

Dr. Udhav Bhosle, Ph.D. (IIT Bombay)

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Name in Full : **Dr. UDHAV VENKATRAO BHOSLE**

Present employment : **Principal,**
MCT's Rajiv Gandhi Institute of Technology, Mumbai
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Date of Birth : January 24, 1967

Nationality : Indian

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- Currently working as the **Principal**, MCT's Rajiv Gandhi Institute of Technology (RGIT), Mumbai, from May 2007. RGIT is established in 1992, an ISO 9001:2008 certified institutions, permanently affiliated to Mumbai University, approved by All India Council for Technical Education (AICTE), New Delhi and three UG Programs have been provisionally accredited by **National Board of Accreditation (NBA), New Delhi**. RGIT a leader in technical education in the state of Maharashtra imparting quality Engineering education. Reputed institution in the University for its Outstanding Contributions in education and its commitment to society at large. RGIT offers five under graduate (B.E.), three post graduate (M.E.) and three Ph.D. programme. Managing More than 2500 students, 126 faculty and 130 technical, admin and support staff on campus.
 - **Director (Technical)**, Vilasrao Deshmukh Foundation and Manjara Charitable Trust (MCT), Latur from Jan 2009 to September 2010. As a Director, started three technical institutions from concept, developed infrastructure, laboratories and recruited teaching and nonteaching staff in record time.
 - Visited **United Kingdom** during the week of 15th to 20th April 2012 as an Indian participant to participate biennial Ministerial UK-India Science and Innovation Council meeting on behalf of Department of Science and Technology, Government of India.
 - Teaching Experience spanning **28 years** with a **PhD from IIT Bombay**, a thesis titled "*Investigations in Image Mosaicing under different Problem Definitions*" under the guidance of **Prof. (Dr) Subhasis Chaudhari**, Professor in Electrical Engineering **IIT Bombay**, recipient of **Shanti Swarup Bhatnagar award** in Engineering Science 2004 and G D Birla award for Scientific Research 2011.
 - **Vice President (Technical)**, Vilasrao Deshmukh Foundation, Latur, Maharashtra, from Oct 2010 to Oct 2013.
 - Published more than 30 papers, delivered number of technical talks.
 - **Chairman**, Board of Studies in Electronics & telecommunication Engineering, University of Mumbai since Nov 2012 to Nov 2015.

- **November 2012 to November 2015 :-**
 - Member Academic Council, University of Mumbai.
 - Member of the Faculty of Technology, University of Mumbai.
 - Member of the Board of University Teaching and Research for the Faculty of Technology, University of Mumbai.
 - Member of the Research and Recognition Committee for Board of Studies in Electronics and Telecommunication Engineering, University of Mumbai.
- Worked as Consultant for IIP (Indian Intellectual Property) Services, USA from July 2004 to August 2008.
- Member, Board of Studies Electronics and Communication Engineering, Faculty of Technology, SNDT Women's University Mumbai from March 2014.
- Member Board of Studies in Electrical Engineering, University of Mumbai from August 2005 to August 2010.
- Involved in key Research & Development Projects.
- Involved in conducting all India Examinations like GATE, JEE, ISAT and ICRB as a Presiding Officer.

Teaching Experience

25 years

Name of Institute	Period	Designation
MCT's Rajiv Gandhi Institute of Technology, Mumbai	From 31 st May 2007 onwards	Principal
Ramrao Adik Institute of Technology, Navi Mumbai	December 2005 to May 2007	Principal & Professor of Electronics Engineering
M.G.M. College of Engineering and Technology, Mumbai	July 2002 to November 2005	Professor and Head of Department , Electronics and Telecommunication
M.G.M. College of Engineering and Technology, Mumbai	October 1997 to July 2002	Assistant Professor in Electronics and Telecommunication Engg
M. G. M. College Engineering and Technology, Nanded	July 1990 to September 1997	Lecturer in Electronics and Telecommunication Engg.

