

# 1 Research Papers Produced

Calender year	2008	2009	2010	2011	2012	2013	2014	2015(Accepted )	Total
Papers Published	9	30	52	83	74	57	52	22	379

## 1.1 Research Papers Published in 2008

1. D. Shukla, S. Jain, and Umesh Singh: *A Markov chain model for deficit round robin alternated (DRRA) scheduling algorithm*, Proc. of the Intern. Conf. on Mathematics and Computer Science, Dept of Mathematics, Loyola College, Chennai, 52-61, 2008.
2. A. Gupta, B. Mukherjee, and S. K. Upadhyay: *Weibull extension model: A Bayes study using Markov chain Monte Carlo simulation*, Reliab. Engng. Syst. Safety, 19(10), 1434-1443, 2008.
3. S. K. Upadhyay and Bhaswati Mukherjee: *Assessing the value of the threshold parameter in the Weibull distribution using Bayes paradigm*, IEEE Transactions on Reliability, 57(3), 489-497, 2008.
4. P. K. Singh, S. K. Singh and Umesh Singh: *Bayes estimator of inverse Gaussian parameters under general entropy loss function using Lindleys approximation*, Communication in Statistics-Simulation and Computation, 37, 1750-1762, 2008.
5. G. P. Singh, S. K. Singh, Umesh Singh, and S. K. Upadhyay: *Bayes estimators of exponential parameters from censored sample using a guessed estimate*, Data Science Journal, 7, 106-114, 2008.
6. Umesh Singh, K. K. Singh, S. K. Singh, Brijesh P. Singh and Neha Singh: *A Bayesian approach for estimating risk of child mortality*, Population, Poverty and Health: Analytical Approach, Hindustan Publishing Corporation (India), 36-44, 2008.
7. Umesh Singh, S. K. Singh, P. K. Singh, S. K. Upadhyay and R. D. Singh: *Bayes Estimator of Weibull Parameters under General Entropy Loss Function*, Journal of Scientific Research, B.H.U., Varanasi, Vol. 52, pp. 249-262, 2008.
8. Umesh Singh, Sanjay Kumar Singh, R. Singh and G. P. Singh: *Bayes Estimator of Generalized Exponential Parameters under Linex Loss Function using Lindley's Approximation*, Data Science Journal, Vol. 7, pp 65-75, 2008.
9. Umesh Singh, R. Singh, Sanjay Kumar Singh and R. D. Singh: *Bayes Estimator of Weibull Parameters under LINEX Loss Function using Lindley's Approximation*, Progress of Mathematics, Banaras Hindu University, Varanasi - 221005, Vol. 41 , 42, 2008.

## 1.2 Research Papers Published in 2009

1. Harish Chandra and Arvind Bhatt: *Fixed point theorems for occasionally weakly compatible maps in probabilistic semi-metric space*, International Journal of Mathematical Analysis, 3(12), 563-570, 2009.
2. S. K. Upadhyay, R. N. Yadav and Lokenath Debnath: *The n-Dimensional continuous wavelet transformation on gelfand and shilov type spaces*, Surveys in Mathematics and its Applications, 4, 239-252, 2009.

