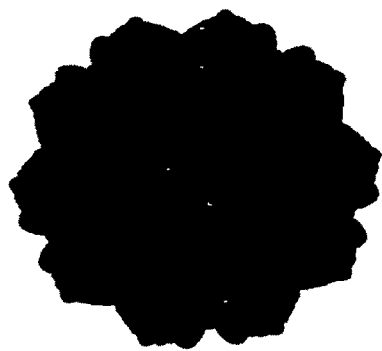


BIBLIOGRAPHY



- [1] Abrahart, R. J. and See, L., "*Neural Network vs ARMA Modelling, Constructing benchmark case studies of river flow prediction*". http://divcom.otago.ac.nz/sirc/geoc98/05/gc_05.htm. (1998).
- [2] Achela, D. Fernando, K. and Jayawardena, A.W., "*Generation and forecasting of monsoon rainfall data*." 20th WEDC Conference, Affordable Water Supply and sanitation, Colombo, Srilanka, pp. 310-313. (1994).
- [3] Agarwal, M.C., Katiyar, V.S. and RamBabu., "*Probability analysis of maximum daily rainfall of U.P., Himalaya*". Indian J. Soil Cons., 16, 1, pp. 35-42. (1998).
- [4] Anita, T. L and William, F. S., "*A semi Lagrangian Double Fourier Method for the Shallow water Equations on the Sphere*". Journal of Computational Physics."189, 1, pp. 180-196. (2003).
- [5] Applications of neural net work.
<http://www.wolfram.com/applications/neuralnetworks/NeuralNetworkTheory>.
- [6] Australian Government, Bureau of Meteorology,
<http://www.bom.gov.au/climate/glossary/soi.shtml>.
- [7] Basu, G.C., "*One day (24-hr) peak rainfall expectation and trend of monsoon Rf at Durgapur*". Regional Meteorological Center, Calcutta. 12, 3 & 4, pp. 35-38 (1982).
- [8] Barger, g. l., Shaw, R.H., Dale, R.F., "*Gamma Distribution Parameters for 2- and 3-Week Precipitation Totals in the North Central. Region of the United States*." Agriculture and Homes Econ. Exp. Sta. Iowa State University, Ames. Iowa, (1959).
- [9] Bhalme, H.N. and Jadhav, S.K., "*The southern oscillation index and its relation to the monsoon rainfall*." J. Climatology. 4, pp. 509-520. (1984).
- [10] Bhatt, V.K., Tiwari, A.K. and Sharma, A.K. "*Probability models for prediction of annual maximum daily rainfall of Datia*". Indian J. Soil Cos. 24, 1, pp. 25-27. (1996).

- [11]Biswas, B.C. and Khambete, N.N. "*Distribution of short period rainfall over dry farming tract of Maharashtra*". J. of Maharashtra Agril. Univ. 4,2, (1979).
- [12]Biswas,B.C. and Basarkar, S.S. "*Weekly rainfall probability over dry farming tract of Gujarat*". Annals of Arid Zone. 21, 3, (1982).
- [13]Biswas,B.C. and his team. "*A report from India meteorological department, Government of India, weekly rainfall probability for selected stations of India*". (1995).
- [14]Bjorn ,W. and john, K. "*Artificial neural networks in weather prediction.*" Project report. June 5 (2001).
- [15]Bocock, K. L., Lindley, D. K., Gill, C. A., Adamson, J. K. and Webster, J. A. "*Harmonic analysis and synthesis, basic principles of the technique and some applications to temperature data .*" Mercewood Res. Dev. no. 54. (1974).
- [16]Bocock,K.L.,Jeffers,J.N.R., Lindley,D.K., Adamson,J.K., and Gill,C.A., "*Estiamting woodland soil temperature from air temperature and other climatic variables.*" Agricultural Meteorology. 18, pp. 351-372. (1977).
- [17]Carson, J.E., "*Analysis of soil and air temperatures by Fourier techniques.*" Journal of Geophysics Research. 68, pp. 2217-2232. (1963).
- [18]Chow, V.T. "*Handbook of Applied Hydrology*". McGraw Hill Bool Co., New York. (1964).
- [19]Chowdhury,A and Ganesan,H.R., "*Man and climatic variability.*" Vayu Mandal, Bulletin of the India Meteorological Society. January-June, pp. 9-13. (1981)
- [20]Chu, Y. P. and Hsieh, C M. "*An artificial neural network model with modified perceptron algorithm, IEEE, 93h , 68120.*" Parallel Comput. 18, 1992, no.9, pp. 983-996. (1964).
- [21]Coe,R. and Stern,R.D., "*Fitting models to daily rainfall data.*" J of Applied Meteorology. 2 ,pp. 1024-1031.(1982).
- [22]Conard, V and Pollock, L. W., "*Methods in climatology.*" Harvard Uni. Press, Cambridge Mass., pp. 119-133. (1950).