Educational Background

Name of Course	Name of Institute	Year	Grades
Ph.D. (Electrical Engineering)	Indian Institute of Technology, (IITB Bombay, Mumbai .)	2004	-
M.E. (Communication Engineering)	SGGS Institute of Engineering and Technology, Nanded.(MH)	1995	62% (First Class)
B.E. (Electronics Engineering)	SGGS Institute of Engineering and Technology, Nanded(MH)	1989	62% (First Class)
Std 12 (HSC)	Maharashtra State Board of Secondary and Higher Secondary, Aurangabad	1984	74%, PCM 97% (First Class)
Std 10 (SSC)	Maharashtra State Board of Secondary and Higher Secondary, Aurangabad	1982	84% (Distinction)

Membership of Professional Institutes or societies

- Life Member, Indian Society for Technical Education (LMISTE), New Delhi (No. LM15692)
- Fellow, Institution of Electronics and Tele-communication Engineer (FIETE), New Delhi (No.F156349)
- Chairman, IETE Mumbai Center from July 2016 to July 2018.
- Member Institution of Electronics and Electrical Engineer (IEEE), No. 90371856
- Member Society for Automotive Engineer (No. SAE 10E234).
- Recognition as Post Graduate Teacher of University of Mumbai.
- Recognition as Ph.D. guide of university of Mumbai, BAMU Aurangabad and SNDT Women University, Mumbai.

Current Areas of interest and Research

Area of Interest	:	Signal & Image Processing, Pattern Recognition
	:	Adaptive Signal Processing, Computer Vision
Area of Research	:	Adaptive Signal Processing, Image Processing, Computer Vision and Pattern Recognition
Post Graduate/Ph.D. Thesis Guided	:	Ph. D. Completed: 04; ongoing: 04 M. Tech. completed – 10

Research & Development Projects

- S. Sengupta, Principal Investigator & **Udhav Bhosle**, Co-principal Investigator, “Modernization of Communication System”, Under MODROB scheme AICTE, June 2001 to August 2004.
- **Udhav Bhosle, Principal Investigator**, “Multispectral Image Registration and Fusion”, Under Research Promotion Scheme (RPS), of AICTE, April 2007.
- **Udhav Bhosle, Principal Investigator**, Consultancy Project of Navi Mumbai Municipal Corporation for Recruitment drives of NMMT staff.
- **Udhav Bhosle, Principal Investigator**, “Modernization of Analog and Digital Communication Engineering Laboratory”, under MODROB Scheme of AICTE, March 2013.

Publications : Journals

- **Udhav Bhosle**, Subhasis Chaudhury and Sumantra Dutta Roy, “A Fast method for Image Mosaicing using Geometric Hashing Technique”, **IETE Journal of Research**, Special Issue on Multimedia Signal Processing, May-June 2002, pages 317-328.
- **Udhav Bhosle**, Sumatra Dutta Roy and Subhasis Chaudhury, “Multispectral Panoramic Mosaicing”, **IEEE Journal of Pattern Recognition letters**, vol. 26, no. 4, March 2005, pages 471-482.
- Manjusha Deshmukh and **Udhav Bhosle**, “A Survey of Image Registration”, International Journal of Image Processing(IJIP), vol 5, issue 3, Pages 245-267, 2011

