



DR. YOGESH H. DANDAWATE

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Education:	<ul style="list-style-type: none"> • B.E. (Industrial Electronics) University Of Pune 1991 • M.E (Power Electronics) Gulbarga University 1998 • PhD (Electronics and Telecommunications) 2009 from University of Pune • Total teaching Experience : 19 years
Research Interests:	<ul style="list-style-type: none"> • Digital Signal and Image Processing • Soft Computing and its applications in Signal Processing, Ocean and River Engineering. • Embedded Systems Hardware and Software development • Multimedia Systems • Presently supervising one candidate for Ph.D at Thapar University, Patiala and one candidate at Symbiosis International University Pune.
Funded Research Projects:	<ul style="list-style-type: none"> • Real time stream flow forecasting using ANN – 2008- 2010 Pune University, Rs. 2, 00,000/- Co-Investigator. (Completed) • Real time stream flow forecasting using neuro wavelet models. Pune University Rs.1,00,000/- Principal investigator (Ongoing)
Teaching:	<ul style="list-style-type: none"> • Digital Image Processing (UG and PG) • Digital Signal Processing • Embedded Systems Design (at UG and PG level) • Microprocessors, Microcontrollers and Applications • Advanced Microprocessors • Power Electronics and Advanced Power Electronics • Multimedia Applications (PG) • Electronic Devices and Circuits • Optical fiber Communications • Electronic Circuit design
Projects:	<ul style="list-style-type: none"> • Undergraduate Projects guided: 50+

Professional:	<p><u>Memberships:</u></p> <ul style="list-style-type: none"> • Senior Member, Institute of Electrical and Electronics Engineers (IEEE) • Member , Signal Processing Society of IEEE • Life Member of ISTE • Life Member of IETE (Applied for Fellow) • Member , Indian Society of Education and Environment. • Senor Member, International Association of Computers and Information Technology, (IACIT) Singapore <ul style="list-style-type: none"> • Worked as Secretary, IEEE Signal Processing Society Chapter of Bombay Section for two years • Presently working as Treasurer ,IEEE Pune Section • Worked as Branch Counselor of IEEE students branch at Sinhgad College of Engineering and at VIIT for 6 years. • Editorial Board Member – Indian Journal of Science and Technology • Editorial Board Member –International Journal of Research in Science and Technology • Reviewer : Indian Journal of Science and Technology • Journal of Image Processing, Institute of Technology (IET) UK
Publications:	<ul style="list-style-type: none"> • International Journals: 3 • International Conferences: 16 (6 papers are available on IEEE Explore) • National Conferences : 07 • Book s : 1 • Details of Publications (Please see the attached sheet)
Computer Skills:	<ul style="list-style-type: none"> • Languages: Matlab, C • Applications: Microsoft office, common Windows database, spreadsheet, and presentation software's • Operating Systems: Windows.
Other	<ul style="list-style-type: none"> • Invited Talks : National Conferences : 02 <li style="padding-left: 100px;">STTP 's : 03 • Session Chair : National Conference : 04

Publications: (International and National Conferences)

1. **Y H Dandawate**, M.B.Mali and M.M.Jadhav , “MEMS Solution to optical switching”, Proceedings of **National conference ACE03**, Pune, 2003
2. **Y H Dandawate** and D.M.Bhalerao, “Cryptomemory: Storage with security”, Proceedings **International conference IMAE-05** , P.I.E.T. Pune, 4th & 5th January 2005.(CD media) Abstract –Electronics 07
3. P.G.Gawande,**Y H Dandawate**, M.A.Joshi and A.M.Sapkal , “Supervised Image Classification by Artificial Intelligence”, Proceedings of **International conference IMAE-05** , P.I.E.T. Pune, 4th & 5th January 2005. .(CD media) Abstract –Electronics 18
4. **Y H Dandawate**, A.S.Tavildar, R.B.Ghongade and M.A.Joshi , “Application of broadband communication in health care”, Proceedings **National conference on Broadband Communication**, organized by IETE Pune, July 2005.
5. P.G.Gawande,**Y H Dandawate** and M.A.Joshi “Supervised Image Classification by Artificial Neural Network”, Proceedings of **National conference on Advancements in Electronics & Computer**, Aurangabad, January 2006.pp 181-185
6. R. B. Ghongade, **Y H Dandawate** and A.A.Ghatol , “Electrocardiogram Frequency Spectrum Application in Clinical Diagnosis and Tele medicine”, **National conference on Biomedical Engineering**, Pune, September 2006.
7. **Y H Dandawate**,M.A.Joshi and A.V.Chitre, “Improvement in performance of image compression using VQ designed with SOFM”, **National conference** on emerging trends in Electronics and Telecom, Kottayam, 5th May 2007
8. **Y H Dandawate** ,M.A.Joshi and A.V.Chitre , “Comparison of performance of code book design using neural network”, **National conference** on emerging trends in Electronics and Telecom, VPMCOE, Baramati, July 2007.
9. **Y H Dandawate** ,M.A.Joshi and A.V.Chitre, “Colour image compression Using Enhanced Vector Quantizer designed with Self Organizing Feature Map”, Proceedings of **International Conference On Information Processing** , ICIP-07 , Bangalore, August 2007. pp 80-85 ISBN: 978-81-89866-51-8
10. **Y H Dandawate** ,M.A.Joshi and A.V.Chitre , “Image Compression using Enhanced Vector Quantizer designed with Kohonen’s Self Organizing Feature Maps: The Quality Analysis”, Proceedings of **National conference on Signal Processing and Automation**, **D Y Patil, Pune**, September 2007.pp 32-35
11. **Y H Dandawate** ,M.A.Joshi and A.V.Chitre “Quality analysis of color image compressed with enhanced vector quantizer using HSV color space”, Proceedings of **International Conference on Advanced In Computer Vision And Information Technology** , Aurangabad, November 2007.pp 789-795
12. **Y H Dandawate** and M.A.Joshi“Quality improvement of image compressed using VQ designed with Kohonen SOFM”, Proceedings of **International Conference On Advanced In Computer Vision And Information Technology**, **Aurangabad**, November 2007.pp 932-940 ISBN: 978-81-89866-74-7
13. **Y H Dandawate**,M.A.Joshi and S.M.Umrani, “Performance Comparison of Color Image Compression Based on Enhanced Vector Quantizer Designed Using Different Color Spaces”, Proceedings of **International conference on Intelligent and Advanced Systems**, **Kualalumpur, Malaysia**, November 2007(Paper published in IEEE proceeding).pp-626-630 ISBN: 978-1-4244-1355-3
14. **Y H Dandawate** ,M.A.Joshi and A.V.Chitre, “ Quality analysis of color images compressed with enhanced vector quantizer design using HIS color space” Proceedings of **International conference On Computational Intelligence And Multimedia Applications**, **ShivKashi, Tamilnadu, December 2007**(proceeding published by IEEE computer society press) vol III, pp- 138-143 ISBN 0-7695-3050-8
15. **Y H Dandawate** and M.A.Joshi, “ Performance analysis of image compression using enhanced vector quantizer design with self organizing feature maps” Proceedings of **International conference On Computational Intelligence And Multimedia**