- [23]Corne, S.A., Carver, S.J., Kunin, W.E., Lemnon, J.J., and William S van Hees . *"Using Artificial Neural Network methods to predict forest characteristics in southeast Alaska"* GIS/EM4.114 4th International Conference Integrating GIS and Environmental modeling Problems, Alberta, Canada, September 2-8. (2000).
- [24]Cunnane, C. *"Unbiased plotting positions - A review"* . J. Hydrology. 37, pp. 205-222. (1978).
- [25]Cybenko, G., *"Approximation by super position of sigmoidal function, Mathematical control signal system."* 2, pp. 303-314 .(1989).
- [26]Dalrymple, R.A. *"Tidal Prediction with Harmonic Analysis."* Center for Applied Coastal Research University of Delaware, Newark DE 19716 USA.
- [27]Das,H.P., Pujari,A.D. and Chowdhury ,A., *" A simple model to estimate air temperature and soil temperatures under vertisol."* Mausam.45,1,pp.69-74.(1994) .
- [28]Davy, E.G., Mattei, F. and Solomon, S.T. *"An evaluation of climate and water resources for development of agriculture in the Sudano Sahelian zones of West Africa"*, WMD Special Environment Report No. pp. 9. (1976).
- [29]Epperson, D.L.and Dale, R.F. *"Comparison of climatologies for existing heterogeneous temperature records with those for adjusted records for west lafayette and whitestowen."* Indiana Proc. Indiana acad. 92, pp. 395-404. (1983).
- [30]Farmer, J. D. and Sidorowich, J. J., *"Exploiting chaos to predict the future and reduce noise."* LA-UR,pp. 88-901. (1988).
- [31]Fernando, T.K. and Chandrapala,L.,*"Global warming and rainfall variability-the Srilankan situation."* Proc.of the Fifth International meeting on Statistical climatology, Toronto, Canada. pp. 123-126.(1992).
- [32]Fowler, H. J. and Kilsby, C. G. *"A regional analysis of United Kingdom extreme rainfall from 1961 to 2000"*. International Journal of Climatology, 23, pp.1313-1334. (2003).

- [33]French, M.N. Krajewski, W.F. and Cuykendall, R.R. "*Rainfall forecasting in space and time using a neural network*". J. of Hydrology. 137 , pp. 1-31. (1992).
- [34]Friedman and James. "*Estimation of rainfall probabilities.*" State Agr. Expt. Stn. Bull. 332. (1957).
- [35]Gabriel, K.R. and Neuman, I. "*A Markov chain model for daily rainfall occurrences at Tel Aviv*". Quart. J. Roy. Meteorol. Soc. 88 , pp. 90-95. (1962).
- [36]Gadgil, S. "*Climate change and agriculture – an Indian perspective*, pp. 1-18. In , *Climatic Variability and Agriculture*". Abrol, Y.P. et al. (Eds.), Narosa Publishing House, New India. (1996).
- [37]George,R.K., Rammohan, S., Kulshrestha, M.S., Shekh, A M., and Jaita,H. "*Prediction of soil temperature by using Artificial Neural Networks.*" Journal of Agro meteorology. 47, pp. 1737-1748. (2001).
- [38]George,R.K., " *Prediction of soil temperature by using artificial neural networks algorithms.*" Nonlinear Analysis.47, pp.1737-1748.(2001).
- [39]Ghadekar, S. R. "*Meteorology.*" Agromet Publishers, Nagpur. (2001).
- [40]Ghadekar, S. R. "*Practical Meteorology.*" Agromet Publishers, Nagpur. pp. 10. (2002).
- [41]Goel, S.C. and Kathuria, S.N., "*Return analysis of extreme rainfall events.*" Mausam. 35, pp. 531-536. (1984).
- [42]Goswami, P. and Pradeep Kumar, "*Experimental annual forecast of all India mean summer monsoon rainfall for 1997 using a neural network model.*" Curr. Sci. 72, pp. 781-782. (1997).
- [43]Goswami, P. and Srividya, "*A novel neural network design for long range prediction of rainfall pattern.*" Curr. Sci. 35, 70, pp. 447-457. (1996).

