

CURRICULAM VITAE

Krishna Chandra Tripathi, PhD
S/O Sri C B Tripathi and Smt Tara Tripathi
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SUMMARY SHEET

Career Objective: To apply the knowledge and experience acquired for development of innovative and novel ideas for the growth of an organization committed to professional ethics and nation building.

1. RESEARCH

- a) **Principal Investigator** of AICTE sponsored research project (**Completed**)
- b) **Research supervision**
 - i. One PhD thesis submitted (April 2018)
 - ii. One PhD thesis under progress
 - iii. Supervised 11 M.Tech. theses, degrees awarded
 - iv. Supervised about 30 B.Tech. projects
- c) **Publications and citations**
 - i. 18 papers in national/ international journals
 - ii. 35 papers in national/ international conferences/ seminars
 - iii. Citations: more than 100 international citations
- d) **Current Research Interests:** development of statistical models (Neural Network and others) for prediction and modeling of atmospheric & oceanic phenomena pertaining to Indian Ocean climatic systems

2. EXPERIENCE

- a) 7 Years of post PhD Teaching Experience
- b) Total Teaching and Research experience: 15 years
- c) Teaching experience in AGP 8000: 7 years
- d) Scientist 'C' at University of Allahabad during 2008-2009
- e) **Courses taught at B.Tech. and M.Tech. levels:** Discrete Mathematics, Automata theory, Neural Networks, Pattern Recognition, Digital Logic Design, Java Programming, Software Engineering, Object oriented systems, Artificial Intelligence, Parallel Algorithms

3. QUALIFICATION

- a) **UGC NET, 2012** qualified in Computer Science.
- b) **PhD (Regular and Full Time)** from **University of Allahabad** in March **2011** in the topic "Application of Artificial Neural Networks for investigating oceanic parameters".
- c) **JRF/ SRF/** in Sponsored Research Projects during PhD.

4. ADMINISTRATIVE RESPONSIBILITIES:

- a) Additional Examination Center Superintendent, IPEC, Oct, 2015- Oct, 2016
- b) M. Tech. Coordinator, CSE, IPEC, July 2015 present

5. EXTRA CURRICULAR:

- a) Won many awards in Chess and Badminton
- b) Novelist and poet

DETAILED INFORMATION

1 EMPLOYMENT AND EXPERIENCE

S.No.	Period	Designation & Organization
1.	September, 2014 – present	Associate Prof. , Department of Comp. Sc. and Engineering (CSE), Inderprastha Engineering College (IPEC) , Ghaziabad
2.	May, 2011 - August, 2014	Assistant Prof. with AGP 8000, CSE Dept., IPEC , Gzb
3.	July, 2010 – April, 2011	Senior Lecturer , MCA Dept., IPEC , Gzb
4.	April, 2010 - June, 2010	Senior Lecturer , CSE Dept., SP Memorial Institute of Technology (SPMIT), Allahabad
5.	August, 2009 - March, 2010	Lecturer , CSE Dept., SPMIT, Allahabad
6.	March, 2008 - July, 2009	Scientist 'C' , University of Allahabad , Allahabad.
7.	July, 2003 – February, 2008	Senior Research Fellow and Research Assistant , University of Allahabad , Allahabad

2 RESEARCH GRANTS

S.No	Title/ Area	Role	Funding Agency	Amount (Lac)	Period	Status	Academic Outcome
1.	Computer Vision/ Mathematical Modeling	Principal Investigator	AICTE	2.55	Oct 2013- Jan 2017	Completed	1 PhD, 5 M.Tech. awarded, 3 publications

3 PHD SUPERVISION

S. No	Name of Student (College)	Title	Year of Enrl	University	Status
1.	Neeta Verma (IPEC/ CSE)	Application of hybrid expert systems for investigation of atmospheric and oceanic parameters in the Indian ocean Domain,	2013	Invertis University, Bareilly	Thesis submitted
2.	Sandeep Raj, UGC NET qualified (IPEC/ IT)	Development of communication model for atmospheric sciences	2016	Uttarakhand Technical University, Dehradun	Ongoing (Enroll: 2016)
3.	Mr Bhupender	Polar Sea Ice Processes and their impact on ISMR	2018 prop	Invertis University,	Ongoing (Enroll:

