

# Research Publications by Faculty Members in 2010

## Journals

1. B. Chandra, Ravi Kothari, Pallath Paul: A new node splitting measure for decision tree construction. *Pattern Recognition* 43(8): 2725-2731, 2010.
2. Md. Shiblee, B. Chandra, Prem Kumar Kalra: Learning of geometric mean neuron model using resilient propagation algorithm. *Expert Syst. Appl.* 37(12): 7449-7455, 2010.
3. Sameena Shah, Ravi Kothari, Jayadeva, Suresh Chandra: Trail formation in ants: A generalized Polya urn process, *Swarm Intelligence* 4(2):145-171,2010.
4. M. Arun Kumar, Reshma Khemchandani, M. Gopal, Suresh Chandra: Knowledge based least squares twin support vector machines. *Information Sciences*, 180(23): 4606-4618, 2010.
5. Reshma Khemchandani, Jayadeva, Suresh Chandra: Learning the optimal kernel for Fisher discriminant analysis via second order cone programming. *European Journal of Operation Research*, 203 (3): 692-697, 2010.
6. Viswanathan Arunachalam, Vandana Gupta, S. Dharmaraja: A fluid queue modulated by two independent birth-death processes. *Computer and Mathematics with Application*, 60(8): 2433-2444, 2010.
7. S. Kundu: The metrizable and completeness of the support-open topology on  $C(X)$ . *Topology Applications*, 157(7): 1119-1126, 2010.
8. Puneet Sharma, Anima Nagar: Topological dynamics on hyperspaces. *Applied General Topology*, 11(1): 1-19, 2010.
9. Puneet Sharma, Anima Nagar: Inducing sensitivity on hyperspaces. *Topology Applications*, 157(13): 2052-2058, 2010.
10. Anulekha Dhara, Aparna Mehra: Approximate optimality conditions for minimax programming problems. *Optimization*, 59(7): 1013-1032, 2010.
11. B.S. Panda, D. Pradhan: Locally connected spanning trees in cographs, complements of bipartite graphs and doubly chordal graphs. *Information Process Letters*, 110(23): 1067-1073, 2010.
12. B.S. Panda, Anita Das: Tree 3-spanners in 2-sep chordal graphs: characterization and algorithms. *Discrete Applied Mathematics*, 158(17): 1913-1935, 2010.
13. S.C.S. Rao, S. Kumar, M. Kumar: A parameter-uniform B-spline collocation method for singularly perturbed semilinear reaction-diffusion problems. *Journal of Optimal Theory Applications*, 146(3): 795-809, 2010.
14. Mukesh Kumar, S.C.S. Rao: High order parameter-robust numerical method for time dependent singularly perturbed reaction-diffusion problems. *Computing*,

90(1-2): 15-38, 2010.

15. S.C.S. Rao, S. Kumar: A robust numerical method for singularly perturbed semilinear convection-diffusion problems. *Neural Parallel Science Computing*, 18(2): 155-165, 2010.

16. S.C.S. Rao, Mukesh Kumar: A uniformly convergent exponential spline difference scheme for singularly perturbed reaction-diffusion problems. *Neural Parallel Science Computing*, 18(2): 121-135, 2010.

17. Mukesh Kumar, S.C.S. Rao: High order parameter-robust numerical method for singularly perturbed reaction-diffusion problems. *Applied Mathematical Computing*, 216 (4): 1036-1046, 2010.

18. Sumit Kaur Bhatia, K. Sreenadh: Multiple positive solutions for a quasilinear elliptic equation with critical exponential nonlinearity. *Nonlinear Analysis*, 73(8): 2368-2382, 2010.

19. Sumit Kaur Bhatia, K. Sreenadh, R. Dhanya: On multiplicity of positive solutions for quasilinear equation with co-normal boundary condition. *Advanced Nonlinear Studies*, 10(3): 511-536, 2010.

20. J. Giacomoni, S. Prashanth, K. Sreenadh: Multiple positive solutions for the N-Laplace equation with nonlinear Neumann boundary conditions. *Differential Integral Equations*, 23(3-4): 201-222, 2010.

21. M. Gupta, R.K. Sharma, J.B. Srivastava: A note on groups of finite weight. *Southeast Asian Bulletin of Mathematics*, 34(3): 425-427, 2010.

22. Dhara, B.; Sharma, R. K. On the annihilators of derivations with Engel conditions in prime rings. *Tamsui Oxf. J. Math. Sci.* 26, no. 3, 255-264, 2010.

23. Dhara, Basudeb; Sharma, Rajendra K. On additive mapping in semiprime rings with left identity. *Algebras Groups Geom.* 27, no. 2, 143-147, 2010.

24. Joshi, Kanchan; Sharma, R. K. Strongly prime radical of group algebras. *Beiträge Algebra Geom.* 51, no. 2, 417-425, 2010.

25. Sharma, Rajendra; Shah, Sudesh The maximal semiregular ideal of rings and group rings. *Lobachevskii J. Math.* 31, no. 1, 51-59, 2010.

26. V. Bovdi, J.B. Srivastava: Lie nilpotency indices of modular group algebras. *Algebra Colloquium*, 17(1): 17-26, 2010.

27. Amitabh Tripathi: A note on products of primes that differ by a fixed integer. *Fibonacci Quart.* 48(2): 144-149, 2010.