- Manjusha Deshmukh and **Udhav Bhosle**, “*Image Fusion and Image Quality Assessment of Fused Images*”, *International Journal of Image Processing (IJIP)*, vol(4): Issue (5) Pages 484-508. August 2010.
- Seema Biday and **Udhav Bhosle**, “*Relative Radiometric Correction of Multitemporal Satellite Images*”, *Journal of Computer Science*. Vol9, No. 6, pp. 940-949, ISSN 1549-3636, 2010, **Inder Science Publications**.
- Seema Biday and **Udhav Bhosle**, “*Change Detection in Satellite Images using Radon Transform*”. *Journal of Advances in Science and Technology*. vol 13, No. 1, pp.175-181 ISSN 0971-9563. 2010
- Seema Biday and **Udhav Bhosle**., “*Relative Radiometric Correction of Multitemporal Satellite Imagery using Fourier and Wavelet transform*“, *Journal of Indian Society of Remote Sensing*, vol 3, pp 135- 141, 2014, **Springer Publications**.
- Swapna Borde and Udhav Bhosle, “*Content Based Image Retrieval using Clustering,*” *International Journal of Computer Applications (0975-8887)*, vol 60, no.19, December 2012.
- Swapna Borde and Udhav Bhosle, “*Feature Vectors based CBIR in Spatial and Transform Domain,*” *International Journal of Computer Applications (0975-8887)*, vol 60-No.19, December 2012.
- Swapna Borde and **Udhav Bhosle**, “*Image Retrieval Using Steerable Pyramid,*” *International Journal of Computer Applications (0975-8887)*, vol 38 - No.7, January 2012.
- Swapna Borde and **Udhav Bhosle**, “*Image Retrieval Using Contourlet Transform,*” *International Journal of Computer Applications (0975-8887)*, vol 34 -No.5, November 2011.
- Priti Tyagi & **Udhav Bhosle**, “*Radiometric Correction of Multispectral Images using Radon Transform*”, *Journal of Indian Society of Remote Sensing*, Springer Publications, Volume 3, pages 31-44, July 2013.
- Jyoti Deshmukh and Udhav Bhosle, “*Discovering Optimized Association Rules based on Image Content*”, *Journal of Advances in Image and Video Processing (AIVP)*, Vol 4, No 2 (2016), PP. 10-24.
- Poonam Sonar and **Udhav Bhosle**, “*Optimization of Association Rules for Mammogram Classification*”, *International Journal of Image Processing*, PP 67-83, Vol 11, issue 3, 2017.
- Jyoti Deshmukh and **Udhav Bhosle**, “*GLCM based Improved Mammogram Classification Using Associative Classifier*”, *International Journal of Image, Graphics and Signal Processing*, vol 9, No 7, Pp 66-74, 2017.
- Sanjay Deshmukh & **Udhav Bhosle**, “*MC-CDMA Outage Probability minimization Using Modified De Bruijn Sequence*”, Accepted for publication in *Journal of Telecommunication and Information Technology*, National Institution of Telecommunication Publications
- Jyoti Deshmukh and **Udhav Bhosle**, “*A Study of mammogram Classification Using AdaBoost with decision tree, KNN, SVM and Hybrid SVM-KNN as Component Classifier*”, Accepted for publication in *Journal of Information Hiding and Multimedia Signal processing*, Ubiquitous Publication.
- Poonam Sonar and **Udhav Bhosle**, “*Comparative Study of Different Machine Learning Classifier for Mammogram Brain MRI Images*”, Accepted for Publication in *International Journal on Image Mining*, **Inder Science Publications**.