- [44]Goswami, P., Gration Crasta, Sreekanth,V.,Shobha K.V.,and Naik Kavitha M. "*Experimental forecast of all India monthly and summer monsoon rainfall using neural network.*" Curr. Sci. 38, 76, pp. 1481-1483. (1999).
- [45]Goudriaan, J. and Waggoner, P. E., "*Simulating both aerial microclimate and soil temperature from observes above the foliar canopy.*" J Agric. Sci. 20, pp. 104-124, (1972).
- [46]Government of India. "*Weekly rainfall probability for selected stations of India.*" India Meteorological department, Division of Agricultural Meteorology, Pune. pp. i-viii. (1995).
- [47]Gowariker, V., Thapliyal, V., Sarker,R.P., Mandal,G.S. and Sikka,D.R., "*Parametric and power regression models.*" New app.roach to long range forecasting of monsoon rainfall in India., Mausam.40, pp.115-122.(1989).
- [48]Grewal, B.S. "*Higher engineering mathematics*".Khanna Publishers,2-B,Nath Market,nai Sarak,Delhi-110006, 36th Edition.(2001).
- [49]Grieger, B. and Latif, M., "*Climate Dynamic.*" 10, pp. 267-276. (1994).
- [50]Gringorten, I.I. "*A plotting rule for extremely probability paper*". J. Geophys. Res., 68, 3 pp. 813-814. (1963).
- [51]Guenni-L., Ojeda-F.,Key-MC. "*Periodic model selection for rainfall using conditional maximum likelihood.*" Environmetrics. 9, 4. pp. 407-417. (1998).
- [52]Guha,M.K., "*Monsson prediction with energies variation.*" Vayu Mandal, Bulletin of India Meteorological Society. January-June, pp. 9-13.(1988).
- [53]Gumbel, E. J., "*Statistics of extremes.*" Columbia Univ. Press, New York. (1958).
- [54]Gupta, R.K., Rambabu and Tejawani, K.G. "*Weekly rainfall of India for crop planning programme*". Soil Cars. Digest, 3, pp. 31-39. (1975).
- [55]Hafzullah Aksoy, "*Use of Gamma Distribution in Hydrological analysis.*" Turk J Engin Environ. Sci. 24 ,pp. 419-428. (2000).

- [56]Hall, M. J. and Minns, A. W., "*Rainfall – runoff modeling as a problem in artificial intelligence experience with a neural network.*" Proc. 4th National Hydrology Symposium, British Hydrological Soc., Credit, pp. 5.51-5.57. (1993).
- [57]Han, C. T., "*Statistical methods in hydrology.*" Iowa State Univ. Press. Ames. (1977).
- [58]Hargreaves, G.H. "*Water requirement manual for irrigated crops and rainfed agriculture*". EMBRAPA and Utah State University Publication, 75-D-158. (1975).
- [59]Haykin "*Neural networks A comprehensive foundation*". Prentice Hall International, Inc. (1999).
- [60]Hecht N. R. "*Applications of counterpropagation networks*". Neural Networks. Vol.(1), pp.131-139. (1998).
- [61]Hecht-Nielsen, R., "*Kolmogorov's mapping Neural Network existence.*" In *proceeding of the International Conference on Neural Networks, San Diego.*" III, , IEEE, New York, pp. 11-14. (1978).
- [62]Hennessey, K. J., Grwgor, J. M., Mitchell, J. F. "*Change in daily precipitation under enhanced green house conditions*". Climate Dynamics Research Division , New York. (1997).
- [63]Hense. "*On the possible existence of a strange attractor for the southern oscillation Beitr*". Phs. Atmosph 60 (1), pp. 34-37. (1987).
- [64]Hongli Jiang and William R. "*Cotton. Soil moisture estimation using an artificial neural network, a feasibility study*". Can. J. Remote Sensing.,Vol. 30 (5) , pp. .827-839 (2004).
- [65]Hsu, K.L., Gupta, H.V. and Sorooshian, S. "*Artificial Neural Network modeling of the rainfall-runoff process*". Water Resources Research, 29,4, pp. .1185-1194. (1993).
- [66]Hsu, K.L., Gupta, H.V. and Sorooshian, S. "*Artificial Neural Network modeling of the rainfall-runoff process*". Water Resources Research, 31, pp. 2517-2530. (1995).