3. R. S. Pathak and S. R. Verma: *Eigenfunction wavelet transform*, Integral Transforms and Special Functions, 20(12), 883-896, 2009.
4. R. S. Pathak and Ashish Pathak: *Asymptotic expansions of the wavelet transform for large and small values of  $b$* , International J. Math. and Math. Sc., Art. Id. 270492, 2009.
5. Harish Chandra and Arvind Bhatt: *Fixed point theorems for pairs of multivalued mappings*, Kochi Journal of Mathematics, 4, 101-108, 2009.
6. V. Srivastava and K. N. Rai: *Approximate analytical solution of 3D fractional micro scale heat equation using modified homotopy perturbation method*, Appl. Math. Sci., 3(29-32), 1557-1565, 2009.
7. Rahul, Gyan Prakash Singh and Om Prakash Singh: *Population projection of Kerala Using Bayesian Methodology*, Asian Journal of Applied Sciences, 2009.
8. V. Srivastava, K. N. Rai and S. Das: *Analytical approach to micro scale bio-film heat transport using homotopy perturbation method*, International Journal of Applied Mathematics and Computation, 1(3), 148158, 2009.
9. K.N. Rai and V. Srivastava: *Mathematical modeling of first to third degree burn injury by sinusoidal heating source*, International Journal of Applied Mechanics and Engineering, 14, 489-500, 2009.
10. Rajeev, K.N. Rai and S. Das: *Numerical solution of a moving-boundary problem with variable latent heat*, International Journal of Heat and Mass Transfer, 52(7-8), 1913-1917, 2009.
11. Rajeev, K. N. Rai and S. Das: *Solution of one-dimensional moving boundary problem with periodic boundary conditions by variational iteration method*, Thermal Science, 13(2), 199-204, 2009.
12. Ashok K. Singh and B. S. Bhadauria: *Finite Difference Formulae for Unequal Sub-Intervals Using Lagranges Interpolation Formula*, International Journal of Math. Analysis, 3(17), 815-827, , 2009.
13. B. S. Bhadauria, Atul K. Srivastava and Lokenath Debnath: *Onset of Convection in Gravity Modulated Anisotropic Porous Medium*, GAMSJMM (B), 2(1-2), 2009.
14. S. K. Mishra and J. S. Rautela: *On non-differentiable minimax fractional programming under generalized -type I invexity*, J. Appl. Math. Comput., 31(1-2), 317-334, 2009.
15. S. K. Mishra and J. S. Rautela: *On Nonlinear multiple objective fractional programming involving semi locally type- I univex functions*, Optimization Letters, 3, 171-185, 2009.
16. S. K. Mishra, S. Y. Wang and K. K. Lai: *Symmetric duality for minimax mixed integer programming problems with pseudo-invexity*, European Journal of Operational Research, 198, 37-42, 2009.
17. S. K. Mishra, R. P. Pant and J. S. Rautela: *Generalized -univexity and duality for non-differentiable minimax fractional programming*, Nonlinear Analysis- Theory, Methods and Applications, 70, 144-158, 2009.
18. Lean Yu, K. K. Lai and S. K. Mishra (Eds.): *Proceedings of the Second International Joint Conference on Computational Sciences and Optimization*, IEEE Computer Society, 2009.

19. Rahul Singh, S. K. Singh, Umesh Singh and G. P. Singh: *Bayes Estimator of Generalized-Exponential Parameters Under general Entropy Loss Function Using Lindley,s Approximation*, Statistics in Transition-new series, 10(1), 109-127, 2009.
20. Rahul Singh, S. K. Singh, Umesh Singh and R. D. Singh: *Bayes Estimator of Weibull Parameters using Lindley's Approximation under General Entropy Loss Function*, Journal of Scientific Research, Banaras Hindu University, Varanasi, Vol. 53, pp. 127-145, 2009.
21. Umesh Singh, G. Singh, B. P. Singh and Anil Kumar: *Bayesian Estimation of Scale Parameter of Classical Pareto Distribution Under Multiply Type-II Censoring*, Journal of Scientific Research, Vol. 53, 147-162, 2009.
22. Umesh Singh, K. K. Singh, Sanjay Kr. Singh, Brijesh P. Singh and Neha Singh: *A Bayesian Approach for Estimating Risk of Child Mortality*, Population Poverty and Health, Hindustan Pub. Corp., New Delhi, 2009.
23. S. K. Upadhyay, Bhaswati Mukherjee and Ashutosh Gupta: *Accelerated Test System Strength Models Based on Birnbaum-Saunders Distribution: A Complete Bayesian Analysis and Comparison*, Lifetime Data Anal., 15, 379-396, 2009.
24. H. K. Singh, G. P. Singh, R. D. Singh, Rahul and O. P. Singh: *Modelling of Distribution of Age at marriage: A Bayesian Approach*, Population, Gender and Health in India: Methods, Processes and Policies, Academic Foundation, New Delhi, 89-108, 2009.
25. S. M. Z. Khurshid, Rohit and G. P. Singh: *Levels and Trends of Competition Among the Mutual Funds in India*, Research Journal of Business Management, Academic Journals Inc., America, 3(2), 47-67, 2009.
26. Rahul Singh, S. K. Singh, Umesh Singh and R. D. Singh: *Bayes Estimator of Weibull Parameters Using Lindleys Approximation under General Entropy Loss Function*, J. of Scientific Research, Banaras Hindu University, 53, 127-145, 2009.
27. R. C. Yadava, Mahendra Pratap, and Anup Kumar: *Certain Methodological Issues on the Sample Size in National Family Health Survey (NFHS)*, Proceeding of Thirty First Annual Conference of IASP- 2009.
28. G. P. Singh: *Bayesian Method and Application of WINBUGS*, Proceeding of Pre conference Workshop on Advance Statistical and Epidemiological Techniques in Medical Research Sponsored by MCI, New Delhi, 61-79, 2009.
29. R. P. Malik, B. P. Mandal and S. K. Rai: *Absolute Anticommutativity of the Nilpotent Symmetries in the Hamiltonian Formalism: Free Abelian 2 - Form Gauge Theory*, Int. J. Mod. Phys. A, 24, 6157-6176, 2009.
30. Brijesh P. Singh, Sanjay Kr. Singh, K. K. Singh, Umesh Singh and Neha Singh: *A Bayesian Analysis of Risk of under Five Mortality in Two Contrasting State of India*, Jamsamkhya, 2009.

