

Dr.G.Balasubramanian
Senior Assistant Professor
School of Electrical & Electronics Engineering
SASTRA Deemed University, Thanjavur
Mobile: 9944055327

ganesanbalasubramanian28@gmail.com

PUBLICATIONS

1. Balasubramanian, G., Sivakumaran, N., Radhakrishnan, T.K. Adaptive Control of Neutralization Process Using Neural Networks, International Journal of Instrumentation Science and Technology, Volume 36, Issue 2, March 2008,146-160.(SCI-0.963)
2. Balasubramanian, G., Sivakumaran, N., Radhakrishnan, T.K. Control of Neutralization Process Using Soft Computing, Sensors & Transducers Journal, March 2008.
3. Balasubramanian, G., Hariprasad, K., Sivakumaran, N., Radhakrishnan, T.K. Adaptive Control of Neutralization Process Using Recurrent Neural Networks , Instrumentation Science and Technology , Volume 37, Issue 4, July 2009, 383-396. .(SCI-0.963)
4. Balasubramanian, G., Hariprasad, K., Sivakumaran, N., Radhakrishnan, T.K. Adaptive Control of Multivariable Process Using Recurrent Neural Networks , Instrumentation Science and Technology , Volume 37, Issue 6, November 2009, 615-630. .(SCI-0.963)
5. Srivignesh, N., Sowmya, P., Ramkumar, K., Balasubramanian, G. Design of Neural Based PID Controller for Nonlinear Process , Procedia Engineering, Volume 38, 2012, 3283-3291.
6. Sowmya, P.,Srivignesh, N.,Sivakumaran, N. , Balasubramanian, G. A fuzzy Control Scheme for Nonlinear Process , IEEE-International Conference on Advances in Engineering, Science and Management, ICAESM-2012 March 2012,683-688.
7. Muthukumar, N. , Gomathi, V. , Ramkumar, K. , Balasubramanian, G. Prediction Based Optimal Control of a Quadruple Tank Process , IEEE International Conference on Circuit, Power and Computing Technologies, ICCPCT 2013 March 2013,685-690.
8. Guru, R. , Arumugam, A., Balasubramanian, G., Balaji, V.S. Fuzzy Based Composition Control of Distillation Column. International Journal of Engineering and Technology , Volume 5, Issue 2, 2013,1863-1869.
9. Manimaran, M.,Arumugam, A.,Balasubramanian, G.,Ramkumar, K. Optimization and Composition Control of Distillation Column using MPC . International Journal of Engineering and Technology , Volume 5, Issue 2, 2013, 1224-1230.

10. Manimaran, M., Arumugam, A., Balasubramanian, G., Ramkumar, K. Parameter Estimation Based Optimal Control for a Bubble Cap Distillation Column, International Journal of ChemTech Research, Volume 6, Issue 1, 2014, 790-799.
11. Guru, R., Arumugam, A., Balaji, V.S., Balasubramanian, G., Ramkumar, K. FLC Based Bubble Cap Distillation Column Composition Control, International Journal of ChemTech Research, Volume 6, Issue 1, 2014, 800-806.
12. Suresh, U., Ramkumar, K., Balasubramanian, G., Rakesh Kumar, S. Kalman filter Based State Feedback Control of Shell and Tube Heat Exchanger, International Journal of ChemTech Research, Volume 6, Issue 5, 2014, 2668-2675.
13. Jason Paul, V.M., Valarmathi, R., Ramkumar, K., Balasubramanian, G. Data Based Prediction and Control of a Non-linear Process, International Journal of Applied Engineering Research, Volume 9, Issue 16, 2014, 3367-3376.
14. Vijaya Kumar, M., Valarmathi, R., Ramkumar, K. and Balasubramanian, G. Implementation of Dynamic Matrix Control for Cement Plant, International Journal of Applied Engineering Research. Volume 9, Number 15, 2014, 3009-3014.
15. Balasubramanian, G., Sivakumaran, N. and Radhakrishnan, T.K. Nonlinear Model Based Control for Neutralization Process, International Journal of Applied Environmental Sciences. Volume 9 Number 2, 2014, 239-244.
16. Pritish Kumar Moharana, Guruprasath M., Ramkumar K., Gomathi V. and Balasubramanian G. Estimation-Based Missing Observation in Measurements for a Cement Rotary Kiln. Volume 10, Number 44, 2015, 30637-30644, 2015. *Special Issues*.
17. S. Srividya, G. Balasubramanian and K. Ramkumar. Optimization of Operation Cost of Distillation Column Using Genetic Algorithm. Volume 10, Number 68, 421-427, 2015. *Special Issues*
18. Nivetha, P.; Gomathi, V.; Ramkumar, K.; Balasubramanian, G.; Guruprasath, M. Fault diagnosis operation of a cement kiln process using structural analysis. International Conference on Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM 2015), May 2015, 637 – 643.
19. Moharana, P.K.; Guruprasath, M.; Ramkumar, K.; Gomathi, V.; Balasubramanian, G. A comparison study on residuals and estimated residuals in a pyrometer of a cement rotary kiln using Kalman Filter Estimation. International Conference on Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM 2015), May 2015, 650 – 658.
20. Kathamuthu, M., Balasubramanian, G., Ramkumar, K. Dc motor speed control using fuzzy PID controller. International Journal of Applied Engineering Research Volume 10, Issue 11, 2015, 28527-28538.