	Singh (Jaipuriya College)		osed	Bareilly	2018)
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4 M.TECH. THESES AND PROJECT SUPERVISION (AKTU)

S.No	Name of Student	Title	Year of Degree
1.	Shraddha Srivastava	Intercomparison of nonlinear regression and Artificial Neural Networks	2012
2.	Chandni Saxena	Non linear Principal Components analysis of Indian Summer Monsoon Rainfall using Autoassociative Neural Networks	2014
3.	Shruti Govindan, M.Tech. thesis,	Effect of super ensembling on statistical forecasting of All India Rainfall using Antarctic Sea Ice Concentration	2015
4.	Ritu Sharma	Multiple Object Tracking	2015
5.	Akansha Shukla,	Effect of super ensembling on time series forecasting of sea surface temperature anomalies in the Indian ocean	2016
6.	Meenal Jain	Principal components based prediction model for the time series forecasting of All India Rainfall	2016
7.	Pragati Bharadwaj	Multiple Object Tracking using 2-D Wavelet Transform	2017
8.	Anuradha Dhumale,	Forecasting of All India Rainfall using Artificial Neural Network	2017
9.	Anjali Chauhan,	Effect of polar sea ice on regional Indian Rainfall using ANN	2017.
10.	Shivani Sharma	Optical Character Recognition	2017.
11.	Manpreet Kaur	A neural network model for time series forecasting of UP East Rainfall	2018

5 B.TECH. THESES AND PROJECT SUPERVISION

1. Supervised more than 30 B.Tech. projects

6 AWARDS AND ACHIEVEMENTS

1. **Convener, Technical Committee, 2nd International Conference “Modern Mathematical Methods and High Performance Computing in Science and Technology (M3HPCST-2018)”**, Sponsored by **AKTU** and Co-sponsored by **Springer** and **Jang Jeon Mathematical Society**, held at Inderprastha Engineering College, Ghaziabad, 4-6 January-2018.
2. **Session Chair**, “International Conference on Technology and Trust”, approved by AICTE, New Delhi and Dr. APJ Abdul Kalam Technological University, Lucknow, held during 28-29 December, 2017 at Greater Noida Institute of Technology, Greater Noida

3. **Member of the Domain Advisory Group** for the formation of syllabus of PGDM for the session **2017-19** at Jaipuria School of Business, Ghaziabad.
4. Received **special award for outstanding contribution in teaching and towards the cause of teachers** by honorable **central cabinet minister** Sri Mahesh Sharma ji, award conferred by "Rashtriya Shaikshik Mahasangh", Sept 2016
5. Reviewer for International Journal of Computational Vision and Robotics, InderscienceISSN print: 1752-9131
6. Keynote speaker at the **one Day National Seminar on “Soft Computing and Intelligent Systems” at GITARATTAN INTERNATIONAL BUSINESS SCHOOL (giBS) on 11th April, 2015**
7. Visited Trieste, Italy from 6th August to 18th August **2006** to attend the “Targeted Training Activity” at the “International Center for theoretical Physics” (ICTP), **Trieste, Italy on the invitation of ICTP**. Made the presentation for the “Indo-Nepal Group” in the Activity.
8. **Acknowledged & appreciated by ROTARY ALLAHABAD** for judging the models in the inter-institutional annual science models contest “**Sci-fest 2007**” held on 22nd September, **2007** at St. Joseph’s College, Allahabad.
9. **Awarded third best young scientist** at National Snow Science Workshop, organized by SASE & DRDO, Chandigarh, India, 11-12 January, **2008**.
10. **Acknowledged & appreciated by ROTARY ALLAHABAD** for judging the models in the inter-institutional annual science models contest “**Sci-fest 2008**” held on 19th October, **2008** at St. Joseph’s College, Allahabad.
11. Member of the **working group 1 of the last Tri-nation, India, Brazil and South Africa (IBSA) Ocean meeting in Goa, 4-8/May/2009** held to improve the seasonal predictability. It incorporated the expert systems methodology such as the **Artificial Neural Networks** proposed therein for the purpose.

