

DC MEMBERS
RECENT PUBLICATION DETAILS

Name : Dr. S. BALAMURUGAN

Designation : Professor

Department : Electrical and Electronics Engineering

Address : School of Engineering, Amrita Vishwa Vidyapeetham, Coimbatore. 641 112.

E-mail : s_balamurugan@cb.amrita.edu

Area of specialization : Soft Computing in Power System

- 1) Sampath Kumar S., R. Joseph Xavier, and Dr. Balamurugan S., “Development of ANFIS based reference flux estimator and FGS tuned speed controller”, *Automatika*, vol. 59, pp. 11-23, 2018.
- 2) Dr. Vijaya Chandrakala K. R. M. and Dr. Balamurugan S., “Adaptive neuro-fuzzy scheduled load frequency controller for multi source multi area system interconnected via parallel ac-dc links”, *International Journal on Electrical Engineering and Informatics*, vol. 10, no. 3, pp. 479-490, 2018.
- 3) Lekshmi R. R. and Dr. Balamurugan S., “Load Following Under Different Market Models in a Restructured Power System”, *Journal of Electrical Systems*, vol. 14, no. 1, pp. 72– 85, 2018.
- 4) S. Selva Kumar, Joseph Xavier R, and Dr. Balamurugan S., “Development of Control Schemes and Optimal Tuning of Secondary Controllers for Parallel Operation of Gas Turbine Plants”, *Journal of Electrical Engineering*, vol. 17, no. 4, 2017.
- 5) Sampath Kumar S., R. Joseph Xavier, and Dr. Balamurugan S., “Speed Control of DTC with Torque Ripple and Flux Droop Reduction Using Sector Alteration based Adaptive Sliding Mode Control”, *Asian Journal of Information Technology*, vol. 15 , no. 20 , pp. 4020-4029, 2016.
- 6) S. Selva Kumar, R. Joseph Xavier, and Dr. Balamurugan S., “Fuzzy Gain Scheduling for Load Frequency Control of Single Area Multi Source Hydro-Thermal-Gas Turbine System”, *Australian Journal of Basic and Applied Sciences*, vol. 10, no. 5, pp. 137-143, 2016.
- 7) Dr. Vijaya Chandrakala K. R. M. and Dr. Balamurugan S., “Simulated annealing based optimal frequency and terminal voltage control of multi source multi area system”, *International Journal of Electrical Power & Energy Systems*, vol. 78, pp. 823 - 829, 2016.
- 8) Dr. Balamurugan S., Janarthanan, N., and Dr. Vijaya Chandrakala K. R. M., “Small and large signal modeling of heavy duty gas turbine plant for load frequency control”, *International Journal of Electrical Power & Energy Systems*, vol. 79, pp. 84 - 88, 2016.
- 9) Dr. Balamurugan S. and Lekshmi R. R., “Control strategy development for multi source multi area restructured system based on GENCO and TRANSCO reserve”, *Elsevier - International Journal of Electrical Power & Energy Systems*, vol. 75, pp. 320 - 327, 2016.
- 10) R. Abhilash, Adithya, K., O Kumar, K., Balaji, T. J., Dr. Vijaya Chandrakala K. R. M., and Dr. Balamurugan S., “PLC-SCADA Based Supply Side Management in Deregulated Power Market”, *WSEAS Transactions on Power Systems*, vol. 10, pp. 97-104, 2015.

- 11) Sampath Kumar S. and Dr. Balamurugan S., "Sensor less Direct Torque Controlled Induction Motor Drive with Torque, Flux and Speed Ripple Minimization", International Journal of Applied Engineering Research, vol. 10, no. 55, pp. 3547-3551, 2015.
- 12) V.S., K.R.M., V. Chandrakal, Dr. Balamurugan S., and N., J., "Simulated Annealing Based Optimal Control of Multi Source Multi Area Hydro Thermal Gas Turbine System", International Journal of Applied Engineering Research, vol. 10, no. 55, pp. 3165-3170, 2015.
- 13) U. V., N., J., Dr. Balamurugan S., and Dr. Vijaya Chandrakala K. R. M., "Stability Enhancement of a Synchronous Generator Connected to an Infinite Bus Bar Using SSSC", International Journal of Applied Engineering Research, vol. 10, no. 55, pp. 3590-3595, 2015.
- 14) S. Selva Kumar, Dr. Balamurugan S., and Joseph Xavier R, "Genetic Algorithm Tuned Load Frequency Control of Multi Source Multi Area Hydro Thermal Gas Turbine System", International Journal of Applied Engineering Research, vol. 10, no. 55, pp. 3193-3197, 2015.
- 15) J. N., Dr. Balamurugan S., N., K., and Dr. Vijaya Chandrakala K. R. M., "Design Aspects and Impact Analysis of TCSC", International Journal of Applied Engineering Research, vol. 10, no. 55, pp. 3515-3518, 2015.