

**Department of Instrumentation & Control**  
**Research Publications**  
Academic Year 2013-14 (till February 2014)

| <b>Sr. No.</b> | <b>Title of Paper</b>   | <b>Name of Author</b>   | <b>Conference Details</b>  |
|----------------|---|---|--|
| 1.             | An Intensity Modulated Optical Fiber Sensor with Concave Mirror for Measurement of Displacement         | Prof. A.D. Gaikwad,<br>Prof.J. P. Gawande,<br>Prof. A. K. Joshi | Journal of Optics, Official publication of the Optical society of India, published by Springer             |
| 2.             | Design of PID Controller based on Reduced Order Model and Characteristics Ratio Assignment Method       | Prof. V.D.Hajare  | IEEE Multi-Conference on System and Control, Hyderabad 28-30Aug ,2013.IEEE-978-1-4799-1557-6\13            |
| 3.             | New Approach of Threshold for Denoising ECG Signal using Wavelet Transform                              | Prof.H.T.Patil  | INDICON-13 Organized by IEEE Bombay section & IIT Bombay   |
| 4.             | Design of Decentralized PI controller based on Characteristics Ratio Assignment Method For TITO Process | Prof. V.D.Hajare  | INDICON-13 Organized by IEEE Bombay section & IIT Bombay   |
| 5.             | Frequency Analysis with Reduced Model Order Based PID Controllers for Higher Order Systems              | Prof. V.D.Hajare  | National Conference on Instrumentation Control and Signal Processing-ICSP 8,9 July 2013                    |
| 6.             | PDR Localization in Retinal Image Using Gabor Wavelet and Bayesian Classifier                           | Mrs.Arti Yerolkar<br>Prof. Swati Madhe                          | National Conference on Instrumentation, Control and Signal Processing- ICSP-2013                           |
| 7.             | Texture Analysis of MRCP Images for Chronic Pancreatitis Detection                                      | Kirti Raje<br>Prof.Vaishali Upadhye                             | National Conference on Instrumentation, Control and Signal Processing- ICSP-2013                           |
| 8.             | Non-Invasive Optical Blood Glucose Measurement  | Megha Pande<br>A.D. Gaikwad                                     | Published in International Journal of Engineering Research and Application Vol.3, Issue 4,July-August 2013 |
| 9.             | Signal Processing for Wearable Heart Rate Monitoring  | Shraddha Deopujari<br>A.D. Gaikwad                              | International Conference on Information Technology, Electronics and Communication- ICITEC-2013             |
| 10.            | Analysis of Breast Thermograms for Abnormality Detection  | Askshata Ghugave<br>Prof. A.T.Wakankar                          | National Conference on Instrumentation, Control and Signal Processing- ICSP-2013                           |
| 11.            | Activity Based Brain Lobe Identification (Using FMRI Image Analysis)                                    | Dhanashree Desai<br>Prof. N.M.Daimiwal                          | National Conference on Instrumentation, Control and Signal Processing- ICSP-2013                           |

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|-----|---|---|--|
| 12. | Optical Sensor system for Hemoglobin Measurement  | Rajashree Doshi<br>Prof. Anagha<br>Panditrao  | Published in International Journal of Engineering Research and Application Vol.3, Issue 7,July- 2013 |
| 13. | Multiresolution Analysis for Computer Aided Mass Detection Mammogram using Pixel Based Segmentation | Pragathi J.<br>Prof.H.T.Patil   | International conference on Recent Trends in IT July 2013  |
| 14. | Automated Features Extraction of Optic Nerve  | Seema Labdi<br>Prof. J. P. Gawande  | International Conference in on Advances in Engineering & Technology (ICAET)Jan 2014, Nagpur.         |
| 15. | Ultrasonic Walking Stick for Visually Impaired and Blind People                                     | Swapna Shanbhu<br>Prof. A. K. Joshi   | National Conference on Innovations and Advancements in Information Technology , Feb -14,             |
| 16. | Tractor tyre Designing System   | Shivani Matto<br>Prajakta Kale<br>Ekta Ghonge<br>Arshi Mohini<br>Guided by Prof.<br>Swati Madhe | Techno champ July-13, John Deere (Runner up)   |