7 FUTURE RESEARCH INTERESTS

It is desired to explore Hybrid expert systems involving coupling of Artificial Neural Networks (ANN), Genetic Algorithms and Fuzzy Logic for improved climate predictability. The need arises from the fact that GCMs are more time consuming and computationally costly to model such interactions and they have not still overpowered traditional regression models (linear and non-linear). Although statistical seasonal climate prediction involves modeling the historical relationships between the climate anomalies to be predicted and the underlying forcing mechanisms (SST anomalies), some statistical seasonal climate prediction systems are built upon observed atmospheric tele-connections. Further, Intelligent systems have been proved to be better than the traditional statistical models based on regression and Principal Components Analysis (PCA). Motivation for the application of intelligent systems for the modeling of tele-connections of Indian ocean phenomenon with Antarctic sea ice processes is felt. Artificial neural networks have been found to be successful in modeling such tele-connection. Development of more sophisticated computational intelligent systems can better utilize this relationship for the benefit of society of the society as a whole and Indian population in particular. Further Nonlinear PCA using Autoassociative Neural Networks would discover latent dimensions that cannot be discovered using linear PCA. These can be utilized for better prediction of Indian Summer Monsoon Rainfall.

8 EDUCATION:

S. No	Degree	Subject	Year	Univ/ Board	% marks
1.	UGC NET	CS	2012	NA	NA
2.	PhD	CS	2011	Univ of Alld (Full Time)	NA
3.	M.Sc.	CS	2003	Univ of Alld	68.6
4.	B.Sc.	Math, CS	2000	Univ of Alld	58.3
5.	12	Math stream	1996	ISCE	73

6.	10	Science	1994	ICSE	77.3
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9 PERSONAL DETAILS:

Father's name: Sri Chandra Bhushan Tripathi

Mother's name- Smt Tara Tripathi

Permanent Address- D2, Ashok Vihar Colony, Ashok Nagar, Allahabad, India -211001

Local Address- Flat number 115, Spertech Residency, Sector 5, Vaishali, Ghaziabad- India-201010

DOB: 17/ 03/ 1979, **PAN No.** GRPT0650J, **Passport No.:** F0160294

10 REFERENCES:

1. Prof. Avinash Chandra Pandey, K Banerjee Center of Atmospheric and Ocean Studies, University of Allahabad, Allahabad, prof.avinashcpandey@gmail.com, +919415215512
2. Prof. P N Hrisheeksha, Director, Chandigarh Group of Colleges, Chandigarh, hreshikesh1007@aol.in , mob: 8588983218
3. Prof. O P Singhal, formerly, HOD, CSE Dept, Inderprastha Engineering College, Ghaziabad, singhal.om@gmail.com, 9971929575
4. Dr. Shailendra Rai, Department of Atmospheric Science, University of Allahabad, raishail77@gmail.com, +919415649617

11 DECLARATION:

Declared that above information is true to the best of my knowledge and belief and nothing material has been concealed.

(K C Tripathi)

List of Publications

(a) Papers published/ in National/ International Journals/ book chapters

1. (SCI) **K C Tripathi**, I M L Das and A K Sahai, *Predictability of sea surface temperature anomalies in the Indian Ocean using Artificial Neural Networks*, Indian Journal of Marine Sciences, **2006**, vol. 35, 210-220 (ISSN: 0379-5136, impact factor: 0.563)
2. (SCI) **K. C. Tripathi**, S. Rai, A. C. Pandey and I. M. L. Das, *Southern Indian Ocean SST indices as early predictors of Indian summer monsoon*, Indian Journal of Marine Sciences, **2008**, vol. 37(1), 70-76 (ISSN: 0379-5136, impact factor: 0.563)
3. (SCI) **K. C. Tripathi** and I. M. L. Das, *Simulation of Antarctica sea ice area with artificial neural network*, Indian Journal of Marine Sciences, **2008**, vol. 37(1), 77-85 (ISSN: 0379-5136, impact factor: 0.563).
4. (SCI) S. Rai, A. C. Pandey, **K. C. Tripathi** and S. Dwivedi, *Predictive Skill of DEMETER models for wind prediction near Madagascar*, Indian Journal of Marine Sciences, **2008**, vol. 37(1), 62-69 (ISSN: 0379-5136, impact factor: 0.563).
5. (Scopus) Shikha Rai, A. K. Rai, I. M. L. Das and **K C Tripathi**, *Implementation of statistical methods on LIBS data for classification of residues of energetic materials (nitro compounds)*, Adv. Mat. Lett. **2011**, 2(1), 32-37 (ISSN: 0976-3961, impact factor: 1.46)
6. (SCI) R. P. Shukla, **K. C. Tripathi**, A. C. Pandey and I. M. L. Das, *Prediction of Indian summer monsoon rainfall using Niño Indices: a neural network approach*, Atmospheric Research, DOI information: 10.1016/j.atmosres.2011.06.013, Volume 102, Issues 1–2, October 2011, Pages 99–109 (ISSN: 0169-8095, impact factor: 3.377)
7. (Google Scholar) Shraddha Srivastava and **Krishna C Tripathi**, *Artificial Neural Network and Non-Linear Regression: A Comparative Study*, International Journal of Scientific and Research Publications, Volume 2, Issue 12, December **2012**, 1-5 (ISSN: 2250-3153, impact factor: 0.69)
8. (Scopus) **K C Tripathi**, Rashi Agarwal and P N Hrisheekesha *Global Prediction algorithms and predictability of anomalous points in a time series*, International Journal of Computers and Technology, **2013** (10, No 9) 1983-1989 (ISSN: 2277-306, impact factor: 1.32)
9. (Google Scholar) Abhishek Saxena, Neeta Verma and **K C Tripathi**, *A review study of Weather Forecasting using Artificial Neural Network Approach*, International Journal of Engineering Research & Technology (10, issue 11), November 2013, ISSN: 2278-018

