

Curriculum Vitae

Name: **Dr. (Ms) Sulochana Shekhar**

Designation: **Professor**

Dean, School of Earth Sciences

Head, Department of Geography

Employer Address: Department of Geography
School of Earth Sciences
Central University of Tamil Nadu
Neelakudi Village, Kangalancherry Post
Thiruvarur - 610 005
Mail: sulochana@cutn.ac.in



ORCID: <https://orcid.org/0000-0002-2616-7701>

Scopus Author ID: 8135636200

ACADEMIC QUALIFICATIONS

**Endeavour Research Fellowship
(Aug2016 - Dec2016)**

: Received Australian Government Endeavour Research fellowship and worked at University of Tasmania, Tasmania, Australia

Commonwealth Academic Fellowship (2013-14) : Worked on SDSS at University College of London, London, United Kingdom
(Sep 2013 to Dec 2013)

**Erasmus Post Doctorate Fellowship
(Sep2010 - Feb2011)**

: Received European Commission Scholarship for Post- Doctoral Research and worked at ITC (University of Twente), The Netherlands

M.Sc. Geographic Information Science & System: From University of Salzburg, Austria
(Aug 2010)
(UNIGIS M.Sc.)

**Ph.D. in Geography
(April 2006)**

: Awarded on the Thesis entitled "Monitoring urban sprawl of Pune by Remote sensing and GIS techniques" under the guidance of Dr Jaymala Diddee, Professor (Retd), Department of Geography, University of Pune, Pune.

**Master of Education
(May 1998)**

: From Annamalai University, Chidambaram, TN

Bachelor of Education (May 1993)	: From Bharathiyar University, Coimbatore, TN
Master of Science in Geography 1992)	: From Madurai Kamaraj University, Madurai, TN (April
Bachelor of Science in Geography (April 1990)	: From Madurai Kamaraj University, Madurai, TN

ACADEMIC DISTINCTIONS

University Rank Holder (Gold Medallist) in Under Graduation (1st rank - B.Sc. Geography)

University Rank Holder (Gold Medallist) in Post-Graduation (M.Sc. Geography) Awarded the Dr.M.Varadarajan Memorial Endowment Medal for Securing 1st rank in M.Sc. (Geo)

University Rank Holder (Second in Merit) in under graduation (B.Ed.) Awarded the National Scholarship by the Ministry of Human Resources Development, Government of India for securing 2nd rank in B.Ed.

Qualified for the National Eligibility Test for Lectureship conducted by the University Grants Commission in December 1998.

Qualified for the State level Eligibility Test for Lectureship of Tamil Nadu State in March 1998

Received Best Paper Award at INCA XXXIV International Conference, Dec, 2014.

Major scientific fields of interest : *Urban Geography, Applications of Geospatial techniques in Urban Environment.*

List of publications:

1. Sulochana Shekhar (2001) Colonial urban development in India-A conceptual clarification, Transactions of the Institute of Indian Geographers, 2001, Vol 23 No: 1 &2, Page 29 – 38, 10 pages.
2. Sulochana Shekhar (2004) Urban sprawl assessment - Entropy approach, GIS Development, May 2004, Vol 8 issue 5, Page 43 – 48. 6 Pages.
3. Sulochana Shekhar (2005) Modelling Urban Development with Fuzzy Logic and cellular automata, Asian Journal of Geoinformatics, Vol 6 No 1 2006. Page 3-10. 8 pages.
4. Sulochana Shekhar (2007) Changing Space of Pune- A GIS Perspective, a paper published in the Net. Full paper is available in www.gisdevelopment.net.