- **Udhav Bhosle**, Sumantra Dutta Roy & Subhasis Chaudhury, “*Multispectral Panoramic Mosaicing*”, In proceedings International Conference on Advances in Pattern Recognition, Indian Statistical Institute Kolkata, Dec2003, Pages 188-191.
- **Udhav Bhosle**, Subhasis Chaudhury and Santosh Gavali, “*Super-Mosaicing: Mosaicing at High Resolution*”, In Proceedings International Conference on Communication, Indian Institute of Science, Bangalore, 2004, pages 106-110.
- Sujata Pudale and **Udhav Bhosle**, “*Survey of Radiometric Normalization Techniques for Resourcesat1 LISS III Images*”, In Proceeding of International Conference on Computational Intelligence & Multimedia Applications (ICCIMA07), Shivkashi, Tamilnadu (Proceedings published by IEEE Computer Society).
- Sujata Pudale and **Udhav Bhosle**, “*Multivariate Regression Method for Radiometric Correction of High Resolution Satellite Data*”, In Proceedings International Conference on Signal Processing, Communication, Instrumentation and Control, Pune, India, Jan 2008, pages 125-130.
- Manjusha Deshmukh & **Udhav Bhosle**, “*Comparative Study of Image Registration Techniques in Single and Multispectral Band*”, In Proceedings International Conference on Sensors, Signal Processing, Control and Instrumentation (SSPCCIN 07), Vishwakarma Institute of Technology, Pune, India, January 2008, pages 325-329.
- Seema Bidhe, Jyoti Deshmukh and **Udhav Bhosle**, “*Relative Radiometric Correction of Satellite Images using Polynomial Regression*”, In Proceedings 3rd International Conference on Advances in Computing and Communication Technologies (ICACCT08), Panipath, India, November 2008, pages 105-109.
- Priti Tyagi and **Udhav Bhosle**, “*Image Based Atmospheric Correction of Remotely Sensed Images*”, In Proceedings of IEEE International Conference on Computer Applications & Industrial Electronics (ICCAIE2010), Institution of Electrical and Electronics(IEEE) Malaysia, Dec 2010, Kuala Lumpur, Malaysia, Pages 56 -61.
- Jyoti Deshmukh and **Udhav Bhosle**, “*Image Mining using Association rule for Medical Image data set*”. In Proceeding of International Conference on Computation modeling and Security (CMS2016), Bangalore. Elsevier Publications. Science Direct Procedia Computer Science (2016), pp. 117-124.
- Sanjay Deshmukh and **Udhav Bhosle**, “*Performance Evaluation of Spread Spectrum System Using Different Modulation Schemes*”, International Conference on Computational Modeling and Security (CMS 2016), Procedia Computer Science -Elsevier, ISSN: 1877-0509, Volume 85, June 2016, PP. 176–182.
- Sanjay Deshmukh and **Udhav Bhosle**, “*Performance Analysis of Spread Spectrum System over Fading Channel Models*” International Conference on Communication and Signal Processing (ICCSP' 16), Tamilnadu, India, April 16, Pg. No 662-666.
- Sanjay Deshmukh and **Udhav Bhosle**, “*Performance Analysis of Orthonogonal Frequency Division Multiplexing over Different Modulation Methods*”, In proceedings International Conference on Computing, Communication and Signal processing (ICCCSP2016), Kollam, Kerla.
- Jyoti Deshmukh and **Udhav Bhosle**, “*SFIT with Associative classifier for Mammogram Classification*”, International Conference on Signal and Information Processing (IConSIP-2016), SGGS, Nanded.
- Poonam Sonar and **Udhav Bhosle**, “*Optimized Association rules using Objective Function for mammogram Classification,*” In Proceeding IEEE International Conference on Signal and Image Processing (ICCSP 2016), Pp 898-902, Chennai, India.

- Poonam Sonar and **Udhav Bhosle**, “*Mammogram Classification using Optimized Association Rule using Multi Objective Genetic Algorithms with Adaptive Mutation and Crossover*”, In Proceeding International Conference on Computing, Communication and Signal processing (ICCSP2016), Kollam, Kerala.
- Jyoti Deshmukh and **Udhav Bhosle**, “*Image Mining using Association Rule for Medical Image Dataset*”, in proceedings of International Conference on Computational Modeling and Security (CMS 2016), Bangalore, Elsevier Publications, Science Direct Procedia Computer Science (2016), pp. 117-124.
- Jyoti Deshmukh and **Udhav Bhosle**, “*SURF Features based Classifiers for Mammogram Classification*”, IEEE International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET) 2017, Chennai, India.
- Jyoti Deshmukh and **Udhav Bhosle**, “*Image Mining using Optimized Association Rule for Mammogram Image Classification*”, In proceedings IEEE International Conference on Communication Networks (ICCN), ITM Gwalior, 2015, PP.174-179.

