

## PUBLICATIONS: Research Papers in Journals / Conferences / Book Chapters

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**Total: 105** : Journals = 51 [SCI: 24 + Scopus: 22 + Refereed: 05]  
: Conferences = 50 [International: 33 + National: 17]  
: Book Chapters = 04 [International: 03 + National: 01]

### A. Publications in SCI Journals: Total: 24

1. Sonam Agrawal, Ashutosh Kumar Tripathi, Rajan Dev Gupta, *Development and implementation of automatic metadata generation framework for SDI using OSS: a case study of Indian NSDI*, Arabian Journal of Geosciences (2022), 15:408, <https://doi.org/10.1007/s12517-022-09635-w>, Feb 2022.
2. Omar Sarif and Rajan Dev Gupta, 2021, *Modelling of trajectories in urban sprawl types and their dynamics (1988-2018): A case study of Prayagraj city (India)*, Arabian Journal of Geoscience, (2021) 14:1347, DOI: 10.1007/s12517-021-07573-7, July 2021.
3. Sahu, R. and Gupta, R.D., 2020, *Snow cover area analysis and its relation with climate variability in Chandra basin, Western Himalaya, during 2001–2017 using MODIS and ERA5 data*, Environmental Monitoring and Assessment, Vol. 192, Issue 8, Article No. 489 (2020), DOI: 10.1007/s10661-020-08442-8, July 2020.
4. Agrawal, S. and Gupta, R.D., 2020, *Development of SOA-based WebGIS Framework for Education Sector*, Arabian Journal of Geoscience, Vol. 13, Issue 13, Article No. 563 (2020), DOI: 10.1007/s12517-020-05490-9, June 2020.
5. Sahu, R. and Gupta, R.D., 2020, *Glacier Mapping and Change Analysis in Chandra Basin, Western Himalaya, India during 1971-2016*, International Journal of Remote Sensing, DOI: 10.1080/01431161.2020.1752412, Vol. 41, No. 18, p: 6914-6945, June 2020.
6. Tripathi, A.K., Agrawal, S. and Gupta, R.D., 2020, *Cloud Enabled SDI Architecture: A Review*, Earth Science Informatics, Vol. 13, No. 2, p: 211-231, DOI: 10.1007/s12145-020-00446-9, June 2020.
7. Sahu, R. and Gupta, R.D., 2019, *Spatiotemporal Variation in Surface Velocity in Chandra Basin Glacier between 1999 and 2017 using Landsat-7 and Landsat-8 Imagery*, Geocarto International, DOI: 10.1080/10106049.2019.1659423.

