

## Faculty Biodata

**Name of Teaching Staff** Ruhina B. Karani  
**Designation** Assistant Professor  
**Department** Computer Engineering  
**Date of Joining the Institution** 5.7.2013



**Professional Memberships** **ISTELM**

### **Qualifications with Class/Grade:**

1. M.E. Computer Engineering from University of Mumbai, First class with distinction in October, 2012.
2. B.E., Computer Engineering from University of Mumbai, First Class with Distinction in May, 2007.

**Total Experience in Years: 08 Years**

### **Teaching: 08 Years**

- Assistant Professor, in computer engineering department of D. J. Sanghvi College of Engineering since 05/07/2013 till date.
- Assistant Professor (Adhoc), in information technology department of D. J. Sanghvi College of Engineering From 20.7.2011 to 30.6.2013.
- Lecturer, K.J. Somaiya College of Engineering from 5.1.2009 to 19.7.2010.
- Lecturer (Temp.), K.J. Somaiya College of Engineering from 24.3.2008 to 26.12.2008.
- Lecturer, K.E.S's N.N. Patil College of Engineering from 11.9.2007 to 19.3.2008.

### **Courses Taught:**

- Machine Learning
- Digital Signal and Image Processing
- Human Machine Interaction
- Database Management System
- Operating Systems
- Software Architecture

### **Projects Guided:**

- B.E. Project: **25**

### **Academic Duties:**

- Examination Coordinator
- Project Coordinator
- Member of Department Advisory Board
- Alumni Coordinator
- F.E. Mentor

- Member of NBA Committee
- Member of NAAC Committee
- Member of admission Committee
- Class-Incharge

**Workshop, lecture series & Conferences Conducted:**

- Organized AICTE-ISTE Sponsored Short Term Training Program entitled, “Insights of Machine Learning and Deep Learning”.
- Organized Faculty Development Program entitled, “R and Python Programming”
- Organized Expert Session on “Imparting Social values and Ethics to Students”
- Organized a State Level Project Competition, DJ-ASCII
- Member of Organising/Finance Team of International Conference, ICACTA
- Conducted expert lecture on “Digital Signal and Image processing”
- Conducted expert lecture on “Database management systems”
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**Research Activity:**

- Received minor research grant from University of Mumbai for conducting research on “**Optimal Harvesting of Rainwater using Simulation based on GIS and Weather Modeling Systems**”.

**Publication & Conferences: (Till Date)**

**Papers presented in International Journal: 12**

1. Published a paper on “3D Visualization of Products for Online Shopping”, IJCA, Vol-132, Issue-5, December-2015.
2. Published a paper on “A survey of Image Registration Techniques using Neural Network”, IJCSE, Vol-3, Issue-12, December-2015, ISSN 2347-2693.
3. Published a paper on “Face Aging Simulation”, IJCA, Vol-131, Issue-11, December-2015
4. Published a paper on “Detection of Landing Areas for Unmanned Aerial Vehicles”, IJCA, Vol-131, Issue-2, December-2015, ISSN 0975-8887.
5. Published a paper on “2D to 3D Image Morphing Techniques” International Journal
6. Published a paper on “Predicting Pool Ball Trajectories” International Journal
7. Published a paper on “Interpretation of Indian Sign Language through Video Streaming” International Journal
8. Published a paper on “3D Visualization of Products for Online Shopping” International Journal
9. Published a paper on “Face Aging Simulation” International Journal.
10. Published a paper on “A Survey of Image Registration Techniques Using Neural Networks”
11. Published a paper on “Detection of Landing Areas for Unmanned Aerial Vehicles”
12. Published a paper on “Real Time Eye-Tracking using Web Camera” in International Journal of Engineering Research and Technology, Volume-3, Issue 11, Nov 14

**Papers presented in International Conference: 08**

1. “Image Registration using Discrete Cosine Transform and Normalized Cross Correlation”, International Journal of Computer Application, Digital Library URL <http://www.ijcaonline.org/proceedings/icwet2012/number2/5323-1014> (ISBN 973-93-80864-48-5).
2. “2D Satellite Image Registration using transform based and correction based methods” International Journal of Advanced Computer Science and Applications (IJACSA), Vol.3 No. 5, PP 64-7, May 2012.
3. “A deviant transform based approach for color image registration”, IEEE Explore, October 2012.

4. “Baby Mentor: Learning Through Images” in IEEE sponsored ICIECS’17 held on 17/03/17 - 18/03/17
5. “Detection of landing areas for unmanned aerial vehicles.” 2016 International Conference on Computing Communication Control and automation (ICCUBEA) (2016): 1-5.
6. “Tracking of Entities in Multi-Sport Field”, International Conference on Advanced Computing Technologies and Applications (ICACTA- 2015), Procedia Computer Science 45 ( 2015 ) Elsevier publication, pg. 300 – 304
7. “Deep Learning for Detection and Severity Classification of Dibetic Retinopathy”, 1st International Conference on Innovations in Information and Communication Technology (ICIICT 2019), IEEE Conference Record No:46602, ISBN No:978-1-7281-1603-7 at St. Peter's College of Engineering and Technology, Avadi, Tamilnadu, India on 25th April 2019
8. “Optimization of Rainwater Harvesting Sites using GIS” 5th International Conference on Geographical Information Systems Theory, Applications and Management (GISTAM 2019) at University of Crete, Heraklion, Crete-Greece on 4th May 2019.