- [67]Hui, S. and Zak, S. H. "*The widrow-hoff algorithm for McCulloch Pitts Type Neuron.*" IEEE. trans. On Neural Network, 5, pp. 924-929. (1991).
- [68]Hundal, S.S. and Abrol, I.P. "*Perspectives of green house gases in climatic change and plant productivity*". In proc. (eds. Abrol et al.), Indo-US workshop on "Impact of global climatic changes on photosynthesis and plant productivity", New Delhi, Jan 8-12. pp. 767-779 (1991).
- [69]Hundal, S.S. and Prabjyot-kaur. "*Climate variability at Ludhiana*". J. Res. Punjab. (2001).
- [70]Hundal, S.S. and Prabhjyot-kaur. "*Annual and seasonal climatic variability at different locations of Punjab state*". J. of Agrometeorology,4,2,pp. 113-125. (2002).
- [71]Jackson, I. J. "*Dependence of wet and dry days in the tropics*". Arch. Met. Geoph. Bioki B, 29 , pp. 167-179. (1981).
- [72]Jacques, B., Heinz, S., Peter, V. H. and Leuenberger. "*Advantages of Artificial neural networks as alternative modeling technique for data sets showing non linear relationships using galenical study on a solid dosage form.*" European Journal of Pharmaceutical sciences ,7, issue1 pp. 5-16. (1998).
- [73]Jagannathan, P., "Trends in the characteristics of seasonal variation of temperature in the arid and semi arid region." Indian J.Met.Geophys.,14, pp. 3(1963)
- [74]Jagannathan, P. and Parthsarthy,B., "*Trends and periodicities of rainfall over India.*" Mon.Weather Rew, 101, pp.371-375. (1973).
- [75]Jagannathan P., Bhalme H.N.,"*Changes in the pattern of distribution of southwest monsoon rainfall over India associated with sunspots.*" Mon. Wea. Rev., 101, 9, pp. .691-700 (1973).
- [76]Jayaywardaena and Lai "*Analysis and Prediction of chaos in rainfall and stream flow time series.*" J. Hydrology 15, 23-52 (1994).
- [77]Jerome, T., Connor, R., Douglas M. and Atlas, L.E. IEEE. "*Transactions on neural networks*", 5, 2, March, (1994).

- [78]Johnson, M. E. and Fitzpatrick, E. A., *"A comparison of methods of estimating a mean diurnal temperature curve during the daylight hours."* Arch. Meteorol. Geophys. Bioklimatol., Ser.B, 25, pp.251-263. (1977).
- [79]Jorge Kazuo Yamamoto, *"Symposium on the Applications of Neural Networks to the earth sciences."* , Seventh International Symposium on Mineral Exploration (ISME-02) held on California from August 20-21. (2002).
- [80]Kar, G., *"Rainfall probability analysis for sustainable crop production strategies in coastal Orissa."* J. Ag. Met., 4,2. pp.181-185. (2002).
- [81]Karl, T. R., Knight R W. *"Secular trends of precipitations amount, frequency , and intensity in the united Sattes"*. Bulletin of the American Metrological Society 79, pp. 231-241. (1998).
- [82]Karunanithi, N., Grenney, W.J., Whitley, D. and Bovee, K.*"Neural Networks for River Flow prediction."* ASCE. J. of Computing in Civil Engineering, 8(2) , (1994).
- [83]Katz, R.W., *"Precipitation as a Chain-Dependent Process"*. Journal of Applied Meteorology, 16, pp. 671- 676. (1977).
- [84]Khambete, N.N. and Biswas, B.C. *"Characteristics of short period rainfall in Gujarat"*. Indian J. Met. Hydrol. Geophys., 29(3) , pp. 521-527. (1978).
- [85]Kingston,G., Lambert,M.,Maier,H. *"Development of stochastic artificial neural networks for hydrological prediction."*Cetre for Applied Modelling in Water Engineering, University of Adelaide,Australia.(2003).
- [86]Koekkoek, E.J.W and Booltink, H. *"Neural Network models to predict soil water retention."* European Journal of Soil Science. pp. 489-495 Sept. (1999).
- [87]Kolmogrove, A. N., *"On the representation of functions of several variables by super-portion of continuous functions of one variable and addition."* Koklady Akademi Nauk USSR 114, pp. 579-681. (1957).