Publications : National Conferences

- **Udhav Bhosle**, Subhasis Chaudhury and Sumantra Dutta Roy, “*Use of Geometric Hashing Technique for Automatic Image Mosaicing*”, National Conference on Communication (NCC01), Indian Institute of Technology Bombay, Mumbai, 2001, pages 533-537.
- **Udhav Bhosle**, Subhasis Chaudhury and Sumantra Dutta Roy, “*Mosaicing of Scene with Moving Objects*”, In Proceedings National Conference on Communication (NCC02), Indian Institute of Technology, Madras, 2003, pages 80-85.
- Deelip Khairnar and **Udhav Bhosle**, “*Moving Target Indicator Using Back Propagation Neural Network*”, In Proceedings National Conference on Unmanned Ground Vehicle, Vehicle Research and Development Establishment (VRDE), Defense Research and Development organization (DRDO), Ahmednagar, February 2006.
- **Udhav Bhosle** and Deelip Khairnar, “*Signal Detection in Non Gaussian Noise using RBF Neural Network*”, In Proceedings Technical Symposium Government College of Engineering (TSYGCEA06), January 2006, Pages 325-329.
- Seema Biday and **Udhav Bhosle**, “*Relative Radiometric Correction Of Multitemporal Cloudy Satellite Images*”, In. Proceedings of Indian Conference On Computer Vision, Graphics, Video And Image Processing (ICCVGIVP), Nagpur, India, March 2009, Pages 146-149.
- Seema Biday and **Udhav Bhosle**, “*A Study Of Change Detection Using Radon Transform*”, In. Proceedings Of National Conference On Natural Resource Management For Sustainable Development (NRMSD-2010), India, 2010, Page 63-67.
- Seema Biday and **Udhav Bhosle**, “*Change Detection in Satellite Images using Radon Transform*”, In Symposium of National Conference on GIS and Remote Sensing in Infrastructure Development, Indian Society of Remote Sensing India, 2013.

Technical Talks & Presentations

Delivered Technical talk and presentations at number of places in State and India.

Leadership Positions Held

- **Convener**, National Workshop on Digital Signal Processing and Its Applications in Communication, Control and Biomedical, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai. 3rd to 7th July 2006.
- **General Chair**, National Conference on Advances in Mechanical Engineering (NCAME09) in association with Bhaba Atomic Research Centre (BARC), Mumbai, Rajiv Gandhi Institute of Technology, Mumbai. 15th & 16th Jan. 2009.
- **General Chair**, National Conference on Advances in Communication and Information Technology” in association with IETE Mumbai Chapter, March 2010.
- **Convener**, National Workshop on Advances in Signal Processing and Applications (NWASP_2011), MCT’s Rajiv Gandhi Institute of Technology, Andheri(W), Mumbai from 19th Jan to 21st Jan 2011.
- **Presiding officer**, Joint Entrance Examination: IIT-JEE 2007 to 2017.
- **Presiding Officer**, Graduate Aptitude Test in Engineering: GATE 2014 to GATE 2017,
- **Presiding Officer, ISAT2011** (Indian Institute of Space Science and Technology) and ICRB 2011. ICRB, 2012, ICRB 2013 and DRDO ICRB 2012.
- **General Chair**, International conference on Advances in Computing and Information Technology (ICACIT 2014) MCT’s Rajiv Gandhi Institute of Technology, Mumbai.

Extra-curricular & Social Welfare Activities

- Invited and offered the stage of Institute during Annual Festival for the students of Street Children School run by “ASHA KIRAN TRUST” Andheri (W), Mumbai.
- Organized “Yoga Pranayam Camp, First Aid Training, Plantation Drive,” in the campus of RGIT and outside for four year in association with the local resident.
- Organized in association with local residents a “Clean Up Drive” for consecutive five years. Thus drive got participation 500 people all around the area.

References

- Prof. **Subhasis Chaudhary**. Professor, Department of Electrical Engineering, Indian Institute of Technology Bombay, Mumbai, India.
- Dr. **Sumantra Dutta Roy**, Associate Professor, Department of Computer Science and Engineering, Indian Institute of Technology, New Delhi, India.
- Mr. **Ashutosh Dumare (IPS)**, Inspector General of Police, Mumbai. India.
- Mr. **Aniesh Kumar**, CMD and Country Head, Bank of Mellon New York, Mumbai, India.
- Mr. **Eaknath Dawale (IAS)**, Secretary, Rural Development, Government of Maharashtra. Mumbai. (India)

UDHAV V. BHOSLE