10. **(Peer Reviewed)** Pranshu Saxena, **K C Tripathi** and P N Hrisheekesha, *Automated Nuclear Architecture of Each Biased Cell Nucleolus from Histological Imagery by Enhanced Contour Algorithm*, IFRSA's International Journal Of Computing , Vol 4, issue 2, April **2014**, ISSN No. 2230:9039
11. **(Google Scholar)** Neeta Verma, YDS Arya and **K C Tripathi**, *Artificial Neural Networks for predictability of All India Rainfall using historical time series*, International Journal of Science, Technology and Management (4) pp 808-814, **March 2015**, ISSN (online): 2394-1537
12. **(SCI)** A. K. Mittal, U. P. Singh, A. Tiwari, S. Dwivedi, M. K. Joshi, **K. C. Tripathi**, *Short-term predictions by statistical methods in regions of varying dynamical error growth in a chaotic system*, Meteorol Atmos Phys DOI 10.1007/s00703-015-0375-3, Springer-Verlag, **April, 2015**, **impact factor 1.172**, Print ISSN: 0177-7971, Online ISSN: 1436-5065.
13. **(Peer Reviewed)** Meenal Jain and **K C Tripathi**, *AutoAssociative Neural Networks for Nonlinear Principal Components Analysis of Sea Surface Temperature Anomalies in Indian Ocean*, Advances in Computer Science and Information Technology, Vol 2, **April- June, 2015**, 58-60, Print ISSN:2393-9907, Online ISSN 2393-9915.
14. **(ACM, Google Scholar)** Shruti Govindan and **K C Tripathi**, *Superensembling of Artificial Neural Network Models for Investigating The Effect of Polar Sea Ice on Sea Surface Temperature in Indian Ocean Region*, International Journal of, Engineering Science and Computing, 7, **2017**, 5947-5952.
15. **(Scopus)** Neeta Verma, YDS Arya and **K C Tripathi** *Skill scores verification for All India Rainfall data using Artificial Neural Network*, International Journal of Soft Computing, **2017**, 12, 13-19, ISSN: 1816-9505.

(b) Papers published as chapters in refereed book series'

1. A.C. Pandey, I.M.L. Das, Shailendra Rai, A.P. Mishra, V.K. Pandey, Suneet Dwivedi, Amitabh Mitra, **K. C. Tripathi** and B.P. Kirtman, *Mathematical Modelling of Atmosphere and Ocean Processes around Antarctic*, **Review Book** edited by NCAOR, Goa, Headland Sada, Vasco-da-Gama, **2007**, chapter 4 (pp 1-31).
2. M. K. Joshi, **Krishna C Tripathi**, Avinash C Pandey and I. M. L. Das, *"Intraseasonal variability of rainfall in India on regional basis"* in Challenges and Opportunities in Agrometeorology, edited by Attri, S.D., Rathore, L.S., Sivakumar, M.V.K. and Dash, S.K., Springer-Verlag Berlin Heidelberg, Doi: 10.1007/978-3-642-19369-6_9, **2011**, 73-82.
3. Ravi P Shukla, **Krishna C Tripathi**, Sandipan Mukherjee, Avinash C Pandey and I. M. L. Das, *"Improved seasonal predictability of DEMETER models for Central Indian summer Monsoon Rainfall using weighted multi model ensemble"* in Challenges and Opportunities in Agrometeorology, edited by

Attri, S.D., Rathore, L.S., Sivakumar, M.V.K. and Dash, S.K., Springer-Verlag Berlin Heidelberg, Doi: 10.1007/978-3-642-19369-6_9, **2011**, 123-138.