8. Ali Akbar Sabziparvar, Seyed Hossein Mir Mousavi, Mostafa Karampour, Mehdi Doostkamian, Esmail Haghighi, Iman Roustae, Haraldur Olafsson, Md Omar Sarif, **Rajan Dev Gupta**, Md Moniruzzaman, Khairul Hasan, and Ali Ghasemi, 2019, *Harmonic Analysis of the Spatiotemporal Pattern of Thunderstorms in Iran (1961–2010)*, *Advances in Meteorology* Vol. 2019 (34), p: 1-14, ISSN: 1687-9309 (Print), DOI: 10.1155/2019/1612503.
9. Iman Roustae, Md Omar Sarif, **Rajan Dev Gupta**, Haraldur Olafsson, Manjula Ranagalage, Yuji Murayam, Hao Zhang, and Terence Darlington Mushore, 2018, *Spatiotemporal Analysis of Land Use/Land Cover and Its Effects on Surface Urban Heat Island Using Landsat Data: A Case Study of Metropolitan City Tehran (1988–2018)*, *Sustainability*, Vol. 10 (12), p:1-25, ISSN: 2071-1050, DOI: 10.3390/su10124433.
10. Agrawal, Sonam and **Gupta, R.D.**, 2017, *WebGIS and its Architecture: A Review*, *Arabian Journal of Geosciences*, Print ISSN: 1866-7511, Online ISSN: 1866-7538, DOI: <https://doi.org/10.1007/s12517>.
11. Singh, M. K., **Gupta, R.D.**, Snehmani, Kumar, S. and Ganju, A., 2016, *Assessment of Freely Available CartoDEM V1 and V1.1RI with Respect to High Resolution Aerial Photogrammetric DEM in High Mountains*. *Geocarto International*, Vol. 31(9): 943-955, DOI:10.1080/10106049.2015.1094524.
12. Singh, M. K., **Gupta, R.D.**, Snehmani, Bhardwaj, A. and Ganju, A., 2016, *Effect of Sensor Modelling Methods on Computation of 3-D Coordinates from Cartosat-1 Stereo Data*. *Geocarto International*, Vol. 31(5): 506-526, DOI:10.1080/10106049.2015.1059900.
13. Singh, M. K., **Gupta, R.D.**, Bhardwaj, A. and Ganju, A., 2016, *Scenario-Based Validation of Moderate Resolution DEMs Freely Available for Complex Himalayan Terrain*. *Pure and Applied Geophysics*, Vol. 173 (2): 463-485, DOI: 10.1007/s00024-015-1119-5.
14. Singh, D., **Gupta, R.D.** and Jain, S.K., 2015, *Assessment of Impact of Climate Change on Water Resources in A Hilly River Basin*. *Arabian Journal of Geosciences*. Vol. 8 (12): 10625–10646, DOI: 10.1007/s12517-015-1985-2.
15. Bhardwaj, A., Singh, M. K., Joshi, P. K., Singh, S., Sam, L., **Gupta, R. D.** and Kumar, R., 2015, *A Lake Detection Algorithm (LDA) using Landsat 8 Data: A Comparative Approach in Glacial Environment*. *International Journal of Applied Earth Observation and Geoinformation*, Vol. 38: 150-163. DOI:10.1016/j.jag.2015.01.004.
16. Singh, D., Jain, S.K. and **Gupta, R.D.**, 2015, *Statistical Downscaling and Projection of Future Temperature and Precipitation Change in Middle Catchment of Sutlej River Basin, India*. *Journal of Earth System Science*, Vol. 124 (4): 843-860. ISSN: 0253-4126.
17. Mritunjay Kumar Singh, Snehmani, **R.D. Gupta**, Anshuman Bhardwaj, P.K. Joshi and Ashwagosha Ganju, 2015, *High resolution DEM Generation for Complex Snow covered Indian Himalayan Region using ADS80 Aerial Push-broom Camera: a First Time Attempt*, *Arabian Journal of Geosciences*, Vol. 8 (3): 1403-1414, DOI 10.1007/s12517-014-1299-9.