- [88]Krishna Kumar,K.,Rupa Kumar,.K.and Pant,G.B. Kumar,K.,*"Seasonal forecasting of Indian summer monsoon rainfall."* Weatehr,50,(12),pp.449-467.(1995).
- [89]Krishnan and Khushwah, *"Analysis of soil temperatures in the arid zone of India by Fourier techniques."* Agrc.Meteoro.,10, pp. . 55-64 (1972).
- [90]Kulshrestha, M. S., Shekh, A. M., Bapuji Rao, B. and Upadhyay, U G. *"Extreme Value Analysis of Rainfall of Krishna Godavari Basin, Andhra Pradesh."* Water & Energy 2001 9-12 Oct. 1995. Proc., pp. 96-101, (1995).
- [91]Kulshrestha, M. S., Shekh, A. M., *"Extreme Value Analysis of Rainfall of Gujarat."* Vayu Mandal, Bulletin of India Meteorological Society, January-December, pp. 45-48, (1999).
- [92]Kulshrestha, M.S. and Shekh, A.M. *"Estimation of Soil temperature by Harmonic Analysis"*. Mausam, 52, 2 pp. 379-384. (April 2001).
- [93]Kulshrestha, M.S., George, R.K. and A.M. Shekh, " *Prediction of the rainfall of the Anand station of Gujarat using Artificial Neural Network* " J. of Agro-meteorology, 6 , pp.233-236 (2004).
- [94]Kulshrestha, M.S., Shekh, A.M. and Parmar, R.S. *"Rainfall probability Analysis using Incomplete Gamma Distribution"*.Proc.of "International Conference on Managing Natural Resources for Sustainable Agricultural Production in the 21st Century". IARI, New Delhi 14-18 Jan. proc. II ,pp.600-603.(2000).
- [95]Kung, E.C. and Sharif, T.A. *"Regression Forecasting of the Onset of the Indian Summer Monsoon with Antecedent Upper Air Conditions."* J. Appl. Met., 19 , pp. 370-380. (1980).
- [96]Kung, E.C. and Sharif, *"Long-range forecasting of the Indian summer monsoon onset and rainfall with upper air parameters and sea surface temperature."* T.A. J. Met. Soc., Japan, Ser. II, 60,pp. 672-681. (1982).
- [97]Laurent Bougrain, aria Gonzalez, Vincent Bouchot, G. Stein, Cassard Danie and Frederic Alexandre. *"Knowledge Recovery for continent Scale Metal Exploration by Neural Networks."*

- [98]Lemon, E., Stewart, D. W., and Shawcraft, R. W., "*The Sun's works in a cornfield science.*" 174, pp. 371-378. (1971).
- [99]Liakatas, A., "*Harmonic analysis and modeling of annual soil temperatures variations.*" *Mausam*, 45 2(2), pp. 121-128. (1994).
- [100]Linderman, M., Liu, J., Qi, J., An, L., Ouyangs, Z., Yang, J. and Y. Tan. Using "*Artificial Neural Networks to Map the Spatial Distribution of Understory Bamboo from Remote Sensing Data*". *INT. J. Remote sensing*, 10 May, 2004 Vol. 25, No.9 1685-1700.
- [101]Lorenz, E.N. "*Deterministic non periodic flow*". *J. Atmos. Sci.*, 20,pp. 130-141. (1963).
- [102]Lukaniszyn, M L; M Jagiela; R Wrobel; K Latawiec. "*2D harmonic Analysis of the cogging torque in synchronous permanent magnet machines. COMPEL*". *Int. J. For Computation and Maths.in Electrical Eng.*, Volume 23 (3), pp. 774-782. (2004).
- [103]Markovic, R. D., "*Probability Functions of Best Fit to Distributions of Annual Precipitation and Runoff.*" *Hydrology Paper*, No.8, Colorado State University, Fort Collins, Colorado, (1965).
- [104]Marshall, J. Ash., "*Uniqueness for spherically convergent multiple trigonometric series, Hand book of analytic-computational methods in applied mathematics.*",G.Anastassiou ed., Chapman & Hall/CRC,Boca Ration,pp. 309-355.(2000).
- [105]Mc. Culloch, W. S. and Pitts, W. A. "*Logical calculus of the ideas imminent in nervous activity.*" *Bull. Math. Biosphys. J.*, pp. 115-133. (1943).
- [106]Molla,S.I.,Kenimer,A.L.,Reddell,D.L.,Morton,A.D. and Sabbagh,G.J., wind speed simulation using double fourier transformation." *American Society of Agricultural Engineers Annual Meeting*, Orlando, Florida, USA,12-16July,1998., ASAE Paper No.984085 pp. 5.(1998).
- [107]Mooley, D.A. "*Gamma distribution probability model for Asian summer monsoon monthly rainfall*". *Monthly Weather Review*, U.S. Dept. of Com. NOAA. 101(2) , 160-176. (1973).