5. R Nijagunappa, Sulochana Shekhar, B. Gurugnanam, PLN Raju, and Prabir DE (2007) *Road network analysis of Dehradun city using high resolution satellite data and GIS*, Photo nirvachak, Journal of ISRS, Vol 33 No 3, 2007. Page 267-274, 8 pages.
6. Gurugnanam, M Suganya, Sulochana Shekhar (2007) Ground water quality studies in Thirumanimuthar sub basin, Salem dist, Tamil nadu, India. paper published in Eco-Chronicle Vol 2 No 1, 2007. Page 27-32, 6 pages.
7. Gurugnanam, B., Prabakaran, N., Vasudevan, S., Shekhar Sulochana and Lingeswara Rao, S.V (2008) GIS Point Scoring for Good Water Bearing Zone Identification at Sweta River, Kallar Basin, Tamil Nadu, India (October 3, 2008). *The Icfai University Journal of Earth Sciences, Vol. 2, No. 4, pp. 47-54, October 2008 Available at SSRN: <http://ssrn.com/abstract=1278316>*
8. Shekhar Sulochana (2008) Ground Truth Verification in Urban Planning and Management - A Case Study of Pune City, October 16, 2008. Available at SSRN: <http://ssrn.com/abstract=1285442>
9. Sulochana Shekhar (2012) Modelling the Probable Growth of Slums by using Geoinformatics, International Journal of Innovations and Development, Volume 1, Issue 8, August 2012. ISSN 2277 – 5390
10. Sulochana Shekhar (2012) Detecting Slums from Quick Bird Data in Pune using an Object Oriented Approach, International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XXXIX-B8, 2012 XXII ISPRS Congress, 25 August – 01 September 2012, Melbourne, Australia.
11. Sulochana Shekhar (2013) Slum modelling by using Ontology and Geoinformatics: case study of Gulbarga, International Journal of Geoinformatics, Vol 9, No 2, June 2013. ISSN 1686-6576.
12. Kumar, D. and Shekhar, S. (2014) Research Prospects in Spatial Data Infrastructure for Handling Energy Linked Disaster's, ISOR Journal of Environmental Science and Food Technology (IOST-JESTFT) e-ISSN:2319-2402, p-ISSN:2319-2399, Volume 8, Issue 5 Ver. III, PP 53-67. Peer reviewed International Journal.
13. Kumar, D. and Shekhar, S. (2014) Photovoltaic Energy Assessment Using Geospatial Technology International Journal of Scientific & Technology Research (IJSTR) Volume 3, Issue 6, PP 54-60. Peer reviewed International Journal. ISSN 2277-8616
14. Sulochana Shekhar (2014) Towards Building Slum Ontology for the real stakeholders", Journal of Urban and regional studies, Journal of the UGC Centre for Advanced study, Department of Geography, Osmania University, Hyderabad, Volume 1, No1, August 2014 page 92-104.
15. Sulochana Shekhar (2014) Improving the slum planning through geospatial Decision Support system", The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XL-2, 2014 ISPRS Technical Commission II Symposium, 6 – 8 October 2014, Toronto, Canada.

16. Sulochana Shekhar (2014) A study on state of geospatial courses in Indian Universities”, The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XL-8, 2014. ISPRS Technical Commission VIII Symposium, 09 – 12 December 2014, Hyderabad, India.
17. Sulochana Shekhar and Shirish Kumar (2014) Assessing the Quality of Urban Environment through Urban Neighbourhood Green Index”, ISPRS TC VIII International Symposium on “Operational Remote Sensing Applications: Opportunities, Progress and Challenges”, Hyderabad, India, December 9 – 12, 2014
18. Kumar, Deepak and Shekhar, Sulochana (2014) Computing Building Rooftop Solar Potential for Photovoltaics”, Conference Proceedings papers of ISRS Special Interactive Session in ISPRS TC VIII Mid-Term Symposium on “Operational RS Applications: Opportunities, Progress and Challenges” held during December 9-12, 2014 at Hyderabad, India. Available at: http://www.isrsindia.in/isprs_doc/isrs_p_14.pdf
19. Kumar, Deepak and Shekhar, Sulochana (2014) Modelling Solar Energy Using Geospatial Technology, Conference Proceedings of International Conference on Geospatial Momentum for Society and Environment, CEPT University, Ahmedabad, AGSE Publishing, Germany, PP 351-364, ISBN: 978-3-943321-12-8. Available at: http://www.appliedgeoinformatics.org/downloads/AGSE2014_Full%20Paper_Preversion.pdf
20. Sulochana Shekhar (2014) Mapping for Change-Participatory Approach in Slum Planning, Indian Cartographer Vol. XXXIV: 2014 Theme: Urban Management
21. Deepak Kumar, Sulochana Shekhar (2015) Statistical analysis of land surface temperature–vegetation indexes relationship through thermal remote sensing, Ecotoxicology and Environmental Safety 121 (2015) 39–44 journal homepage: www.elsevier.com/locate/ecoenv
22. Sulochana Shekhar and Jaymala Diddee (2015) Spatial-Temporal Changes in Urban Fringe: A case study of Pune, Annals of the National Association of Geographers, India, Volume XXXV.No.2, Dec 2015.
23. Deepak Kumar, Sulochana Shekhar (2016) Linear Gradient Analysis of Kinetic Temperature through Geostatistical Approach, Modelling Earth Systems and Environment (Springer) ISSN 2363-6203, DOI 10.1007/s40808-016-0198-3.
24. S. Shekhar , E-H. Yoo , S.A. Ahmed , R. Haining , S. Kadannolly (2017) Analysing malaria incidence at the small area level for developing a spatial decision support system: A case study in Kalaburagi, Karnataka, India, Spatial and Spatio-temporal Epidemiology 20 (2017) 9–25.
<https://www.sciencedirect.com/science/article/pii/S1877584516301204?via%3Dihub>
25. Sulochana Shekhar (2017) Slum Planning in India: Special reference to RAY. The Indian Geographic Journal, Vol 92, No.1 2017(Published in 2019).
26. Deepak Kumar, Tavishi Tewary, Sulochana Shekhar (2018) Enhanced Adaptive Technique for Surface Temperature Variability Analysis, Iranian Journal of Science and Technology, Transactions A: Science pp1–8 |
27. Nivedita Priyadarshini K; V. Sivashankari; Sulochana Shekhar (2019) An assessment of land cover change dynamics of GAJA cyclone in coastal Tamil Nadu, India using Sentinel 1 SAR dataset, The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XLII-3/W8, 2019 Gi4DM 2019 – GeoInformation for Disaster Management, 3–6 September 2019, Prague, Czech Republic.