18. Singh, D., Jain, S.K. and **Gupta, R.D.**, 2015, *Trend in observed and projected maximum and minimum temperature over N-W Himalayan basin*. Journal of Mountain Sciences, Vol. 12 (2): 417-433. DOI:10.1007/s11629-013-2889-9.
19. Singh, D., **Gupta, R.D.** and Jain, S.K., 2015, *Study of Daily Extreme Temperature Indices over Sutlej Basin, N-W Himalayan Region, India*. Global NEST, Vol.17 (2): 301-311. ISSN: 1790-7632.
20. Singh, D., **Gupta, R.D.**, and Jain, S.K., 2015, *Statistical Analysis of Long Term Spatial and Temporal Trends of Temperature Parameters over Sutlej River Basin, India*. Journal of Earth System Science, Vol. 124 (1): 17-35. DOI: 10.1007/s12040-014-0530-0.
21. Snehmani, A. Bhardwaj, Mritunjay Kumar Singh, **R.D. Gupta**, P.K. Joshi A. and Ganju, 2015, *Modeling the Hypsometric Seasonal Snow Cover using Meteorological Parameters*, Journal of Spatial Science, Vol. 60 (1): 51-64, DOI: 10.1080/14498596.2014.943310.
22. Snehmani, Mritunjay Kumar Singh, **R.D. Gupta**, Anshuman Bhardwaj and Pawan Kumar Joshi, 2015, *Remote Sensing of Mountain Snow using Active Microwave Sensors: A Review*, Geocarto International, Vol. 30(1): 1-27, DOI: 10.1080/10106049.2014.883434.
23. A. Bhardwaj, P.K. Joshi, Snehmani, Mritunjay Kumar Singh, L. Sam and **R.D. Gupta**, 2014, *Mapping Debris Covered Glaciers and Identifying Factors Affecting the Accuracy*. Cold Regions Science and Technology, Vol. 107-107: 161-174, DOI: 10.1016/j.coldregions.2014.07.006.
24. Mufeed Sharholly, Kafeel Ahmad, R.C. Vaishya and **R.D. Gupta**, 2007, *Municipal Solid Waste Characteristics and Management in Allahabad, India*, Waste Management, Vol. 27, Issue 4, pp: 490-496, DOI: 10.1016/j.wasman.2006.03.001.

**B. Publications in Scopus/ Peer Reviewed Standard Journals: Total: 22**

1. Omar Sarif and Rajan Dev Gupta, 2021, *Spatiotemporal mapping of land use/land cover dynamics using remote sensing and GIS approach: A case study of Prayagraj city, India (1988–2018)*, Environment, Development and Sustainability, DOI: 10.1007/s10668-021-01475-0, May 2021.
2. Tripathi, A. K. and Agrawal, S. and Gupta, R. D., 2021, *Comparison of GIS-based AHP and fuzzy AHP methods for hospital site selection: a case study for Prayagraj city, India*, GeoJournal, DOI: <https://doi.org/10.1007/s10708-021-10445-y>, May 2021.
3. Omar Sarif and Rajan Dev Gupta, 2021, *Comparative evaluation between Shannon's entropy and spatial metrics in exploring the spatiotemporal dynamics of urban morphology: A case study of Prayagraj city, India (1988-2018)*, Spatial Information Research, DOI: 10.1007/s41324-021-00406-5, May 2021.

4. Chandan Pathak, Subhanshu Chandra, Gaurav Maurya, Aditya Rathore, Md. Omar Sarif & Rajan Dev Gupta, 2020, *The Effects of Land Indices on Thermal State in Surface Urban Heat Island Formation: A Case Study on Agra City in India Using Remote Sensing Data (1992–2019)*, Earth Systems and Environment, Vol. 5, p: 135–154 (2021).
5. Tripathi, A. K. and Agrawal, S. and Gupta, R. D., 2019, *WPS Enabled SDI: An Open Source Approach to Provide Geoprocessing in Web Environment*, ISPRS International Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol. IV-5/W2, p:119-126, DOI: 10.5194/isprs-annals-IV-5-W2-119-2019.
6. Sarif, M. O. and Gupta, R. D., 2019, *Land Surface Temperature Profiling and its Relationships with Land Indices: A Case Study on Lucknow City*, ISPRS International Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol. IV-5/W2, p:89-96, DOI: 10.5194/isprs-annals-IV-5-W2-89-2019.
7. Sahu, R. and Gupta, R. D., 2019, *Surface Velocity Dynamics of Samudra Tapu Glacier, India from 2013 to 2017 using Landsat-8 Data*, ISPRS International Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol. IV-5/W2, p:75-81, DOI: 10.5194/isprs-annals-IV-5-W2-75-2019.
8. I. Rousta, M. Doostkamian, H. Olafsson, H. R. Ghafarian-Malamiri, H. Zhang, A. M. Taherian, M. O. Sarif, R. D. Gupta, and E. R. Monroy-Vargas, 2019, *On the relationship between the 500 hPa height fluctuations and the atmosphere thickness over Iran and the Middle East*, Tethys Journal of Weather and Climate of the Western Mediterranean [Scopus], 01 (16).
9. Rakesh Sahu and Rajan Dev Gupta, 2018, *Conceptual framework of combined pixel and object based method for delineation of debris-cover glaciers*, ISPRS International Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol. IV-5, p:173- 180, DOI: 10.5194/isprs-annals-IV-5-173-2018.
10. Ashtosh Kumar Tripathi, Sonam Agarwal and Rajan Dev Gupta, 2018, *A comparative analysis of conventional hadoop with proposed cloud enabled hadoop framework for spatial big data processing*, ISPRS International Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol. IV-5, p: 425- 430, DOI: 10.5194/isprs-annals-IV-5-425-2018.
11. Dharmaveer Singh, Sanjay Kumar Jain, **Rajan Dev Gupta**, Sudhir Kumar, Shive Prakash Rai and Neha Jain, 2016, *Analyses of Observed and Anticipated Changes in Extreme Climate Events in the Northwest Himalaya*, Climate, 2016, 4(1), 9, doi:10.3390/cli4010009.
12. Sonam Agrawal and R.D. Gupta, 2016, *School Mapping and Geospatial Analysis of the Schools in Jasra Development Block of India*, ISPRS International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol. XLI-B2, p:145–150, DOI: 10.5194/isprsarchives-XLI-B2-145-2016.

