

Name:- Dr. Kavita Anandrao Khobragade

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Member Of:-

College Committees	Other Committees
Research Coordination Committee	ACM Journal (Professional Member)
Departmental IQAC	International Journal of Biometrics (Editorial Member)

Research Done:

<p>Successfully completed Ph.D. on 30th March 2015 from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad under the Guidance of Dr. K. V. Kale (Director BCUD).</p> <p>Thesis topic entitled “Iris Image Features Extraction: A Multiwavelet Approach”, is fully based on Image Processing and Pattern Analysis.</p> <p>The automatic identification of an individual is based on the biometric system which provides the unique features of an individual. Iris Recognition is the most reliable and accurate</p>
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biometric identification system available. But system needs full cooperation of the subject while iris image acquisition process is going on.

The work present in this thesis involved developing an iris recognition system to verify the uniqueness of human iris and find its performance as a biometric. The performance is determined by three databases of digitized grayscale and colour iris images namely KVKIris Database, CASIA database and PALACKY database.

The iris image segmentation algorithm was developed by me and the iris image is segmented by using a newly developed iris localization algorithm called “*KKLocal*”. The segmented iris region was normalized into rectangular block to avoid image inconsistencies and then features were extracted by using wavelets (Bior, Symlet, Daubechies, Haar, Coif) and multi-wavelets (GHM, IGHM, DD2, GHMAP, GHMAP2) which are quantized to first level decomposition for unique patterns of iris.

Feature level fusion technique was also employed to find the best technique for feature extraction and to get most compact features.

Area of Interest in Research:

Image Processing, Computer Networks, Cryptography, Databases, Software Engineering

Books Published:

Name of Book	Author(s)	ISBN No.	Year	Edition	Publisher
Data Structures Using 'C'	Manisha Bharambe Kavita Khobragade	935164025-6	2014	1 st Edition	Nirali Publication
Object Oriented Concepts in C++	Manisha Bharambe Kavita Khobragade	935164293-7	2014	1 st Edition	Nirali Publication
Software Engineering	Kavita Khobragade	935164292-5	2014	1 st Edition	Nirali Publication
Object Oriented Software	Kavita Khobragade	935164561-4	2015	1 st Edition	Nirali

Engineering					Publication
Programming in JAVA -I	Dr. Kavita Khobragade, Nilesh Magar	935164565-7	2015	1 st Edition	Nirali Publication

Research publications:

Journal Publications:

1. Kavita Khobragade, "Knowledge Management in Image Processing Applications", *Online Peer Review International Research Journal of Signal Processing (IRJSP)*, Volume 03, Issue 1, January-April 2012, [ISSN: 2249-6505].
2. Kavita Khobragade, Dr. K.V. Kale, "An Iris Localization Algorithm : A Review", *International Journal of Advances in Management, Technology & Engineering Sciences (IJAMTES)*, Vol. 1, Issue 6 (IX), March 2012, pp- 194-197, [ISSN : 2249-7455]
3. Kavita Khobragade, "Biometric Characteristics and Their Applications: A Review", *International Journal of Computer Science and Application*, (IJCSA 2012), Issue III, pp-06-12, [ISSN: 0974-0767].
4. Kavita Khobragade, "Study and Comparison of Iris Edge Detection Technique", *Online Peer Review International Journal of Computer Architecture and Mobility*, [ISSN: 2319-9229], Volume 1, Issue 5, March 2013.
5. Kavita Khobragade, Dr. K.V. Kale, "Iris Edge Detection with Bit-plane Slicing Technique", *International Journal of Computer Applications*, [ISSN : 0975-8887]
6. Kavita Khobragade, Dr. K.V. Kale, "A New Technique for Fast and Accurate Iris Localization", *Online Peer Review International Journal of Innovations in Engineering and Technology*, (IJIET), Volume 3, Issue 3, February 2014, pp-25-32, [ISSN: 2319-1058].
7. Kavita Khobragade, Dr. K.V. Kale, "Multi-wavelet Based Feature Extraction Algorithm For Iris Recognition", *International Journal of Engineering And Innovative Technology (IJEIT)*, Vol. 3, Issue 12, June 2014.
8. Kavita Khobragade, Dr. K.V. Kale, "Feature Level Fusion using Multi-wavelet Based Iris Feature Extraction", *International Journal of Current Engineering and Technology (IJCET)*, *Impressco International Press Corporation*, Vol. 4, No. 5, October 2014. [E-ISSN: 2217-4106; P-ISSN: 2347-516].

Conference Publications:

1. Kavita Khobragade, Dr. K.V. Kale, “An Iris Localization Algorithm : A Review”, *International Conference on Current Trends and Challenges in Management, Engineering, Computer Applications and Technology*, (ICCTCMECAT-2012), 23-25 March 2012, Organized by Deogiri College of Engineering and Management Sciences, Aurangabad, (MS), 431005, India.
2. Kavita Khobragade, Dr. K.V. Kale, “Iris Edge Detection with Bit-plane Slicing Technique”, *Proceeding of National Conference on Recent Advances in Information Technology* (NCRAIT-2014), 15-16 February 2014, pp-1065-1075, Organized by Dept. of Computer Science and Computer Applications, School of Computational Sciences, Solapur University, Solapur, (MS), 413255 India.
3. Kavita Khobragade, Dr. K.V. Kale, “Iridodialysis: Open Challenges and Issues in Iris Recognition”, *Elsevier Science and Technology Publication and Proceeding of International Conference on Recent Trends in Engineering Sciences* (ICRTES-2014), 15-16 March 2014, pp-142-145, Organized by Spvryan International, Nashik, (MS), India[ISBN : 978-93-5107-223-2].

Seminars and Workshops Attended:-

Actively participated and attended one day workshop on “Syllabus Restructuring of T.Y. B.Sc. (Computer Science)”, at H.V. Desai College, Pune on 27th Feb 2015.