- [108]Mooley, D.A. and Appa Rao, G. "*Statistical distribution of pentad rainfall over India during monsoon season*". Indian J. Met. Geophys., 21(2) , pp. 219-230. (1970).
- [109]Mukherjee, K., Surinder Kaur and Mehra, A. K., "*Applicability of extreme value distribution for analysis of rainfall over India*." Mausam, 42, pp. 29-32. (1991).
- [110]Murphy, A. H. and Katz, R.W. , "*Probability, Statistics, and decision Making in the Atmospheric Sciences*". Westview Press/Boulder and London, Colorado, pp. 289-329. (1985).
- [111]Myrup, L. O., "*A Numerical Model of the urban Heat Island*." J. Appl. Meteorology, 8, pp. 908-918. (1969).
- [112]Nor Irwan, A. Nor., Harun, S. and Amir Hashim Mohd. Kasim. "*Rainfall -Runoff modeling using artificial neural network*." Proc. NSF Workshop. Kuala Lumpur, Dept. of Hydraulic and Hydrologic, Faculty of Civil Engineering, Universiti Teknologi Malaysia, 81310 UTM Skudai, Johor, email, pa003009@siswa.utm.my. (2001).
- [113]Nuttonson, M.Y., "*Wheat climate relationship and the use of phenology in ascertaining the thermal and photo thermal requirements of wheat*.", Am. Inst. Crop Ecol., Wasington DC (1955).
- [114]Osborn, T. J., Hulme, M., Jones, P. D., BASnett T A., "*Observed trends in the daily intensity of United Kingdom Precipitation*." International Journal of Lcimatology 20, pp. 347-364. (2000).
- [115]Panigrahi, B. "*Prob. Analysis of short duration rainfall for crop planning in coastal Orissa*". Ind. J. Soil Cons., 26, 2 , pp. 178-182. (1998).
- [116]Panofsky, H. A. and Brier, G. W., "*Some applications of statistics to meteorology*." Penn. State Univ. Press. 254, pp. 153-160 (1958).
- [117]Panse, V.G. and Sukhatme, P.V. "*Statistical methods for agricultural workers*". 4th Ed., ICAR, New Delhi, pp. 359. (1985).

- [118]Pant, G. B. and Rupa Kumar, K., "*Climates of South Asia.*" <http://www.wiley.com> John Wiley & Sons Ltd. Baffins Lane, Chichester, West Sussex PO19 1UD, England.pp. 133-176. (1997).
- [119]Paranjpe,S.A. and Gore,A.P., " *A parsimonious model for prediction of monsoon rainfall in India.*" Current Science, 60, 7, pp. 446-448, (1991).
- [120]Parthsarthy,B. and Sonatake, N.A., " *El-Ninao/SST of Puerto Chicama and Indian summer monsoon rainfall-statistical relationships.*" Geofis.Int., 27, pp.37-59. (1988).
- [121]Parton, W. J. and Logan, J. A., " *A model for diurnal variation in soil and air temperature.*" Agric. Meteorol. 23, pp. 205-216. (1981).
- [122]Pearce, D.C. and Gold, L.W., " *Observations at ground temperature and heat flow at Ottawa.*" Canadian Journal geophysics., Research, 64 pp. 1293-1298.
- [123]Pramanik, S.K. and Jagannathan, P. " *Climatic changes in India.*" Indian J. Met. Geophy., 4 , 291-309. (1953).
- [124]Raman, H. and Sunilkumar, N. " *Multivariate modeling of water resources time series using Artificial Neural Networks*". Hydrol. Sci. J., 40 , 145-163. (1995).
- [125]Rao, K. N. and Krishnan, A., Proc. of symp. " *On floods and droughts*". pp.143, India, Met. Dept. (1958).
- [126]Rao, K. N. and Jagannathan, P. " *Climatic changes in India.*" Proc. Synop. Changes of climates. UNESCO, pp. 53-66. (1963).
- [127]Rao, Y.P. " *Southwest monsoon*". Met. Monograph, Synoptic Meteorology No. 1/1976, India Meteorological Department, New Delhi, pp. 366. (1976).
- [128]Reicosky, D.C., Winkelman, L.J., Barker, J.M. and Barker, D.G. " *Accuracy of hourly air temperatures calculated from daily minima and maxima*". Agric. For. Meteorol.46, pp. 193-209. (1989).