(c) Papers presented in National/ International Conferences/ published in Proceedings/ Abstracts

1. **K.C. Tripathi**, I.M.L. Das and A.K. Mittal, *Prediction of Sea Surface Temperature in the Indian Ocean Region using Artificial Neural Networks*, Proceedings of the “First Prof. R. Ananthkrishnan Memorial Conference on Atmospheric Sciences, Climate Change and Environmental Studies”, organized by Indian Institute of Tropical Meteorology, Pune, pp 91-92, **2005**.
2. **K C Tripathi** and I.M.L. Das, *Simulation of Antarctica sea ice variability with Artificial Neural Network*, “Seminar on Antarctic Science: Indian Contributions in Global Perspectives”, organized by National Center of Antarctic and Ocean Research, Goa, 25-26 May, **2006**.
3. Rai, S., S. Dwivedi, **K. C. Tripathi**, R. P. Shukla, S. Kaushik and A. Shreshtha, *Predictability Issues in Tropical Regions-a case study for India and Nepal*, “Targetted Training Activity on Seasonal Predictability in Tropical Regions: Research and Applications”, Miramare, **Trieste, Italy** 7-18 August **2006**.
4. S. Rai, S. Dwivedi, **K. C. Tripathi**, A. C. Pandey and I. M. L. Das, *Predictive skill of DEMETER models for Indian summer monsoon*, “Indian Meteorological Society (IMS), Pune Chapter (TROPMET-2006)”, organized by Indian Meteorological Society (IMS), Indian Institute of Tropical Meteorology, Pune, **2006**, pp d11-d13.
5. **K. C. Tripathi**, I. M. L. Das, S. Rai and A. C. Pandey, *DEMETER Models: Predictability studies for meridional wind velocity with Multimodel Ensembling*, “TROPMET-2006”, “Indian Meteorological Society (IMS), Pune Chapter (TROPMET-2006)”, organized by Indian Meteorological Society (IMS), Indian Institute of Tropical Meteorology, Pune, **2006**, pp d14-d15.
6. **K. C. Tripathi**, S. Rai, A. C. Pandey and I. M. L. Das, *Southern Indian Ocean SST indices as early predictors of Indian summer monsoon*, “National Seminar on ”India – Scientific Endeavours in Antarctica and Southern Ocean”, organized by National Center for Antarctica and Ocean Research, Goa, **2007**.
7. **K C Tripathi** and I.M.L. Das, *Antarctic sea ice concentration simulated by artificial neural network*, Proceedings of “**International Workshop** on Snow, Ice, Glacier and Avalanches”, IIT Bombay, India, Annexure, 07-09 January, **2008**.
8. **K C Tripathi** and I.M.L. Das, *Antarctic sea ice concentration as a prospective predictor for Indian summer monsoon rainfall (awarded paper)*, “Proceedings of National Snow Science Workshop”, organized by **SASE (DRDO)**, Chandigarh, India, pp 229-232, 11-12 January, **2008**.