13. Dharmaveer Singh, Sanjay K. Jain, **R.D. Gupta**, 2015, *Global Climate Model: A Comprehensive Tool in Climate Change Impact Studies*, Geography Environment Sustainability, Vol. 8, No.2, pp: 30-44.
14. Dharmaveer Singh, **R.D. Gupta**, Sanjay K. Jain, 2014, *Study of Long-Term Trend in River Discharge of Sutlej River (N-W Himalayan Region)*, Geography Environment Sustainability, Vol. 7, No. 3, pp: 87-96.
15. S. Verma and **R.D. Gupta**, 2014, *Spatial and Temporal Variation of Japanese encephalitis Disease and Detection of Disease Hotspots: a Case Study of Gorakhpur District, Uttar Pradesh, India*, ISPRS International Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences. Vol. II-8, pp:1-7, doi:10.5194/isprsannals-II-8-1-2014.
16. Dharmaveer Singh, Sanjay K. Jain and **R.D. Gupta**, 2014, *Trend Analysis of Historical and Downscaled Future Precipitation Data in Sutlej Basin, India*, International Journal of Earth Sciences and Engineering, Vo. 7, No.1, pp: 118-127.
17. Agrawal S. and **Gupta R.D.**, 2014, *Development and Comparison of Open Source based Web GIS Frameworks on WAMP and Apache Tomcat Web Servers*, International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XL-4, pp:1-5, doi:10.5194/isprsarchives-XL-4-1-2014.
18. **Gupta R.D.**, Singh M.K, Snehmani, Ganju A., 2014, *Validation of SRTM X Band DEM over Himalayan Mountain*, International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol. XL-4, pp:71-74, doi:10.5194/isprsarchives-XL-4-1-2014.
19. Snehmani, Mritunjay Kumar Singh, **R.D. Gupta**, and A. Ganju, 2013, *DTM Generation and Avalanche Hazard Mapping using Large Format Digital Photogrammetric Data and Geomatics Technique*, Journal of Remote Sensing & GIS, Vol. 4 (2): 4-13, ISSN:2230-7990.
20. Snehmani, Mritunjay Kumar Singh, **R.D. Gupta**, A. Ganju, 2013, *Extraction of High Resolution DEM from Cartosat-1 Stereo Imagery using Rational Math Model and Its Accuracy Assessment for a Part of Snow Covered NW-Himalaya*, Journal of Remote Sensing & GIS, Vol. 4(2): 23-34, ISSN:2230-7990.
21. **Gupta, R.D.** and Bariar, Anuj, 2006, *Modelling of Gaseous Effluents by Implementing Gaussian Model under GIS Environment*, Journal of Environmental Science and Engineering, Vol. 48, No.1, pp.:21-26.
22. Bariar, Anuj, **Gupta, R.D.**, Prasad, S.C., 2006, *Geospatial Database Development for Urban Planning using Satellite Data under GIS Environment*, The International Archives of the Photogrammetry, Remote Sensing & Spatial Information Science (IAPRS & SIS), Vol. XXXVI, Part-4, pp.:455-459.