### 1.3 Research Papers Published in 2010

1. Harish Chandra and Bina Singh: *Extremal non-compactness of the form  $u(\phi)$  on the Disc Algebra*, Math. Vesnik, 62(1), 19-22, 2010.
2. Harish Chandra and Pradeep Kumar: *Ascent and Descent of composition operators on  $l_p$  spaces*, Demonstratio Mathematica, XLIII(1), 161-166, 2010.
3. Harish Chandra and Pradeep Kumar: *Ascent and Descent of product and sum of composition operator on  $l_p$  spaces*, Journal of Scientific Research, Banaras Hindu University, 54(1-2), 223-231, 2010.
4. R. S. Pathak and S. R. Verma: *Wavelet Transform, Integral Transforms and Special Functions*, 20(12), 883-896, 2010.
5. S. K. Upadhyay, R. N. Yadav, Lokenath Debnath: *Pseudo-differential operators on  $W(C^m)$  space*, Journal of Int. Acad. of Physical Sc., 14, 53-60, 2010.
6. V. Srivastava and K. N. Rai: *A multi-term fractional diffusion equation for oxygen delivery through a capillary to tissues*, Mathematical and Computer Modelling, 51(5-6), 616-624, 2010.
7. S. Das, P. K. Gupta, V. S. Pandey and K. N. Rai: *Application of He's Homotopy Perturbation Method to Fractional Diffusion Equations*, Zeitschrift fr Naturforschung, 65a (1), 53-58, 2010.
8. J. B. Shukla, A. K. Misra, Ram Naresh and Peeyush Chandra: *How artificial rain can be produced? A mathematical Model*, Nonlinear Analysis: Real World Applications, 11, 2659-2668, 2010.
9. A. K. Misra and B. Dubey: *A ratio dependent predator-prey model with delay and harvesting*, Journal of Biological Systems, 18(2), 437453, 2010.
10. A. K. Mishra: *Modelling the depletion of dissolved oxygen in a lake due to submerged macrophytes*, Nonlinear Analysis: Modelling and Control, 15(2), 185198, 2010.
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12. B. S. Bhadauria and Atul K. Srivastava: *Magneto-Double Diffusive Convection in an electrically conducting-fluid-saturated Porous Medium with Temperature Modulation of the Boundaries*, Int. Journal of Heat and Mass Transfer, 53, 25302538, 2010.
13. K. N. Mehta and B. S. Bhadauria: *Modelling the role of fluctuations in volume on self-purification of natural water bodies*, Asian Journal of Water, Environment and Pollution, 7(4), 63-69, 2010.
14. B. S. Bhadauria and Shilpi Agarwal: *Natural Convection in a Nanofluid Saturated Rotating Porous Layer: A Nonlinear Study*, Transp Porous Med, doi: 10.1007/s11242-010-9702-9, 2010.
15. B. S. Bhadauria and Aalam Sherani: *Magnetoconvection in a Porous Medium subject to Temperature Modulation of the Boundaries*, Proc. Nat. Acad. Sci. A., 80(1), 47-58, 2010.