9. I M L Das and **K C Tripathi**, *On Possible Association Between Antarctic Sea Ice Concentration and All India Rainfall*, Abstracts of “SCAR/ IASC IPY Open Science Conference, **St. Petersburg, Russia**”, 8-11 July, **2008**.
10. Shikha Rai, A. K. Rai, I. M. L. Das and **K.C. Tripathi**, *Statistical modeling for signature of Nitro compounds in laser induced plasma*, “Proceedings of 5th **International Conference** on Laser-Induced Breakdown Spectroscopy (LIBS)”, Berlin, Adlershof, Germany, 22 – 26 September **2008** (in press).
11. Shikha Rai, A K Rai, I M L Das and **K C Tripathi**, *Discrimination of nitro compounds with LIBS by employing statistical analysis*, “First Rashtriya Yuva Vaigyanik Sammelan”, organized by Vigyan Bharati, Haryana, in association with the National Institute of Technology (NIT) Kurukshetra, Kurukshetra, 28-30 November, **2008**.
12. Manish K Joshi, **K C Tripathi**, A.C. Pandey and I.M.L. Das, *Spectral analysis of precipitation in southern Indian region*, “**International Conference** on Progress in Weather and Climate Modeling over the Indian Region”, organized by the National Centre for Medium Range Weather Forecasting (NCMRWF), Noida, during 9-12 December, **2008**, Extended Abstract, pp 223.
13. Ravi P Shukla, A C Pandey, **K C Tripathi**, Sandipan Mukherjee and I M L Das, *Predictability skill of the SNU Tier-1 seasonal forecast system for the Indian Summer Monsoon Rainfall*, “National Symposium on Advances in Remote Sensing Technology and Applications with Special Emphasis on Microwave Remote Sensing and Annual Convention of Indian Society of Remote Sensing (ISRS)”, organised by SAC (ISRO) and Nirma University, Ahmedabad, Ahmedabad, Gujarat, December 18-20, **2008**.
14. Nisha Baranwal, **K. C. Tripathi**, A C Pandey and I M L Das, *Heat Transport through Indonesian throughflow via Lombok, Savu and Timor Straits by Different wind stress forcing*, “National Symposium on Advances in Remote Sensing Technology and Applications with Special Emphasis on Microwave Remote Sensing and Annual Convention of Indian Society of Remote Sensing (ISRS)”, organised by SAC (ISRO) and Nirma University, Ahmedabad, Ahmedabad, Gujarat, December 18-20, **2008**.
15. A C Pandey, Sandipan Mukherjee, R P Shukla, **K C Tripathi** and I M L Das, *Seasonal Prediction skill analysis of surface variables of DEMETER models over western tropical Indian Ocean*, “National Symposium on Advances in Remote Sensing Technology and Applications with Special Emphasis on Microwave Remote Sensing and Annual Convention of Indian Society of Remote Sensing (ISRS)”, organised by SAC (ISRO) and Nirma University, Ahmedabad, Ahmedabad, Gujarat, December 18-20, **2008**.
16. Manish K Joshi, Avinash C Pandey, **K C Tripathi** and I M L Das, *Estimation of Precipitation in the southern Indian region using DWS-ETA model*, “National Symposium on Advances in Remote Sensing Technology and Applications with Special Emphasis on Microwave Remote Sensing and Annual

- Convention of Indian Society of Remote Sensing (ISRS)”, organised by SAC (ISRO) and Nirma University, Ahmedabad, Gujarat, December 18-20, **2008**.
17. Shikha Rai, A. K. Rai*, I. M. L. Das, and **K.C. Tripathi**, *Detection of traces of Nitrocompunds with LIBS using PCA*, “National symposium on Advances in Laser and Spectroscopy”, organised at Sagar University, M. P, February 27-28, **2009**.
 18. Shikha Rai, A. K. Rai, I. M. L. Das, and **K.C. Tripathi**, *Statistical analysis of LIBS spectra of nitro compounds*, “Eighth DAE- BRNS National Laser Symposium (NLS-08)”, organised at Laser Science and Technology Centre (LASTEC), Delhi, January 7 - 10, P10-003, **2009**.
 19. Shikha Rai¹, A. K. Rai¹, I. M. L. Das, and **K.C. Tripathi**, *Classification of traces of Nitro compounds with LIBS using PCA (awarded paper)*, “Meghnad Saha Memorial Symposium on Emerging Trends in Laser Spectroscopy and Applications (MMSETLSA-2009)”, Allahabad, India, organized by Department of Physics, University of Allahabad, Allahabad, 23-25 March, **2009**.
 20. Manish K Joshi, **K C Tripathi**, A.C. Pandey and I.M.L. Das, *Intra seasonal variability of rainfall in India on regional basis*, “**International conference** on “Challenges and Opportunities in Agrometeorology (INTROMET)”, organized by Indian Meteorological Society, New Delhi, India, 23-25 February, **2009**
 21. Ravi P Shukla, **K. C .Tripathi**, Sandipan Mukherjee, A. C. Pandey and I. M. L. Das, *Improved Seasonal Predictability Skill of the DEMETER Models for Central Indian Summer Monsoon Rainfall*, “**International conference** on Challenges and Opportunities in Agrometeorology (INTROMET)”, organized by Indian Meteorological Society, New Delhi, India, 23-25 February, **2009**
 22. I M L Das and **K C Tripathi**, *Tele-connection between Antarctic Sea Ice Concentration and All India Rainfall*, “**International Symposium** On Snow and Avalanches”, Organized by INTERNATIONAL GLACIOLOGICAL SOCIETY, co-sponsored by Snow and Avalanche Study Establishment (SASE), Manali India, 5 - 10 April, **2009**.
 23. **K C Tripathi** and I. M. L, Das, *Antarctic sea ice concentration and its relationship with niño indices*, “**International conference** on Polar Science and Technology”, organized by National Environmental Science Academy, New Delhi, New Delhi, India, 28-30 August, 2009.
 24. **K C Tripathi**, M K Joshi, I. M. L, Das and A C Pandey, *Simulation of heat fluxes in the southern hemisphere region with mitgcm*, “**International conference** on Polar Science and Technology”, organized by National Environmental Science Academy, New Delhi, New Delhi, India, 28-30 August, 2009.
 25. M K Joshi, **K C Tripathi** , A C Pandey and I. M. L, Das, *Spectral analysis of climatological mean of rainfall over the last five decades*, “**International conference** on Polar Science and Technology”,