**C. Publications in Refereed Journals: Total: 05**

1. Verma, Shipra and **Gupta, R.D.**, 2013, *Role of Remote Sensing using Topographic Analysis for Wetland breeding Sites for Encephalitis Disease Vectors in Gorakhpur district, Uttar Pradesh, India*, International Journal of Scientific & Engineering Research, Vol. 4, No. 12, pp: 15-21.
2. Gupta, Y.K., **Gupta, R.D.** and Kumar, K., 2009, *GIS for Mapping and Analysis of Infrastructural Facilities at Village Level*, Journal- Indian Cartographer, Vol. 29.
3. **Gupta, R.D.**, Gupta, Y.K. and Asthana, R.V., 2003, *A Spatial Modelling Approach for Selection of Residential Sites using GIS: A Case Study for Chail Block of Kaushambi District*, Journal Indian Cartographer, Vol. 23.
4. **Gupta, R.D.**, Garg, P.K. and Arora, M., 2001, *A GIS Based Decision Support System for Developmental Planning in Dehradun District*, Journal Indian Cartographer, Vol. 21.
5. **Gupta, R.D.**, Garg, P.K. and Arora, M., 2000, *Use of Statistical Techniques for Inter- Block Disparities Analysis under GIS Environment*, Journal GIS India, Vol. 9, No.6.

**D. Publications in International Conference Proceedings: Total: 33**

1. Gupta, R. D. & Sarif, M. O., 2021, *Monitoring Spatiotemporal Land Use and Land Cover Dynamics: A Case Study of Kolkata Megapolis, India (1991-2021)*. 1<sup>st</sup> International Conference on Sustainable Development in Civil and Electrical Engineering (SDCEE-2021), NIT Kurukshetra, 17-19 December, 2021, Kurukshetra (Haryana), India.
2. Sarif, M.O. and Gupta, R.D., 2019, *Change Assessment of Spatio-temporal Dynamics of Land Use/ Land Cover using Remote Sensing and GIS: A Case Study of Lucknow City (1993-2019)*, 39<sup>th</sup> INCA International Congress on New Age Cartography and Geospatial Technology in Digital India, Dec 18-20, 2019 at Dehradun, India (Journal: Indian Cartographer).
3. Sonam Agrawal and R.D. Gupta, 2017, *Application of Image Analysis in Land-Use and Land-Cover Assessment around Schools for Planning and Development*, In Proceedings of the Computer Graphics International Conference (CGI'17), June 27-30, 2017, Yokohama, Japan. Association for Computing Machinery, NY, p: 1–4, DOI: 10.1145/3095140.3095144.
4. Rabindra K. Barik, Harishchandra Dubey, Arun B. Samaddar, **Rajan D. Gupta**, Prakash K. Ray, 2016, *FogGIS: Fog Computing for Geospatial Big Data Analytics*, 3rd IEEE Uttar Pradesh Section International Conference on Electrical, Computer and Electronics Engineering, December 09-11, 2016, Indian Institute of Technology (BHU) Varanasi, India, Available at: <http://arxiv.org/abs/1701.02601>.
5. Dharmaveer Singh, **R.D. Gupta** and Sanjay K. Jain, 2013, *GCMs Derived Projection of Precipitation and Analysis of Spatio-Temporal Variation over N-W Himalayan Region*,

International Conference on Climate Change, Water Resources and Disasters in Mountainous Regions: Building Resilience in Changing Climate, Nov. 27-29, 2013 at Kathmandu, Nepal.