16. Anoj Kumar and B. S. Bhadauria: *Thermal Instability in a rotating anisotropic porous layer saturated by a viscoelastic fluid*, Int. J. of non-linear mechanics, doi:10.1016/j.ijnonlinmec.2010.07.002., 2010.
17. Anoj Kumar and B. S. Bhadauria: *Non-linear Two dimensional Double Diffusive Convection in a Rotating Porous Layer Saturated by a Viscoelastic Fluid*, Transp Porous Med, doi: 10.1007/s11242-010-9677-6., 2010.
18. Atul Kumar Srivastava and B. S. Bhadauria: *Magnetoconvection in an anisotropic porous layer using thermal non-equilibrium model*, Special topics and reviews in porous media, S.No. 59, Bengal House, USA, 2010.
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21. Shilpi Agarwal, B. S. Bhadauria and P. G. Siddheshwar: *Thermal Instability of a Nanofluid saturating in rotating anisotropic porous medium*, Special topics and reviews in porous media, 02(1), 2010.
22. L. P. Singh, Akmal Husain and O. P. Singh: *An Approximate Analytical Solution of Imploding Strong Shocks in a Non-Ideal Gas through Lie Group Analysis*, Chin. Phys. Lett., 27(1), 014702, 2010.
23. S. Dixit, S. Kumar and O. P. Singh: *An analytical algorithm for solving system of fractional differential equation*, Jour. of Mod. Math. and Non-lin. Modelling, 1(2), 12-26, 2010.
24. Rahul, G. P. Singh and O. P. Singh: *Using WinBUGS to Study Logistic Growth Model with an Application to Population Projection of Uttar Pradesh and Uttaranchal*, Indian Journal of Preventive and Social Medicine, 41, 67-74, 2010.
25. M. K. Singh and O. P. Singh: *Intelligent Indexing of Image Databases Using Evolving Fuzzy Clustering*, Technical Journal of LBSIMDS, 1(1), 10-15, 2010.
26. Akshara Pande and Manjari Gupta: *Design pattern Detection using Graph Matching*, International Journal on Computer Engineering and Information Technology, SERC, 15, 2010.
27. Akshara Pande, Manjari Gupta and A. K. Tripathi: *A New Approach for Detecting Design Patterns by Graph Decomposition and Graph Isomorphism*, International Conference on Contemporary Computing - Systems (Hardware and Software), CCIS(Springer-Verlag Berlin Heidelberg), 95(2), 108-119, 2010.
28. Akshara Pande, Manjari Gupta and A. K. Tripathi: *A Decision Tree Approach for Design Patterns Detection by Subgraph Isomorphism*, International Conference on Advances in Information and Communication Technologies, Kochi, Kerala, CCIS(Springer-Verlag Berlin Heidelberg), 101(3), 561-564, 2010.

