP. 08 – 12
7	Dr. A.R. Karwankar, Maheshkumar Badmera, Ajinkya Nilawar 20-21 March 2013 Modified FCM approach for MR brain image segmentation page No. 891-896 Circuits, Power and Computing Technologies (ICCPCT), 03,2013 IEEE

	International Conference DOI: .1109/ICCPCT.2013.6528885 ISBN:978-1-4673-4921-5	
8	Dr. A.R. Karwankar, Mayur Gore 2014 Human Computer Interaction using Hand Gesture Recognition International Journal of Engineering Research & Technology (IJERT),April 2014ISSN: 2278-0181	
9	Dr. A.R. Karwankar, Prateek Varma 2014 Moving object detection and tracking International Journal of Engineering Research & Technology (IJERT),April 2014 ISSN: 2278-0181	
10	Dr. A.R. Karwankar,Vaibhav Kambale 24/03/2014 Emotion Recognition for Spoken WordInternational Conference ICTBM-2014 Dubai	
11	Dr. A.R. Karwankar, Rajendra Chaudhary 26/03/2014 Students monitoring by face recognition system International Conference ICTBM-2014 Dubai	
12	Dr. A.R. Karwankar, Vaibhav Kambale 2015 Emotion Recognition for Instantaneous Marathi Spoken Words © Springer International Publishing Switzerland 2015DOI: 10.1007/978-3-319-12012-6_37	
13	Dr. A.R. Karwankar,Deepak Chincholkar January 2015Dynamic Signature Verification System International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	
14	Dr. A.R. Karwankar,Tushar Darote, 2015 Moving object detection and tracking using Multiple Webcam International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	
15	Dr. Anil R. Karwankar, Dhanshri R. Pange, Speech Recognizing Robotic Arm for Writing Process International Journal of Recent Research in Electrical and Electronics Engineering (IJRREEE) Vol. 2, Issue 1, pp: (24-31), Month: January - March 2015, Available at: www.paperpublications.org Paper Publications	
16	Dr. A.R.KARWANKAR. G.V. AMBADKAR Radio Frequency Identification And Fingerprint Based Student Attendance System International Journal of Industrial Electronics and Electrical Engineering, ISSN: 2347-6982 Volume-3, Issue-4, April-2015	
17	Dr. A.R. Karwankar, Sunita Ramesh Rajmane Dec. 2015 Voice enabled device control using arm processor International Journal of Engineering Sciences & Research Technology ISSN: 2277-9655	
18	Dr. A.R. Karwankar, Kailash Sharma Devnagari Online Character Recognition System. Proceedings of 6th National Conference on Indian Language Computing NCILC-2016 26th & 27th February, 2016 in Cochin University Of Science And Technology (CUSAT), Kerala ISBN 978-93-80095-75-2	
19	Dr.A. R. Karwankar , S. D. Mitragotri Coal Mine Robot for Detection of Hazardous Gas ISSN (Print) : 2320 – 3765 ISSN (Online): 2278 – 8875 International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (An ISO 3297: 2007 Certified Organization)Vol. 5, Issue 4, April 2016 Copyright to IJAREEIE DOI:10.15662/IJAREEIE.2016.0504124	
20	Pratibha S. Dodake and Anil R. Karwankar Image Based Classification of Normal and SpecialPeople using Constrained Local Model 2016 International Conference on Communication and Signal Processing (ICCSP) Date of Conference: 6-8 April 2016 Date Added to IEEE Xplore: 24 November 2016 ISBN Information: INSPEC Accession Number: 16498248 DOI: 10.1109/ICCSP.2016.7754366 Publisher: IEEE	