6. Verma, Shipra and **Gupta, R.D.**, 2013, *Use of Satellite Data for Identifying the Risk of JE Disease in District Gorakhpur, Uttar Pradesh, India*, International Conference: India Geospatial Forum on Towards Geo-enabled Economy, Jan. 22-24, 2013. Hyderabad, India.
7. Singh, Dharmaveer, Jain, Sanjay K., **Gupta, R.D.**, 2013, *Statistical Analysis and Downscaling for Maximum and Minimum Temperature from Predictors of HadCM3 Model*, 8<sup>th</sup> International Congress on Climate Change, Territorial Classification and Socio-Economic Crisis, April 23-25, 2013, Centre for Remote Sensing, Bharathidasan University, Tiruchirappalli, India.
8. Verma, Shipra and **Gupta, R.D.**, 2012, *Development of Health Information Database using Spatial Technologies for Japanese Encephalitis*, International Conference: India Geospatial Forum on Geo-Budget: Enabling Sustainable Growth, Feb. 7-9, 2012, Gurgaon, India.
9. **Gupta, R.D.**, Siddiquie, Shekh Faisal, Srivastava, Shweta, 2011, *Web GIS Framework for Surveillance of Malaria: A Case Study of Allahabad District, India*, URISA Conference on GIS in Public Health, June 27-30, 2011, Atlanta, Georgia, USA.
10. Singh, Pushpraj and **Gupta, R.D.**, 2011, *Development of Software as a Service Based GIS Cloud for Academic Institutes*, International conference Geospatial World Forum 2011: Dimensions and Directions of Geospatial Industry, Jan. 18-21, 2011, Hyderabad, India
11. Sakhare Pratap and **Gupta, R.D.**, 2011, *Development of Web GIS Framework for Natural Resource Management using ERDAS APOLLO 2010*, International conference Geospatial World Forum 2011: Dimensions and Directions of Geospatial Industry, Jan. 18-21, 2011, Hyderabad, India
12. Samaddar, Arun B., Barik, R.K. and **Gupta, R.D.**, 2010, *Web GIS for Mineral Resources Management in India*, 3<sup>rd</sup> Asian Mining Congress, Jan. 22-25, 2010, Kolkata, India.
13. Gupta, Y.K., **Gupta, R.D.** and Kumar, K., 2010, *Web GIS for Planning Infrastructural Facilities at Village Level*, International conference Map India 2010 on “Defining Geospatial Vision of India” held from Jan. 19-21, 2010 at Gurgaon, India.
14. **Gupta, R.D.** and Tiwari, S., 2009, *Design and Implementation of Distributed Web GIS Architecture*, ISPRS International Workshop on Geospatial Data Cyber Infrastructure and Real-time Services with special emphasis on Disaster Management, Jointly organised by ISPRS WG IV/1, WG VIII/1 and WG IV/3, Nov. 25-27, 2009 at Hyderabad, India
15. **Gupta, R.D.**, Samaddar, Arun B., Barik, R.K., Madden, Marguerite, 2009, *Open Source GIS based Framework for Development of Health GIS*, 3<sup>rd</sup> International Conference on Health GIS 2009, July 24-26, 2009 at Hyderabad, India and to organised by AIT, Bangkok.