Applications, ShivKashi, Tamilnadu, December 2007(proceeding published by IEEE computer society press) Vol III pp 128-133 ISBN 0-7695-3050-8

16. **Y H Dandawate** M.A.Joshi and P.G.Gawande, "Image Compression using Enhanced Vector Quantizer Designed with Selective Training of Unsupervised Neural Network", Proceedings of **International Conference On Wireless Communications And Multimedia Technology**, Mumbai January 2008, IET (UK) sponsored. pp. 263 -266 ISBN: 978 0 86341 887 7
17. **Y H Dandawate** ,M.A.Joshi and S.M.Umrani, "Compression of Medical Images Using Enhanced Vector Quantizer with Self Organizing Feature Maps", Proceedings of **International Conference In Medical Biometrics, Hong Kong**, January 2008 (Proceeding published by Springer LNCS) pp 256-264
18. **Y H Dandawate**, P. U. Chavan and M.A.Joshi, " Vector quantizer design using genetic algorithm for image compression" **International Conference on Advanced computing and Communication Technologies organized by Asian Pacific Institute Information Technology, Panipat, Hariyana**, November 2008.
19. S.B.Charhate , **Y H Dandawate**, Dr. Londhe, "Genetic programming to forecast stream flow" Proceedings of **16th IAHR-APD Congress at Nanjing, China**, October 2008. Vol.I pp 29-34 ISBN 978-7-302-18662-5
- 20 **Y H Dandawate** & M A Joshi "Compression of Medical Images using Generic Vector Quantizer designed with Kohonen's Self Organizing Feature Maps " –Invited Paper Proceedings of National Conference on Signal and Image processing applications (CD media) IET Sponsored.,Pune, India Sep.2009
21. **Y.H.Dandawate** & S.N.Londhe "Image Compression using Generic Vector Quantizer designed using Transform Coding : The Quality Analysis Perspective" Proceedings of 2nd International Conference on Computer and Electrical Engineering (ICCEE 2009) at **Dubai, UAE**, December 2009, Vol II, pp-ISBN Number 978-1-4244-5383-2
22. P.U.Chavan ,P.P.Chavan & **Y.H.Dandawate** "Vector Quantizer design using Genetic Algorithm for Image Compression"pp Proceedings of 2nd International Conference on Computer and Electrical Engineering (ICCEE 2009) at **Dubai, UAE**, December 2009, Vol II, pp-ISBN Number 978-1-4244-5383-2
23. N.K.Bhandari, **Y.H.Dandawate** and R.R.Bhambare " Quality Analysis and comparison of the DCT based JPEG and Wavelet based image compression schemes" Proceedings of International Conference on Computational Intelligence Applications (ICCIA) at Nashik, March 2010.pp- 60-64

Referred Journals :

24. **Y.H.Dandawate** and M.A.Joshi "Image Compression using Generic Vector Quantizer designed with Kohonen Artificial Neural Networks: The Quality Improvement Perspective " **International Journal of Information Processing** Vol.3 No.3 (2009) pp 45-54 ISSN 0973-8215
25. **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 www.indjst.org
26. **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