21	Saurabh Umarkar, Anil Karwankar "Automated seedsowing agribot using arduino ,"International Conference on Communication and Signal Processing(ICCSP), 2016 Date of Conference: 6-8 April 2016 Date Added to IEEE Xplore: 24 November 2016 ISBN Information: INSPEC Accession Number: 16488797 DOI: 10.1109/ICCSP.2016.7754380 Publisher: IEEE
22	Piyush K. Surkar and A. R. Karwankar Automatic Testing of Soil Samples Using Ion Selective Electrodes (ISEs) Page. No. 2176 Date of Conference: 6-8 April 2016 Date Added to IEEE Xplore: 24 November 2016 ISBN Information:INSPEC Accession Number: 16488785 DOI: 10.1109/ICCSP.2016.7754567 Publisher: IEEE
23	Anil karwankar,Suhas B. Dhoke, Varsha Ratnaparkhe Estimation Of Hemoglobin Using A I Technique 2017 1st International Conference on Intelligent Systems and Information Management (ICISIM) Date of Conference: 5-6 Oct. 2017 Date Added to IEEE Xplore: 01 December 2017 ISBN Information: INSPEC Accession Number: 17411035 DOI: 10.1109/ICISIM.2017.8122147 Publisher: IEEE
24	Dr. Anil Karwankar, Yogesh Taru,Water Monitoring System Using Arduino with LabVIEW 2017 International Conference on Computing Methodologies and Communication (ICCMC)Date of Conference: 18-19 July 2017 Date Added to IEEE Xplore: 08 February 2018 ISBN Information:INSPEC Accession Number: 17544928 DOI: 10.1109/ICCMC.2017.8282722 Publisher: IEEE
25	Ms. V A Kulkarni, Dr. A R Karwankar Thyroid Disorder Detection And Review Of Existing Thyroid Segmentation Techniques (Page: 939-947) UGC Approved International Journal of Advances Research in Science and Engineering (IJARSE)
26	Ms. V A Kulkarni, Dr. A R Karwankar Thyroid Disorder Detection And Review Of Existing Thyroid Segmentation Techniques IETE Pune Conference - 3rd International Conference on Emerging Trends in Engineering and Management Research (ICETEMR-17) 30 July 2017 Pune
27	Pooja Pakolu Dr. Anil Karwankar Anurag Nigam Design of GaAs MMIC 6-bit Digital Phase Shifter 2018 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2018), MAY 18th & 19th 2018 978-1-5386-2440-1/18/$31.00 ©2018 IEEE
28	Farooq Azam, Dr. A.R.Karwankar ,Mr. Giridhar Isola Generating Timing and Control Signals for C-Band T/R Module using FPGA 2018 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2018), MAY 18th & 19th 2018 978-1-5386-2440-1/18/$31.00 ©2018 IEEE
29	Shweta K. Gaikwad ,Dr. Anil R. Karwankar Food Image 3D Reconstruction Using Image Processing Proceedings of the Third International Conference on Trends in Electronics and Informatics (ICOEI 2019) IEEE Xplore Part Number: CFP19J32-ART; ISBN: 978-1-5386-9439-8 978-1-5386-9439-8/19/$31.00 ©2019
30	Dr. Anil R. Karwankar, Aishwarya Nalawade Comparison of Methods for Document Restoration and Character Retention and Study of Marathi Character Recognition Processing Proceedings of the Third International Conference on Trends in Electronics and Informatics (ICOEI 2019) DVD Part Number: CFP19J32-DVD; ISBN: 978-1-5386-9438-1 978-1-5386-9439-8/19/$31.00 ©2019 IEEE

1	A.R. Karwankar, "*Stroke Pattern Identificatio in Devanagari Character Recognition*," IJAEA: An International Journal of Advanced Engineering & Applications, Print ISSN : 0975 – 7783Online ISSN : 0975 – 7791, 26th January2010
2	A.R. Karwankar, "*Devanagari Character Recognition using Neural Approach*," IJERIA International Journal of Engineering Research and Industrial Applications, ISSN-0973-9424Vol-3,N0II/III/IV,2010.
3	A.R. Karwankar, "*Devnagari character recognition using self organizing maps*," IEEE Explorer,page(s): 687–691 ,ISBN: 978-1-4244-7769-2 INSPEC Accession Number: 11745410 DOI: 10.1109/ICCCCT.2010.5670752,7-9Oct.2010
	Year 2011
4	A.R. Karwankar, "*Devanagari stroke pattern Identification*," International Journal of Power, Control, Signal And Computation IJPCC,April 2011.
	Year 2012
5	A.R. Karwankar and Santosh Kulkarni, "*IVRS for College Automation*," International journal and advanced research in computer and communication Engineering, Volume 1, Issue 6,ISSN : 2278 1021, August 2012.
6	A.R. Karwankar, "Thyrod Disease Detection Using Modified Fuzzy Hyperline Segment Clustering Neural Network," International Journal Of Computers And Technology, Vol 3 No. 3, ISSN: 2277-3061, Dec 2012.

