



## TUSHAR R. JADHAV

Assistant Professor

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<b>Education:</b>	<ul style="list-style-type: none"> <li>• B.E. (Electronics) Shivaji University, Kolhapur 1993</li> <li>• M.E ( Power Electronics) Gulbarga University 1996</li> <li>• Diploma in advanced computing(CDAC, Bangalore)</li> <li>• PhD-Registered at Thapar university in 2010</li> <li>• Total teaching Experience : 15 years</li> </ul>			
<b>Research Interests:</b>	<ul style="list-style-type: none"> <li>• Image Processing</li> <li>• Artificial Neural Network</li> <li>• Analog Integrated Circuits</li> </ul>			
<b>Funded Research Projects: BCUD, UOP,Pune</b>	Title	Grant	Period/ Year of Sanction	Principal Investigator
	Design of Homography based Hybrid Mixture Model for 3D reconstruction	3,00,000/-	24 months/ 2012	Dr. Aditya Abhyankar
	Design and Integration of Evolutionary Methodologies for Non-Modular High Content Histopathological Screening	75,000/-	24 months/ 2011	T.R.Jadhav
	Modeling & verification of regulator chips using PSpice.	2,00,000/- (Project completed)	24 months/ 2010	R.S.Talware
<b>Teaching:</b>	<ul style="list-style-type: none"> <li>• Digital Image Processing</li> <li>• Electronic Devices and Circuits</li> <li>• Linear Integrated Circuit</li> <li>• Electronic circuits and application</li> <li>• Network Theory/Analysis</li> <li>• Mobile communication</li> <li>• Basic Electronics Engineering</li> <li>• Semiconductor Devices &amp; Circuits</li> <li>• Power Electronics</li> </ul>			

<b>Projects:</b>	<ul style="list-style-type: none"> <li>Undergraduate Projects guided: 17</li> </ul>															
<b>Professional Membership:</b>	<ul style="list-style-type: none"> <li>Life Member of ISTE</li> </ul>															
<b>Publications:</b>	<ul style="list-style-type: none"> <li>Journal-03</li> <li>International Conferences: 01</li> <li>National Conferences : 03</li> <li>Books : 02</li> </ul>															
<b>Computer Skills:</b>	<ul style="list-style-type: none"> <li>Languages: Matlab, C,C++,VC++,VB6</li> <li>Applications: Microsoft office, common Windows database and presentation software</li> <li>Operating Systems: Windows.</li> </ul>															
<b>Workshops/ Seminars/ Training attended</b>	More than 18 weeks, CEEP-02, Industrial Training- 01(HAL,Nashik)															
<b>Invited Lectures</b>	<table border="1"> <thead> <tr> <th><i>Organization</i></th> <th><i>Topic of talk</i></th> <th><i>Venue, Date and time</i></th> </tr> </thead> <tbody> <tr> <td>IOK, Shikrapur,Pune</td> <td>Expert Lecture Series on Network Analysis</td> <td>IOK, Shikrapur,Pune (31-3-12,1-4,12,8-4-12,15-4-12)</td> </tr> <tr> <td>VIACS,Pune</td> <td>Digital Image Processing</td> <td>VIACS(Feb12-Apr12)</td> </tr> <tr> <td>E &amp;TC,VIIT</td> <td>Introduction to LabVIEW- in CEEP on LabVIEW</td> <td>E &amp;Tc Dept</td> </tr> <tr> <td>Bharti Vidyapeeth</td> <td>Multivibrators- Design and applications</td> <td>Bharti Vidypeeth's JNIOT,Pune Feb,2011</td> </tr> </tbody> </table>	<i>Organization</i>	<i>Topic of talk</i>	<i>Venue, Date and time</i>	IOK, Shikrapur,Pune	Expert Lecture Series on Network Analysis	IOK, Shikrapur,Pune (31-3-12,1-4,12,8-4-12,15-4-12)	VIACS,Pune	Digital Image Processing	VIACS(Feb12-Apr12)	E &TC,VIIT	Introduction to LabVIEW- in CEEP on LabVIEW	E &Tc Dept	Bharti Vidyapeeth	Multivibrators- Design and applications	Bharti Vidypeeth's JNIOT,Pune Feb,2011
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### Journal : 03

- Y.H.Dandawate, M.A.Joshi and T.R.Jadhav "Recent Trends in Image Compression Using Vector Quantization: A Neural Network Approach 'Indian Journal of Science and Technology. ( International) (Accepted for Publication in Oct 2010)
- Y.H.Dandawate , T.R.Jadhav, A.V.Chitre and M.A.Joshi, "Neuro-Wavelet based Vector Quantizer design for Image Compression "Indian Journal of Science and Technology(International) Vol.2 No. 10 (Oct 2009) pp 56-61 ISSN: 0974- 6846

- Y.H.Dandawate , P.G.Gawande,T.R.Jadhav and A.V.Chitre “Quality Analysis of Medical Images Compressed Using Wavelet Based Vector Quantizer “ International Journal of Research in science and Technology , Online web based Journal,Vol I Issue 1 Oct2010 pp 9-15 ISSN 2239-5135 www.injorest.org

#### **International Conference : 01**

- S.P.Patil, Manisha Jadhav,T.R.Jadhav “Multipoint Water level Measurement & Detection of Flow direction using Image Processing, ICSIP 2006 , International Conference on Signal & Image Processing, Hubli, Dec 2006.

#### **National Conference : 03**

- T.R.Jadhav, Dr.Aditya Abhyankar ,Dr. Kulbir Singh ‘Towards understanding of intrinsic parameters of a camera for 2D to 3D reconstruction’,MVIP-2011,COEP,Pune,7-9 Dec.2011
- M. Awade,R. Abhinkar, S.Malu, T.R.Jadhav, ”High Efficiency Double Conversion Inverter using Solar Energy for feeding the National Grid”, National Conference on Renewable Energy Sources-Solution to Energy Crisis, Jaipur, June 2011
- T.R.Jadhav,Manisha Jadhav ‘Image Processing a tool for Precision farming & weed control, Technobuzz 2007, Pune, Feb 2007

#### **Books – (02)**

- Linear integrated Circuits-published by Everest Publishing House in 2002(Revised Edition-2007)
- Applied Electronics (for Mech. Engg.)-published by Everest Publishing House in 2007