- [129]Richard, P. Lippmann. "*An introduction to computing with neural net.*" IEEE ADDP Magazine, pp. 4-22. (1987).
- [130]Ritchie, J.T. and Nesmith, D. S. "*Temperature and crop development in Modelling plant and soil system*" ASA Monograph No. 31, 5-29. (1991).
- [131]Rughooputh , S.D. "*SIDS and Climate Change Indicators.*" Faculty of Science, University of Mauritius, Mauritius sdr@uom.ac.mu.
- [132]Sadler,E.J. and Ronald,E.S., "*An Empirical model of diurnal temperature patterns.*" Agron.J.,89,pp. 542-548.(1997).
- [133]Sanders, C.G. "*Comments on the model for estimating the completion of rest for "Red Haven" and " Elberta" peach trees*". Hortic. Sci. 10, pp. 560-561. (1975).
- [134]Sankaranarayan, D. "*On the nature of frequency distribution of precipitation in India during monsoon months June to September.*" India Met. Dept. Sci. Notes, 5(55) , pp. 97-107. (1933).
- [135] Sarker, RP; Biswas, BC; Khambete, NN. *Probability Analysis of Short Period Rainfall in Dry Farming Tract in India*" Mausam. 33, 3, pp. 269-284. (1982.)
- [136]Seburk, B. and Geiger, H., "*Selection of distribution types for extremes of precipitation.*" WMONO 560, Operational Hydrology Report No. 15, pp. .8. (1981).
- [137]Sharma, H.C., Srivas, R.N. and Thomar, R.K.S. "*Agricultural planning on the basis of rainfall*". J. of Indian Water Resources Society, 7(2) , pp. 17-27. (1987).
- [138]Sharma, H.C., Teware, Y.D., Shrivass, R.N. and Chouksey, R.S. "*Analysis of rainfall data for agricultural planning*". J. Inst. Engrs., 68 , pp. 1-6. (1987).
- [139]Sharma, H.C.; Chauhan, H.S. and Ran, S. "*Probability Analysis of Rainfall for Crop Planning*". J. Agril. Engg., XVI(3) , (1979).

- [140]Shekh, A. M., Kulshrestha, M. S. Patel, H. R. and Parmar, R. S. *"Relationship of mean temperatures with screen temperatures"*. Mausam, 49 (1) , pp. 21-26. (1998).
- [141]Shukla, J. and D. A. Mooley. *"Empirical prediction of the summer monsoon rainfall over India"*. Mon. Wea. Rev., 115, pp. 695-703. (1987).
- [142]Shukla , J. and Paolino, A. *"The Southern Oscillation and Long-Range Forecasting of the Summer Monsoon Rainfall over India."* Monthly Weather Review,111,9 ,pp. 1830-1837 (1983).
- [143]Shukla, J. *"Effect of Arabian sea-surface temperature anomaly on Indian summer monsoon"*. A numerical experiment with the GFDL model. J. Atmos. Sci., 32, pp. 503-511. 1975.
- [144]Singh, N. *"Statistical distribution of extremes or rainfall at Colaba, Bombay"*. Mausam, 40(1) , pp. 85-90. (1989).
- [145]Singh, N., Krishna Kumar K. and Abraham. *"The EV₁ distribution for modeling extreme rain events at Bombay"*. Mausam, 41(3) , pp. 427-432. (1990).
- [146]Singh,O.P. and Joshi,S.P., *"Energy exchange between ocean and atmosphere relation to southwest monsoon over India."* Mausam,44,4,pp. 337-342.(1993).
- [147]Singh,O.P. and Joshi,S.P., and Sundari,G., *" Pressure fields over Indian seas and their relationships with Indian summer monsoon rainfall."* Mausam,45,2,pp.149-154.(1994)
- [148]Sitangshu Sarkar. *"Rainfall probability in the lower Bhamputra valley zone of Assam"*. J. Agrometeorology, 4(2), 171-176. (2002).
- [149]Solomatine, D. P., Velickov, S. and Wiist, J. C. *"Predicting water levels and currents in the north sea using chaos theory and neural networks"*. International Institute for Infrastructural, Hydraulic and Environmental Engineering, Delft, The Netherlands. www.ihe.nl/hi/sol.
- [150]Stanislaw, H.Z., IEEE *"Transactions on neural networks"*. Vol. 6, No. 1, January, showing Linear Programming Problems with Neural Networks , A comparative study. (1995).

