

Research Publications by Faculty Members in 2009

Journals

1. B. Chandra, P. Paul: Fuzzifying Gini Index based Decision Trees. *Expert Systems Appl. Elsevier*, 36(4): 8549-8559, 2009.
2. B. Chandra, P. Paul: Moving towards efficient Decision Tree Construction, *Information Science . Elsevier*, 179(8): 1059-1069, 2009.
3. Reshma Khemchandani, Jayadeva and Suresh Chandra, Knowledge Based Proximal Support Vector Machines, *European Journal of Operational Research*, Vol. 195, No. 3, pp. 914-923 (2009).
4. Reshma Khemchandani, Jayadeva and Suresh Chandra, Regularized Least Squares Fuzzy Support Vector Regression for Financial Time Series Forecasting, *Expert Systems with Applications*, Vol. 36, No. 1, pp. 132-138, January (2009).
5. Reshma Khemchandani, Jayadeva and Suresh Chandra, Optimal Kernel Selection in Twin Support Vector Machines, *Optimization Letters*, Vol. 3, No. 1, pp. 77-88, (2009).
6. Vaneeta Jindal and S. Dharmaraja: Call processing delay analysis in cellular networks: a queueing model approach, *Opsearch*, 46 (2009) PP. 289 - 302.
7. Kundu, Subiman; Garg, Pratibha The dual of $C_{\text{ps}}(X)$. *Positivity* 13 (2009), no. 2, 367--384.
8. Kundu, S.; Garg, Pratibha The compact-open topology: a new perspective. *Topology Appl.* 156(2009), no. 4, 686--696.
9. Vivek Kumar and Mani Mehra, "Wavelet optimized finite difference method using interpolating wavelets for self-adjoint singularly perturbed problems", *Journal of Computational and Applied Mathematics*, Vol. 230, pp. 803--812, 2009.
10. Panda, B. S.; Das, Anita Tree 3-spanners in 2-sep directed path graphs: characterization, recognition, and construction. *Discrete Appl. Math.* 157 (2009), no. 9, 2153--2169.
11. Panda, B. S.; Das, Sajal K. A parallel algorithm for generating bicompatible elimination orderings of proper interval graphs. *Inform. Process. Lett.* 109 (2009), no. 18, 1041-1046.
12. Sharma, Rajendra K. Right sided ideals and multilinear polynomials with derivations on prime rings. *Rend. Semin. Mat. Univ. Padova* 121 (2009), 243--257.
13. Sharma, R. K. On additive mappings in rings with identity element. *Int. Math. Forum* 4 (2009), no. 13-16, 727--732.
14. Dkhara, B.; Sharma, R. K. Vanishing powers of commutators with derivations.

(Russian) Sibirsk. Mat. Zh. 50 (2009), no. 1, 75--81; translation in Sib. Math. J. 50 (2009), no. 1, 60-65.

15. J. Giacomoni, S. Prashanth and K. Sreenadh, Uniqueness and multiplicity results for a N-Laplace equation with critical and singular nonlinearity, Asymptotic Analysis, Vol.61, (2009), 195-227.

16. J. Giacomoni, S. Prashanth and K. Sreenadh, $W^{1,N}$ versus C^1 local minimizers for elliptic functionals with critical growth in \mathbb{R}^N , C.R. Academy of Math. Sci, Vol.347, no.5-6, (2009), 255-260

17. Bhatia Sumit Kaur and K. Sreenadh, Multiple positive solutions for a singular Biharmonic equation, Complex variables and Elliptic equations, Vol. 54, no.1, (2009), 9-21.

18. Bhatia Sumit Kaur and K. Sreenadh, Multiple positive solutions for a singular elliptic equation with Neumann boundary condition in two dimensions, Electronic Journal of Differential Equations, Vol. 2009, (2009), No.43, 1-13.

19. Tripathi, Amitabha On the largest size of a partition that is both s -core and t -core. J. Number Theory 129(2009), no. 7, 1805--1811.

Conference Proceedings

1. Shiblee, B. Chandra and P. K Kalra, New Neuron Model for Blind Source Separation, Lecture Notes in Computer Science, LNCS 5507 (Springer Berlin/Heidelberg) 27-36,2009.

2. Shiblee, P. K.Kalra and B. Chandra, Time Series Prediction with Multilayer Perceptron (MLP): A New Generalized Error based approach, Lecture Notes in Computer Science, LNCS 5507 (Springer Berlin/Heidelberg) 37-44,2009.

3. B. K. Tripathi, B. Chandra, , P. K. Kalra, The Generalized Product Neuron Model in Complex Domain, Lecture Notes in Computer Science, LNCS 5507 (Springer Berlin/Heidelberg) 867-876, 2009.

4. Niladri Chatterjee, Sumit Bisai and Prasenjit Chakraborty. Ranking of Products through Blog Analysis. Proc. 1st IHCI-2009, IIIT Allahabad, India, Springer, pp 246 -253, 2009.

5. Niladri Chatterjee and Rohit Mishra. Word-Sense Disambiguation using Maximum Entropy Model. Proc. International Conference on Methods and Models in Computer Science (ICM2C09), IEEE Explorer, ISBN 9789380 043579, pp 154 -158, 2009.

6. Niladri Chatterjee and Nishant Agarwal. Ranking Products through Interpretations of Blogs Based on User's Query. Proc. International Conference on Methods and Models in Computer Science (ICM2C09), IEEE Explorer, ISBN 9789380043579, pp 204 -209, 2009.

7. Anjana Gupta, Davinder Bhatia and Aparna Mehra: Nonconvex vector minimization with set inclusion constraints, Modeling, Computation and

Optimization, S. K. Neogy, A. K. Das, R. B. Bapat (eds.), World Scientific Proceedings of ISI Delhi Conference, pp. 137-154, 2009.

8. Deepali Gupta and Aparna Mehra: Approximate Optimality in Semi Infinite Programming, Modeling, Computation and Optimization, S. K. Neogy, A. K. Das, R. B. Bapat (eds.), World Scientific Proceedings of ISI Delhi Conference, pp. 155-169, 2009.

9. Mani Mehra, "Wavelets and Differential equations-A short review", MODELLING OF ENGINEERING AND TECHNOLOGICAL PROBLEMS: International Conference on Modelling and Engineering and Technological Problems (ICMETP) and the 9th Biennial National Conference of Indian Society of Industrial and Applied Mathematics (ISIAM), AIP Conference Proceedings, Vol. 1146, pp. 241--252, 2009.

10. Pandey, Ram Krishna; Tripathi, Amitabha On the density of integral sets with missing differences. Combinatorial number theory, Proc. 3rd `Integers Conference 2007, 157--169, Walter de Gruyter, Berlin, 2009.