- organized by National Environmental Science Academy, New Delhi, New Delhi, India, 28-30 August, 2009.
26. M K Joshi, K C Tripathi , A C Pandey and I. M. L, Das, *Simulation of Antarctic sea ice concentration over the last three decades using MITgcm model*, “**International conference** on Polar Science and Technology”, organized by National Environmental Science Academy, New Delhi, New Delhi, India, 28-30 August, 2009.
 27. R P Shukla, **K C Tripathi** , A C Pandey and I. M. L, Das, *Prediction of Indian Summer Monsoon Rainfall using Nino indices*, “**International conference** on Polar Science and Technology”, organized by National Environmental Science Academy, New Delhi, New Delhi, India, 28-30 August, 2009.
 28. Archana Rai, M K Joshi, **K C Tripathi** , A C Pandey and I. M. L, Das, *Intraseasonal and interannual variations in the zonal and meridional wind components in the cryosphere region using MITgcm*, “**International conference** on Polar Science and Technology”, organized by National Environmental Science Academy, New Delhi, New Delhi, India, 28-30 August, 2009.
 29. R. P. Shukla, **K C Tripathi**, S. Mukherjee, A C Pandey and I M L Das, Prediction of Indian summer monsoon rainfall using nino indices: a neural network approach, “**International workshop** on high resolution climate model”, International Center for Theoretical Physics (ICTP), Miramare, **Trieste, Italy** 27 July-14 August, 2009.
 30. Saxena Chandni, **K C Tripathi** and P. N. Hrisheeksha, *Autoassociative Neural Network For Nonlinear Principal Component Analysis Of Some Atmospheric Parameters*, accepted for publication in proceedings for **IEEE** International Conference on Research and Development Prospects on Engineering and Technology, EGS Pillay Engineering College, Nagapattinam, 29-30 March, **2013**
 31. Neeta Verma, YDS Arya and **K C Tripathi**, Artificial Neural Networks for predictability of All India Rainfall using historical time series, in proceedings of International Conference on Recent Trends in Engineering Science and Management, Jawaharlal Nehru University (JNU, Convention Center), New Delhi, **15th March, 2015**
 32. Sakshi Srivastava, Shrayansh Jain, Prachi Sharma, **K.C.Tripathi**, Dynamical aspects of prediction by Artificial Neural Network when predicting in chaotic regime, “Global Information and Business Strategies, 6th Comit-2015”, international conference on management and information technology, Gitarattan Institute of Business Studies, 24-25 **April-2015**.
 33. Meenal Jain and **K C Tripathi**, AutoAssociative Neural Networks for Nonlinear Principal Components Analysis of Sea Surface Temperature Anomalies in Indian Ocean, 58-60, Proceedings of the 9th International Conference on “Advances in Soft Computing, E-Learning, Information and Communication Technolog”, organized by “Krishi Sanskriti”, **20th June, 2015, at Jawaharlal Nehru University, New Delhi**