- [151]Tenge-AJ., Kaihura-FBS., Lal R., Singh-BR. "*Diurnal Soil Temperature fluctuations for different erosion classes of an Oxisol at Mlingano, Tanzania*". Soil-and-Tillage Research. 49 (3), pp. 211-217; 27. (1998).
- [152]Thapliyal , V., "*Stochastic dynamic fast model for monsoon rainfall in Peninsular India*." Mausam, 33, pp. 399-404. (1982).
- [153]Thapliyal , V., "*Long-range forecasting of monsoon rainfall in India*." World Meteorological Org., Geneva,WMO/TD.87,pp.723-732.(1986).
- [154]Thom, H.C.S. "*A note of Gamma distribution*." Monthly Weather Review, 86(4), pp. 117-122. (1958).
- [155]Thom, H.C.S., "*A frequency distribution for precipitation*." Bull. Amer. Met. Soc., 32(10), pp. 397, (1951).
- [156]Thom, H.C.S., "*Some methods of climatological analysis*." WMO Tech. Note, No. 82, pp. 129-133. (1966).
- [157]Trentelman, H.L. "*Representation and Learning in feed forward neural networks*". CWI Quarterly 6, no.4, pp. 385-408. (1993).
- [158]Upadhyay, D. S., "*Least square method for linear combination of two extreme value distributions*." Proc. of workshop on Flood Estimation in Himalayan Region, Sept., Roorkee. (1986).
- [159]Upadhyay, D. S. and Kaur Surinder., "*Finite mixture of extreme value distribution for rainfall frequency analysis*." Mausam. 41, 4, pp. 627-630. (1990).
- [160]Van Wijk, W.R., "*Soil microclimate, its creation, observation and modification*." Agricultural Meteorology, Met. Mnogr., 6 (28), pp. 59-73. (1965).
- [161]Vande, W., "*Double Fourier Series as a Mapping Tool in Marine Cartography Analyses and Use*." Journal of Geographic Information and Decision Analysis, 4, (1), pp. 29-44. May (2005).

- [162]Vaziri, M. "*Predicting Caspian Sea surface water level by ANN and ARIMA models.*" J of Waterway, port, Coastal and ocean Enfgineering, July/ August. pp. 158-162. (1997).
- [163]Victor, U.S. and Sastry, P.S.N. "*Dry spell prob. By Markov chain model and its application to crop development stage.*". Mausam, 30 , pp. 479-484. (1979).
- [164]Walker, G.T., "*Correlations in seasonal variations of weather, VIII. A preliminary study of world weather I*". memories India Meteorology Department., 24. pp. 275-332.(1923).
- [165]Walter. A. "*Notes on the utilization of record s from third order climatological stations for agriculture purposes*". Agric. Meteorol. 4, pp. 137-143. 1967.
- [166]Wang,J.Y., " *A critique of the heat unit app.roach to plant response studies.*" Ecology,41,pp.785-790.(1960).
- [167]Werner, K., "*Neural Network*". Galgotia Publication,New Delhi, India, (1994).
- [168]Wiberg, B and Kjellberg, J. "*Artificial Neural Networks in Weather Prediction*". Project report June 5 (2001).
- [169]Widrow,B. and Hoff,M.E., " *Adaptive switching circuits.*" In 1960 IRE WESCON Convention Record, New York, IRE, pp.96-104.(1960).
- [170]Widrow, B. and Sterns, S.D., "*Adaptive Signal Processing*". Prentice Hall, New York, (1985).
- [171]Wilks, D. S., "*Conditioning Stochastic Daily Precipitation Models on Total Monthly Precipitation*". Water Resources Research, 25 (6) pp. 1429-1439. (1989).
- [172]Wylie, C. R. and Barrett, L. C. "*Advanced Engineering Mathematics.*" Mc Graw-Hill International Editions 5th Printing. (1989).

- [173]Zaldivar,J.M., Gutierrez,E., Galvan,I.M., Strozzi,F. and Tomasin,A.
"Forecasting high waters at Venice Lagoon using chaotic time
series analysis and non linear neural networks." J of
Hydroinformatics,2(1) ,pp.61-84.(2000).
- [174]Zhang, E. and Trimble, P. "Predicting effects of climate fluctuations for
water management by applying neural network". World
Resources Review. Vol. 8 (3) pp. 1-15. (1996).
- [175]Zurada, J. M., "Introduction to Artificial Neural System". Jaico Pub.
House. New Delhi, India. (1998).