

## Publications

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The work presented in this thesis, resulted in the publication of the following research papers:

1. George, R.K., RamaMohan, S. and Pandit, P.K., *Stability and Controllability of Neural Networks of Hopfield Type*, Proceedings of International Conference On Mathematical Modeling On Nonlinear Systems (ICOMMONS-99) , Nonlinear Systems and Mathematical Modelling , (1999), pp-235-245.
2. George, R.K. and Pandit, P.K., *Observability Analysis of Hopfield Type Neural Networks*, Journal of M. S.University of Vadodara, Golden Jubilee issue, (2001), pp.49-55.
3. George, R.K. and Pandit, P.K., *Control of Semilinear Dynamical System and its Neural Networks Implementation*, presented in International conference on Recent trends in Nonlinear Analysis and its Applications (CNAA-04), IIT Bombay, 11-13 December (2004).
4. George, R.K. and Pandit, P.K., *Zonal Control of Distributed Systems using Neural Networks*, Proceedings: Seventh International Conference on Operations and Quantitative Management (ICOQM-VII), Jaipur, 3-5 Aug, (2006).
5. George, R.K. and Pandit, P.K., , *ANN Controller in Chemical Process*, presented in the International Conference on Current Trends in Industrial and Applied Mathematics (ICCTIAM07), M.S.U.,

Vadodara, 16-18 JAN, (2007).

6. George, R.K. and Pandit, P.K., *Control in Thermal Systems using Neural Networks*, To be presented in the Eight International Conference on Operations and Quantitative Management (ICOQM-VIII), Bangkok, 17-20 Oct, (2007).
7. George, R.K. and Pandit, P.K., *ANN Steering Controls in the Automated Semilinear Systems*, To be presented in the Fifth World Congress of Nonlinear Analysis (WCNA-2008), 2-9 July, Florida, (2008).
8. George, R.K. and Pandit, P.K., *Neural Networks Controllers in semilinear Dynamical System*, communicated to IJAMS.