	Year 2013
7	A.R. Karwankar and DynanandShilwant, "*Student Monitoring By Face Recognition System*," International Journal of Electronics, Communication & Soft Computing Science and Engineering, Volume 2, Issue 2, ISSN: 2277-9477 2013
8	A.R. Karwankar, "*Automatic static signature verification systems: a review*," International journal of computational engineering research, Volume 3, issue 2, ISSN: 2250-3005 PP. 08 – 12,February, 2013.
9	A.R. Karwankar, "*Moving Object Tracking In Video Using MATLAB*," International Journal Of Electronics, Communication & Soft Computing Science And Engineering, Volume 2, Issue 1, ISSN: 2277-9477, 5 -9 Apr 2013.
	Year 2014
10	A.R. Karwankar and Mayur Gore, "*Human Computer Interaction using Hand Gesture Recognition*," International Journal of Engineering Research & Technology (IJERT),April 2014, Vol. 3 Issue 4, ISSN: 2278-0181
11	A.R. Karwankar and Vaibhav Kambale, "*Emotion Recognition for Instantaneous Marathi Spoken Words*," © Springer International Publishing Switzerland 2015, Vol.2, DOI: 10.1007/978-3-31912012-6_37

12	A.R. Karwankar and Sunita Ramesh Rajmane, "*Voice enabled device control using arm processor*," International Journalof Engineering Sciences & Research Technology, ISSN: 2277-9655, December 2015.
13	A.R. Karwankar, "*Devanagari Character recognition using Kohonens Network*," International Conference @ KITS 2009, December 2009.

YEAR 2013
A.R. Karwankar and MaheshkumarBadmera and AjinkyaNilawar, "*Modified FCM approach for MR brain image segmentation*," Circuits, Power and Computing Technologies, 03,2013 International Conference,pageNo. 891-896, DOI: 10.1109/ICCPCT.2013.6528885,ISBN:978-1-4673-4921-5, 20-21 March 2013

YEAR 2014
A.R. Karwankar and Vaibhav Kambale, "*Emotion Recognition for Spoken Words*," ICTBM, MC3, 3/24/2014,4122
A.R. Karwankar and RajendraChaudhary, "*Students monitoring by face recognition system*," ICTBM, MC3, 3/24/2014,4123.

YEAR 2015
A.R. Karwankar and Deepak Chincholkar, "*Dynamic Signature Verification System*," ICNTE,2015.
A.R. Karwankar and Tushar Darote, "*Moving object detection and tracking using Multiple Webcam*," 2015.

National Conference Publications
YEAR 2004
A.R. Karwankar, "*Image Compression Techniques*," Organized by Dept of Computer Science, Dr. BAMU, Aurangabad, January 4-5,2004
A.R. Karwankar, "*E- Comm Security*," Organized by Dept of Computer Science, Dr. BAMU, Aurangabad, January 4-5,2004
YEAR 2005
A.R. Karwankar, "*Motion Detection System*," National Conference on NCAETE, February 25-26,2005.
A.R. Karwankar, "*EMI / EMC & design consideration for embedded systems*," National Conference on NCAETE, February 25-26,2005.
A.R. Karwankar,"*MOEMS*," National Conference on NCAETE, February 25-26,2005.
YEAR 2006
A.R. Karwankar, "*E- learning & Case study*," ISTE Conference organized by GECA, November 30, 2006.
A.R. Karwankar, "*Modern teaching Techniques*," EECDV workshop at GECA,March 23-24,2006
YEAR 2013

A.R. Karwankar, "*Review Of Static Signature Verification Systems*," IEEE Bombay Section Sponsored National Conference-NCRTWWC,Mar.15.2013

Conferences / Workshop Organized:

1.National Conference TSYGECA -06 GEC Aurangabad

2. Matlab 6.5 Workshop Feb 2004 GEC Aurangabad

Short Term Training Programme Organized:

1. Certificate Course on Signal & Image Processing (3 Batches)
2. STTP of one week on Signal & Image Processing (Under TEQIP II)

Expert Lectures Presented:

1. E-learning , Dr. BAM University, Aurangabad
2. E-learning , Government Polytechnic, Aurangabad
3. E-learning ,Devgiri Engineering College, Aurangabad
4. ANN STTP ,Devgiri Engineering College, Aurangabad
5. Artificial Neural Networks STTP IT department , G.E.C. Aurangabad
6. Expert Lecture on Pattern Recognition and ANN GEC Aurangabad

Short Term Training Programmes Participated:

Dr. Anil R. Karwankar Online Courses /Faculty Development Program/Workshops				
1	FDP on Digital Forensics and Security Research	2020-04-25	2020-04-29	TEQIP-III GCE Karad
2	Faculty Awareness Program on NBA	2020-05-13	2020-05-13	Bharati Vidyapeeth College of Engineering, Navi Mumbai
3	Digital Transformation in Teaching Learning Process	2020-04-06	2020-04-24	SWAYAM
4	Machine learning Module-I	2020-05-02	2020-05-02	Organized byDeltiin India Tech Pvt. Ltd.
5	Session on FEKO	2020-04-25	2020-04-25	Altair Design Tech Systems
6	FDP on AI and ML	2020-05-16	2020-05-20	TEQIP-III Civil Department GCE Karad
7	Learn Ethical Hacking in 10 Hours	2020-04-11	2020-04-11	Edureka
8	FDP on Outcome Based Education : A Step Towards Excellence	2020-05-11	2020-05-15	AICTE AND GCE KARAD
9	FDP on Matlab and Ansys	2020-04-27	2020-05-01	GCE Karad
10	ONE WEEK ONLINE FACULTY DEVELOPMENT PROGRAMME on SIGNAL, IMAGE SIVPAPA-2020	2020-05-26	2020-05-30	Department of Electronics GCE Karad

1. Soft Computing Tools & its Applications in Engineering (20.06.2011 to 01.07.2011), Government College of Engineering, Aurangabad
2. Skill Matrix Enhancement and effective Teaching-learning for quality Technical education, (28.11.2011 to 09.12.2011), Government College of Engineering, Aurangabad
3. Engineering Optimization Techniques and its application in Research, (02.01.2012 to 12.01.2012), Government College of Engineering, Aurangabad
4. Emerging trends in microwave and micro strip devices, (07.05.2012to

11.05.2012), MIT Aurangabad

5. Self Management and Team Management for Success Breaking the Barriers (18.09.2012), Government College of Engineering, Aurangabad

6. Genetic Algorithm and Neuro Fuzzy Applications in Engineering, (17.12.2012 to 21.12.2012), Government College of Engineering, Aurangabad

7. NBA Workshop for Training Resource Persons on Outcome based Accreditation – Phase I & II, (29.04.2013 & 17.05.2013 to 19.05.2013), C. O. E. Pune

8. Soft Computing Tools and its Applications in Engineering, (03.06.2013 To 07.06.2013), Government College of Engineering, Aurangabad

9. System Design using FPGA, (24.06.2013 to 28.06.2013), Government College of Engineering, Aurangabad

10. MSP 430 and its application and ASD with ASLKv2010 Starter kit, (20.09.13 to 24.09.13), Government College of Engineering, Aurangabad

11. Network Security, (07.10.2013 to 11.10.2013), Government College of Engineering, Aurangabad

12. Research Methodology Concepts and tools, (16.12.2013 to 20.12.2013), Government College of Engineering, Aurangabad

13. Computer Networking using Windows Server, (17.11.2014 to 21.11.2014), NITTTR, JNEC Aurangabad

14. Pedagogy to Synergogy, (07.12.2015 to 11.12.2015), Government College of Engineering, Aurangabad

15. Advances in Digital Signal Processing, (03 and 04 Dec, 2015), Government College of Engineering, Aurangabad

16. Wavelet Theory, (12.04.2016 and 13.04.2016), Government College of Engineering, Aurangabad

17. Signal & Image Processing 2017, (06.02.2017 to 10.02.2017), Government College of Engineering, Aurangabad