34. Anjali Chauhan and **K C Tripathi**, A Neural Network Model to investigate the effect of Antarctic Sea Ice Concentration on All India Rainfall, Proceedings of the “International Conference on Technology and Trust”, approved by AICTE, New Delhi and Dr. APJ Abdul Kalam Technological University, Lucknow, held during 28-29 December, 2017 at Greater Noida Institute of Technology, Greater Noida, pp- 113-117, **ISBN: 978-93-8357-527-5, December 2017**
35. Anuradha Dhumale and **K C Tripathi**, Forecasting of All India Rainfall Using Artificial Neural Network, Proceedings of the “International Conference on Technology and Trust”, approved by AICTE, New Delhi and Dr. APJ Abdul Kalam Technological University, Lucknow, held during 28-29 December, 2017 at Greater Noida Institute of Technology, Greater Noida, pp- 118-123, **ISBN: 978-93-8357-527-5, December 2017**
36. **(Accepted)** Manpreet Kaur and K C Tripathi, A neural network model for time series forecasting of UP East Rainfall, **IEEE International Conference on Advances in Computing, Communication, Control and Networking (ICACCCN- 2018)** to be held during 12-13 October, 2018, Department of IT and CSE, Galgotias College of Engineering and Technology, Greater NOIDA, India, **October 2018, ISBN: 978-1-5386-4119-4/18/\$31.00 ©2018 IEEE**

(d) Workshops and Conferences Attended

1. 2 Days National worksop “Akhil Bhartiya Media Kaaryashala”, jointly organized by **Indian Institute of Mass Communication (IIMS) and Akhil Bhartiya Rashtriya Shikshak Mahasangh (ABRSM)**, held at **Indian Institute of Mass Communication (IIMS), Jawaharlal Nehru University (JNU), New Delhi, 5-6 May, 2018.**
2. **Session Chair**, “International Conference on Technology and Trust”, approved by AICTE, New Delhi and Dr. APJ Abdul Kalam Technological University, Lucknow, held during 28-29 December, 2017 at Greater Noida Institute of Technology, Greater Noida
3. **Keynote speaker** at the **one Day National Seminar on “Soft Computing and Intelligent Systems” at GITARATTAN INTERNATIONAL BUSINESS SCHOOL (giBS) on 11th April, 2015**
4. National workshop on advanced ocean state forecast & ocean modeling, MOG/SAC/ISRO, Ahmedabad, India, December 20-21, **2004.**
5. First Prof. R. Ananthkrishnan Memorial Conference on Atmospheric Sciences, Climate Change and Environmental Studies, Indian Institute of Tropical Meteorology, Pune, India, January 18 – 19, **2005.**

6. Seminar on “Antarctic Science: Indian Contributions in Global Perspectives”, National Center of Antarctic and Ocean Research, Goa, India, May 25 - 26, **2006**.
7. Targetted Training Activity, Seasonal Predictability in Tropical Regions: Research and Applications. Miramare, Trieste, Italy, August 7-18, **2006**.
8. TROPMET-2006, Indian Meteorological Society (IMS), Pune Chapter, Indian Institute of Tropical Meteorology, Pune, November 21 – 23, **2006**.
9. Indo – Polish Workshop on Liquid Crystals, Physics department, University of Allahabad, Allahabad, December 12, **2007**.
10. International Workshop on Snow, Ice, Glacier and Avalanches, IIT Bombay, India, Annexure , 07-09 January, **2008**.
11. National Snow Science Workshop, Snow & Avalanche Study Establishment (organized by Defence Research & Development Organisation), Chandigarh, India. Awarded for giving the **third best paper in oral presentations category**, 11-12 January, **2008**.
12. National Symposium on Advances in Remote Sensing Technology with Special Emphasis on Microwave Remote Sensing, Nirma University (organized by Indian Society of Remote Sensing, ISRS), Ahmedabad, 18-20 December, **2008**.
13. International conference on “*Challenges and Opportunities in Agrometeorology (INTROMET)*”, organized by Indian Meteorological Society, New Delhi, India, 23-25 February, **2009**
14. Artificial Neural Networks for predictability of All India Rainfall using historical time series, Neeta Verma, YDS Arya and **K C Tripathi** in proceedings of International Conference on Recent Trends in Engineering Science and Management, Jawaharlal Nehru University (JNU, Convention Center), New Delhi, **15th March, 2015**