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30. Akshara Pande, Manjari Gupta and A. K. Tripathi: *A New Approach for Detecting Design Patterns by Graph Decomposition and Graph Isomorphism*, In Proc. Of Third International Conference on Contemporary Computing (IC3) published by Springer, Noida, India, 09-11 August, 2010.
31. Akshara Pande, Manjari Gupta and A. K. Tripathi: *DNIT A New Approach for Design Pattern Detection*, Proc. Of International Conference on Computer and Communication Technology (ICCCT-2010), also will be published in IEEEExplore. 17-19 September, 2010, MNNIT, Allahabad, 545-550.
32. S. K. Upadhyay and Ashutosh Gupta: *A Bayes Analysis of Modified Weibull Distribution via Markov Chain Monte Carlo Simulation*, J. Statist. Comput. Simul., 80(3), 241-254, 2010.
33. S. K. Upadhyay and Bhaswati Mukherjee: *Bayes Analysis and Comparison of Accelerated Weibull and Accelerated BirnbaumSaunders Models*, Commun. Statist.Theor. Meth., 39, 195-213, 2010.
34. S. K. Upadhyay: *Common Failure Distributions*, Wiley Encyclopedia of Operations Research and Management Science (ed. James J. Cochran), John Wiley, 1-11, 2010.
35. S. K. Upadhyay: *Hazard Rate Function*, Wiley Encyclopedia of Operations Research and Management Science (ed. James J. Cochran), John Wiley, 1-7, 2010.
36. Umesh Singh, Sanjay Kumar Singh, Dinesh Kumar and G. P. Singh: *Bayesian Estimation of the Reliability Function and Parameter of Inverted Exponential Distribution using Informative and Non-Informative Priors*, Proceedings of National Seminar on Impact of Physics on Biological Science, pp 174-185, 2010.
37. Umesh Singh, Sanjay Kumar Singh, G. P. Singh and K. K. Singh: *Bayes Estimates of Model For Waiting Time to First Birth: Population and Reproductive Health*, Hindustan Publishing Corporation (India), pp. 239-244, 2010.
38. Umesh Singh, G. P. Singh, Sanjay Kumar Singh and K. K. Singh: *Modelling of Child Death Experienced by Women in their Reproductive Life Span: A Bayesian Study*, Population and Reproductive Health, Hindustan Publishing Corporation (India), pp. 206-215, 2010.
39. G. P. Singh, S. K. Singh, Umesh Singh and Rahul: *Modeling of Child Death Experienced by Women in their Reproductive Life Span: A Bayesian Study*, 31st Annual conference of Indian Association for the study of population Nov. 03-05, 2009 held at Sri Venkateswara University Tirupati, proceedings of XXXI Annual Conference IASP on population and Disease, 2010.
40. R. C. Yadava, Sushil Kr. Yadav and Anup Kumar: *Is The Breastfeeding Only Factor Affecting Post-Partem Amenorrhoea: Some Evidences Through NFHS-3 Data*, Indian Journal of Maternal and Child Health, 12(3),1-12, 2010.
41. Brijesh P. Singh, Neha Singh and K. K. Singh: *Impact of females autonomy on Domestic Violence: A comparison of North-South states*, 2010.

42. H. K. Singh, R. D. Singh, G. P. Singh and Alok Kumar: *Influence of Sex Composition on Demand of Child in Uttar Pradesh*, Indian Journal of Preventive and Social Medicine, 2010.
43. Veena Singh and Arun K. Srivastava: *On some coreflective hulls in BFTS*, Quaestiones Mathematicae, 33, 391-398. DOI: 10.2989/16073606.2010., 2010.
44. Arun K. Srivastava and S. P. Tiwari: *IF topologies and IF automata*, Soft Computing, 14, 571-578, 2010.
45. S. K. Mishra, M. Jaiswal and Pankaj: *Optimality conditions for multiple objective fractional subset programming with invex and related non-convex functions*, Communications on Applied nonlinear Analysis, 17(3), 89-101, 2010.
46. S. K. Mishra and Kalpana Shukla: *Non smooth minimax programming problems with V - r-invex functions*, Optimization, 59, 95-103, 2010.
47. S. Gupta, R. Kumar and R. P. Malik: *On Free 4D Abelian 2-form and anomalous 2D Abelian 1-form gauge theories*, Eur. Phys. J. C, 65, 311-329, 2010.
48. Saurabh Gupta and R. P. Malik: *Rigid rotor as a toy model for Hodge theory*, Eur. Phys. J. C, 68, 325-335, 2010.
49. S. Gupta, R. Kumar and R. P. Malik: *Absolutely Anticommutating (anti-) BRST Symmetry transformations for topologically massive Abelian gauge theory*, Eur. Phys. J. C, 70, 491-502, 2010.
50. R. P. Malik: *Nilpotent (anti-)BRST Symmetry transformations for dynamical nonAbelian 2-form gauge theory: Superfied formalism*, EPL, 91, 51003, 1-5, 2010.
51. Saurabh Gupta and R. P. Malik : *A note on (anti-)BRST Invariant Lagrangian densities for the free abelian 2-form Gauge theory*, Modern Physics Letters A, 25(28), 2457-2467, 2010.
52. L. Bonora and R. P. Malik: *BRST, anti- BRST and their geometry*, J. Phys. A: Math. Theor, 43, Art. No. 375403, 2010.