21. Mathianantham, L. Gomathi, V.Ramkumar, K. Balasubramanian,G., State estimation of interior permanent magnet synchronous motor drives using EKF, *Advances in Intelligent Systems and Computing*, Volume 397, 2016, Pages 719-729.
22. Rajalakshmi, D.,Gomathi, V.,Ramkumar, K.,Balasubramanian, G., Analysis of speed estimation for sensorless induction motor using model-based artificial intelligent estimation techniques, *Advances in Intelligent Systems and Computing*, Volume 397, 2016, Pages 551-561.
23. Krishna, P., Guruprasath, M., Ramkumar, K., Venkatesh, S., Balasubramanian, G. Kalman filter based MPC with dead band for a ball mill. *Advances in Intelligent Systems and Computing* 394, pp. 1309-1320
24. Ponmudi, B., Balasubramanian, G., Sundaravazhuthi, V. Improving electrical power efficiency of solar PV system under different modes of circulation by circulating fluid. *International Journal of Control Theory and Applications*.9(25), pp. 151-161
25. Parthsarathy, H., Udayakumar, L., Balasubramanian, G. Modeling and simulation of PV module and zeta converter. *Proceedings of IEEE International Conference on Circuit, Power and Computing Technologies, ICCPCT 2016*. 7530276.
26. Ajantha, V., Poornima, M., Balasubramanian, G., Ramkumar, K., Kalpana, R. Design and analysis of FO PID controllers in Non-Linear process. *International Conference on Energy Efficient Technologies for Sustainability, ICEETS 2016*,7582942, pp. 285-290.
27. P.Vaishnavi, G.Balasubramanian. Tuning of PID Controller for Cascade Unstable systems Using Genetic Algorithm. *International Journal of Pure and Applied Mathematics*. Volume 118, No. 18, 2018, pp. 2011-2019.
28. B.Ponmudi, G.Balasubramanian. Fuzzy Clustering Method for PV Based DCD-MLI Using SVM Algorithm. *International Journal of Pure and Applied Mathematics*. Volume 118,No. 18, 2018, pp. 2021-2037
29. N.Mohanapriya, G.Balasubramanian. K.Ramkumar, G.Hariharan. Fractional Order Controller Design for Fin Stabilizing System. *International Journal of Pure and Applied Mathematics*. Volume 118,No. 18 2018, pp. 2039-2049
30. H.Parthsarathy, G.Balasubramanian. Nirmalajegadeesan, L.Udayakumar. Modeling and Design of Standalone PV System with Battery System. *International Journal of Pure and Applied Mathematics*. Volume 118, No. 18, 2018, pp. 2315-2327.
31. Ponmudi, B., Balasubramanian, G. Performance comparison of different passive methods for the detection of islanding condition in grid consorted PV system. *ARPN Journal of Engineering and Applied Sciences*. Volume. 13, Number. 1, January 2018.pp188-194.

32. Rajaprasanna R Balasubramanian M Srikanth R. Kautz approximation and Robust Optimization of Model Predictive Control for lightly damped LTI system using Semi-definite programming and LMI constraints. International Journal of Pure and Applied Mathematics. Volume 119 No. 16 2018, 843-857.
33. Raajan, N.R., Nandhini, K., Balasubramanian, G. Classification of Selective and Non Selective EEG Using Selective Information. National Academy Science Letters. October 2018, Volume 41, Issue 5, pp 289–292. (SCIE-0.519).
34. B.Ponmudi, Dr.G.Balasubramanian, V.Sundaravazhuthi.Detection of Islanding Condition for Grid Connected Photo Voltaic Inverter Based on Harmonics. Caribbean Journal of Science, Volume 53, Issue 1,2019
35. R.Rajaprasanna, S.Muthumari, G.Balasubramanian. A Novel Signal Processing Algorithm for Coriolis Mass Flow Meter. Caribbean Journal of Science, Volume 53, Issue 2,2019