16. Barik, R.K., Samaddar, Arun B. and **Gupta, R.D.**, 2009, *Investigations into the Efficacy of Open Source GIS Software*, Map World Forum 2009: International conference on Geospatial Technology for Sustainable Planet Earth, Feb 10-13, 2009, Hyderabad, India.
17. Sathiaraj, G and **Gupta, R.D.**, 2009, *Modelling Temporal Variations of Vegetation Cover with Rainfall using NOAA AVHRR Data: A Case Study of Western Ghats, Goa*, International conference, Map World Forum, on Geospatial Technology for Sustainable Planet Earth, Feb 10-13, 2009, Hyderabad, India.
18. **Gupta, R.D.**, 2007, *Geostatistical Modelling for Assessment of Development at Micro Level*, Presented in ASPRS International Spring Conference on *Identifying Geospatial Solutions*, May 7-11, 2007, Tampa, Florida, USA.
19. Bariar, Anuj, **Gupta, R.D.**, Prasad, S.C., 2007, *Development of GIS based Spatial Data Infrastructure for Micro-Level Planning*, International Conference: Map World Forum, 22-25 January, Hyderabad, India.
20. **Gupta, R.D.**, 2007, *GIS based DSS for Natural Disaster Management: A Case Study of Allahabad District*, International Conference: Map World Forum, Jan 22-25, Hyderabad, India.
21. Kumar, K. and **Gupta, R.D.**, 2005, *GIS and Remote Sensing based Approach for Developmental Planning and Resource Management: A Case Study of Kuraon Block, India*, 56<sup>th</sup> International Astronautical Congress 2005, Oct.17-21, 2005, Fukuoka, Japan
22. **Gupta, R.D.**, 2005, *Spatial Decision Support System for Planning Infrastructural Facilities at Village Level*, 13<sup>th</sup> International Conference on Geoinformatics, Toronto, Canada, August 17-19, 2005.
23. Kumar, K. and **Gupta, R.D.**, 2005, *GPS Based Approach for Crustal Deformation Studies*, International Conference on GIS/GPS/ Remote Sensing- Map India, Feb. 7-9, 2005, New Delhi.
24. **Gupta, R.D.**, Agarwal, V.C. and Hari Kishan, G. S., 2005, *Implementation of USLE Model under GIS Environment for Soil Erosion Assessment: A Case Study of Loni River Watershed*, International Conference on GIS/GPS/ Remote Sensing- Map India, Feb. 7-9, 2005, New Delhi.
25. Kumar, K., **Gupta, R.D.**, 2004, *Investigations into the Efficacy of GPS Derived Ground Control Points for Rectification of IRS Images*, 55<sup>th</sup> International Astronautical Congress 2004, Vancouver, Canada, October 4-8, 2004.
26. **Gupta, R.D.**, Rai, G.K. and Bhaskar, Bala,C., 2004, *GIS based User Interactive System for Management of Archaeological Data of Kaushambi Site*, International Conference on “Remote Sensing Archaeology: Understanding Historical Cultural Heritage with Space Technology”, Oct. 18-21, 2004, Beijing, China.



27. Gupta, V.K., Agarwal, I.C. & **Gupta, R.D.**, 2003, *Remote Sensing and GIS as an Information Technology for Air Quality Status Planning*, Asian Conference on GIS, GPS, Aerial Photography and Remote Sensing, Oct.13-15, 2003, Kuala Lumpur, Malaysia.
28. Agarwal, I.C., **Gupta, R.D.**, Gupta, V.K., 2003, *GIS as Modelling and Decision Support Tool for Air Quality Management: A Conceptual Framework*, 6<sup>th</sup> International Conference on GIS/GPS/RS: MapIndia 2003, 28-31 Jan, New Delhi.
29. Srivastava, S.K. and **Gupta, R.D.**, 2003, *Monitoring of Changes in Land Use/ Land Cover using Multi-sensor Satellite Data*, 6<sup>th</sup> International Conference on GIS/GPS/RS: Map India 2003, Jan.28-31, New Delhi.
30. **Gupta, R.D.**, Gupta, Y.K., Srivastava, S.K., 2002, *A Spatial Modelling Approach for Land Suitability Analysis for Agriculture using GIS*, ISPRS TC VII International Symposium on Resource and Environmental Monitoring, December 3-6, Hyderabad, India.
31. Srivastava, S.K. and **Gupta, R.D.**, 2002, *Urban Sprawl Mapping using Digital Image Processing Techniques: A Case Study of Allahabad City*, ISPRS TC VII International Symposium on Resource and Environmental Monitoring, December 3-6, Hyderabad, India.
32. **Gupta, R.D.**, Garg, P.K. and Arora, M., 2001, *A GIS Based Spatial Modelling for Developmental Planning*, International Conference on Remote Sensing & GIS/GPS, Feb 2-5, Hyderabad.
33. **Gupta, R.D.**, Garg, P.K. and Arora, M., 2000, *Analysis of Intra-District Disparities using GIS Technique*, 3<sup>rd</sup> International Conference on GIS/GPS/RS, Centre for Spatial Database Management & Solutions, New Delhi, India.

