Dr. Anjali Deshpande



DESIGNATION:

Professor And Head Of The Department

BRANCH:

Electronics

EMAIL ID:

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Subject area of interest

Digital signal Processing and Applications, Statistical Signal and Analysis, Principles of Control Systems, Microprocessor and applications, Industrial Electronics /Power Electronics, Industrial Automation, Power Electronics and Drives, Analog Integrated Circuits, Electromagnetic Fields and waves, Electrical Networks, Basic Electricity and Electronics, Principles of Programming, Electronic Instrumentation

Qualification

PhD in Systems and Control from IIT Bombay - 2008

M. E. Electrical, Control Systems from V.J.T.I., Mumbai University - 1993

B.E. in Electronics and Power Engineering from Visvesvaraya Regional College of Engineering, Nagpur- 1987

Experience

Vidyalankar Institute of Technology, Mumbai as Professor and Head of Electronics Engineering - July 2014 till Date

Professor in Electronics from July 2011- July2014

Professor and Head of Electronics Engineering - Dec 2009 -July 2011

Professor and Head of Electronics and Telecommunication Engineering - July 2010-July 2011

IIT Bombay, as Research Associate from April 2008-July 2009

K. J. Somaiya College of Engineering, Mumbai, Lecturer, Sr. Lecturer - July 1993 -Jan 2006

R.K.N. College of Engineering, Nagpur Lecturer in Electronics and Power

Engineering - Aug 1987-July 1989

Publications, Seminars, Conferences

Book Chapters

Nonlinear Model Predictive Control", Findeisen R., Allgower F., Beigler L. T. (Eds.), pp 513-521, Springer, 2005

State Estimation and Fault Tolerant Nonlinear Predictive Control of an Autonomous Hybrid System Using Unscented Kalman Filter, In "Assessment and Future Directions of Nonlinear Model Predictive Control", L Magani et. Al (Eds): Nonlinear Model Predictive Control, LNCIS 384, pp. 285-293, 2008

International Journal Papers

Online Fault Diagnosis in Nonlinear Systems using Multiple Operating Regime Approach, Ind. Eng. Chem. Res., 2008, 47, 6711–6726  
Intelligent state estimation for fault tolerant nonlinear predictive control, Journal of Process Control, Volume 19, Issue 2, Pages 187-204 - February 2009,

On-line Sensor / Actuator Failure Isolation and Reconfigurable Control using Generalized Likelihood Ratio Method, Ind. Eng. Chem. Res., 2009, 48 (3), pp 1522–1535

Identification of Process and Measurement Noise Covariances for State and Parameter Estimation Using Extended Kalman Filter, Journal of Process Control, Volume 21, Issue 4, Pages 585–601 April 2011

DSP based Cascade Control of DC motor using Dual converter, International Journal of Advance Research in Science and Engineering (IJARSE), February 2016

International Conferences

Sensor Fault Accommodation using Multimodal Approach, In Proc. of NCCDS'05, January 2005, IIT Bombay

Integrating Fault Diagnosis with Nonlinear Predictive Control, Proc. of International Workshop on Assessment and Future Directions of Nonlinear Model Predictive Control, NMPC” 05,Fruedenstadt-Lauterbad, Germany, pp. 419-426, August 26-30, (2005)

Reconfigurable LQG controller under Sensor Failure, 8th International IFAC Symposium on Dynamics and Control of Process Systems, Mexico, 2007

State Estimation and Fault Tolerant Nonlinear Predictive Control of an Autonomous Hybrid System Using Unscented Kalman Filter, Int. Workshop on Assessment and Future Directions of NMPC Pavia, Italy, September 5-9, 2008

Inferential Control of DC motor using Kaman Filter, Int conference on Power, Embedded Systems and Control, ICPCES-2012 at MNNIT Allahabad, December 19-20, 2012, available on <http://ieeexplore.ieee.org/>

Reliable MPPT using Kaman Filter, Int. Conference on Recent advances in Engineering and Management, RACEM-2013 at VIT, January 11-12, 2013

Microcontroller based Automation system using Industry standard SCADA, selected for publication in INDICON 2013, IIT Bombay, December 2013

DSP Based Closed-loop Speed Control System for DC Motor using Dual Converter, presented in INDICON 2014, PUNE

Study of Sensor less Control Algorithms for a Permanent Magnet Synchronous Motor Vector Control Drive, selected for ICIC2015, PUNE

Enhanced Teaching Learning Experience through Modern Technologies and Tools, Changing Role of Techers in Changing Times, NAAC sponsored seminar, ISBN:978-93-85777-97-4, September 3, 2016

IEEE SKEP lecture “Writing a Technical paper and use of Scientific word”, January 2016

IEEE, WIE, International Summit at Pune, Session Chair for session on “Smart City: Smart Women” Organizing Committee member, September 2016

Awards

Senior Member, IEEE

WIE Chair, IEEE Bombay section

Life Member ISTE