#### **1.4 Research Papers Published in 2011**

1. R. S. Pathak: *Convolution for the discrete wavelet transform*, International Journal of Wavelets, Multi resolution Analysis and Information Processing, 9(6), 905-922, 2011.
2. R. S. Pathak: *Dual integral equations involving wavelet transforms*, Investigations in Math. Sci., 1, 41-46, 2011.
3. R. S. Pathak, Akhilesh Prasad and Manish Kumar: *n-Dimensional Sobolev type spaces involving Hankel transformation*, Applied Math and Computation , 218, 899-905, 2011.
4. R. S. Pathak: *Convolution for the discrete wavelet transforms*, Int. Journ. of wavelets Multi resolution Analysis and Inform. Process. 9(6), 905-922, 2011.
5. R. S. Pathak: *Variation- diminishing wavelets and wavelet transforms*, Real Analysis Exchange, 37(1), 147-166, 2011.

6. R. S. Pathak: *Dual integral equations involving wavelet transforms*, Investigations in Mathematical Sciences, 1, 41-46, 2011.
7. R. S. Pathak, S. K. Upadhyay and R. S. Pandey: *The Bessel Wavelet Convolution Product*, Rend. Sem.Mat. Politec.Torino, 69(3), 267-279,
8. S. K. Upadhyay, *Hankel Convolution of Ultradistribution of Exponential Growth*, J. Comp. Math. Sci., 3, 2011.
9. S. K. Upadhyay, R. N. Yadav and Lokenath Debnath: *On Continuous Bessel wavelet transformation associated with the Hankel Hausdorff Operator*, Integral Transform and Special function, 23(5), 315-323, 2011.
10. S. K. Upadhyay and Alok Tripathi: *Continuous Watson Wavelet Transform*, Integral Transform and Special function, 2011.
11. S. K. Upadhyay and Ravi Shankar Pandey: *Properties of Hausdorff Operator on a Subspace of  $L^p(R)$* , Investigation in Mathematical Sciences, 1, 127-135, 2011. 2011.
12. S. K. Upadhyay and Ravi Shankar Pandey: *The  $H^p(R)$ - Boundedness of Hausdorff Operator involving wavelet transformation*, Journal of wavelet theory and application, 5(1), 1-7, 2011.
13. S. K. Upadhyay: *Some Characterization of  $H_\mu$ -Type Spaces*, J. Int. Acad. Phys. Sci., 15(1), 2532, 2011.
14. S. K. Upadhyay, Ravi Shankar Pandey and Alok Tripathi: *Some Properties of Bessel wavelet convolution product*, Proc. of Jammu Mathematical Society, 2011.
15. A. K. Misra and Arvind K. Singh: *A mathematical model for unemployment*, Nonlinear Analysis: Real World Applications, 12(1), 128136, 2011.
16. A. K. Misra, Anupama Sharma and J. B. Shukla: *Modeling and analysis of effects of awareness programs by media on the spread of infectious diseases*, Mathematical and Computer Modeling, 53, 12211228, 2011.
17. A. K. Misra, J. B. Shukla, Rashmi Singh and Ashish Goyal: *Modeling the desalination of saline water by using bacteria and marsh plants*, Desalination, 277, 113120, 2011.
18. A. K. Misra, Anupama Sharma and Vishal Singh: *Effect of Awareness Programs in controlling the prevalence of an epidemic with time delay*, Journal of Biological Systems, 19(2), 389-402, 2011.
19. A. K. Misra, J. B. Shukla and Kusum Lata: *Modeling the depletion of a renewable source by population and industrialization: Effect of technology and its conservation*, Natural Resource Modelling Volume, 24(2), 242-267, 2011.
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32. P. K. Mishra: *Complexity of Shortest Path algorithms in High Performance Computing Environment*, International Workshop on Algorithm and Computation, Indian Institute of Technology, New Delhi, Feb 18-20, 2011.
33. P. K. Mishra: *Complexity Analysis of Distributed Shortest Path Algorithms with MPI*, International Conference on New Trends in Life Testing, Bayesian Inference, Sampling Theory, Bio Statistics, Bio Informatics and Computer Applications, Banaras Hindu University, January 5-8, 2011.
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37. Diwakar Shukla, Kapil Verma, Sharad Gangele and Rahul Singhai: *Elasticity Analysis of Web Browsing Behavior of Users*, Int. J. Adv. Net. Appl., 3(3), 1162-1168, 2011.
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39. Diwakar Shukla, Kapil Verma, Sharad Gangele and Manish Trivedi: *Two-Call Based Cyber Crime Elasticity Analysis of Internet Traffic Sharing in Computer Network*, Int. J. Comp. Appl., 2, 27-38, 2011.
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