**E. Publications in National Conference Proceedings: Total: 17**

1. Singh, D., Jain, S.K. and **Gupta, R.D.**, 2014, *Analysis of Extreme Precipitation Indices over Sutlej Basin, N-W Himalayan Region, India*. Proceedings of National Conference On Recent Advancements & Innovations in Civil Engineering (RAICE-2014) 27-29 June, 2014, Department of Civil Engineering, Technocrat Institute of Technology, Bhopal, pp 137-142.
2. Singh, D., **Gupta, R.D.** and Jain, S.K., 2014, *Statistical Analysis of Annual and Seasonal Patterns of Discharge in N-W Himalayan Region of Sutlej River Basin, India*. National Conference on Water Demand, Sustainability and Future, May 3-4, 2014, River Water User Association and Institution of Engineers (India) Allahabad Local Centre, Allahabad.
3. Singh, Dharmaveer, **Gupta, R.D.** and Jain, Sanjay K, 2013, *Impact of Climate Change on Temperature under A2 and A1B Emission Scenarios in a Hilly Basin*, National Seminar on Green Technologies for Sustainable Environmental Management, March 22-23, 2013, Doon University, Dehradun, India.

4. Singh, Dharmaveer, Jain, Sanjay K., **Gupta, R.D.**, 2012, *Evaluating Impacts of River Flooding on Human Society with Special Reference to Indian Monsoon*, 3<sup>rd</sup> Annual Symposium on Response of Asian Rivers to Climate Change: Past, Present and Future Scenario, Nov. 14-16, 2012, CSIR-NGRI, Hyderabad, India.
5. Barik R.K., Ray Sujit, Samaddar, Sefalika G., Samaddar, Arun B. and **Gupta, R.D.**, 2011, *Service Oriented Architecture based SDI model for Geographical Indication Web Services in India*, 2<sup>nd</sup> IPR Researchers Confluence, Feb. 9-12, 2011, IIT Bombay, India.
6. Samaddar, Arun B., **Gupta, R.D.** and Paudyal, D.R., 2007, *Management of Intellectual Property Rights in Geospatial Domain*, National Workshop on Intellectual Properties, Dec. 14-15, 2007, MNNIT, Allahabad.
7. **Gupta, R.D.**, 2006, *Integrated Use of GIS, Remote Sensing and GPS for Transportation Infrastructure Planning and Management for Allahabad District*, National Seminar on Concrete Pavements: Design, Construction and its Repair, Sept. 10-11, 2006, Allahabad.
8. **Gupta, R.D.** and Kumar, Sunil V., 2005, *Development of Village Level Information System for Land Use Planning at Micro-level under GIS Environment*, Invited Paper at National Seminar on GIS for Rural Development, Sept. 26-28, 2005, Hyderabad.
9. **Gupta, R.D.**, 2005, *GPS Based Ground Control Points for Rectification of Satellite Data*, National Workshop on GPS Technology and Applications, Sept. 14-15, 2005, Hyderabad.
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