28. Nivedita Priyadarshini K, Sivashankari V, Sulochana Shekhar, Balasubramani K, (2019), Assessment on the potential of multispectral and hyperspectral datasets for Land Use / Land Cover classification, (doi:10.3390/IECG2019-06211) Published: 05 June 2019 by MDPI AG in 2nd International Electronic Conference on Geosciences session Earth Sciences through Earth Observation, Proceedings 2019 Volume 24, Issue 1, 12.
29. Sulochana Shekhar (2019) Effective management of slums- Case study of Kalaburagi city, Karnataka, India Journal of Urban Management, journal homepage: www.elsevier.com/locate/jum (Available online 18 September 2019). (Impact Factor: 0.847) <https://doi.org/10.1016/j.jum.2019.09.001>
30. Sulochana Shekhar and Jagannath Aryal (2019) Role of geospatial technology in understanding urban green space of Kalaburagi city for sustainable planning, Urban Forestry & Urban Greening Volume 46, December 2019, 126450 (Published online Sep ,2019) (Impact Factor 3.043) <https://doi.org/10.1016/j.ufug.2019.126450>
31. Pralip Kumar Narzary, Ambarish Kumar Rai, Shraban Sarkar, Sulochana Shekhar, Dinabandhu Mahata (2019) Demographic and Morphological changes in Kolkata City, India during 1951-2014 , European Journal of Geography (The journal of the European Association of Geographers), Volume 10, No 3, 2019. (Impact factor 0.567).
32. Deepak Kumar, Mandvi Misra, and Sulochana Shekhar (2020) Assessing Machine Learning Based Supervised Classifiers For Built-Up Impervious Surface Area Extraction From Sentinel-2 Images, Journal: Urban Forestry & Urban Greening, 10th May 2020.
33. Panneer S, Kantamaneni K, Pushparaj RRB, Shekhar S, Bhat L, Rice L. (2021) Multistakeholder Participation in Disaster Management-The Case of the COVID-19 Pandemic. Healthcare (Basel). 2021 Feb 13;9(2):203. doi: 10.3390/healthcare9020203. PMID: 33668669; PMCID: PMC7918841.
34. Nivedita Priyadarshini Kamaraj, Sulochana Shekhar, V. Sivashankari, Karuppusamy Balasubramani, Kumar Arun Prasad (2021). Detecting heat-inducing urban built-up surface material with multi remote sensing datasets using reflectance and emission spectroscopy, Remote Sensing of Environment, Volume 264, 2021, 112591,
35. Sulochana Shekhar and Jagannath Aryal (2021). Monitoring urban green spaces using geospatial technologies-A case study of Hobart, Tasmania, Australia, Transactions of the Institute of Indian Geographers, Vol. 43, No. 1, 2021.

Articles Published

1. Sulochana Shekhar (2006). *Geospatial Technology for Monitoring of Development plan. An article published in the book Applications of Geospatial Technology* Edited by Dr.A.Ganesh pp 185- 194, 10 pages, published by Satish serial publishing house, New Delhi. (Reference Book)

2. Sulochana Shekhar and Jaymala Diddee (2009) Globalising Indian cities - Special reference to Pune” An article published in the book “Globalisation: Issues and challenges for India” published by Department of Geography, Smt Parvatibai Chowgule College, Margao, Goa.
3. Sulochana Shekhar, Priya Narayanan (2012) Sub pixel analysis of Hyperion data- Case study of Jaipur city, published in Conference proceedings, National Seminar on Frontier research on Earth Sciences
4. Priya Narayanan, Sulochana Shekhar (2012) Urban Roof-Top material discrimination, through Intra-class spectral variability of Hyperspectral data published in Conference proceedings.
5. Nijagunappa.R, S.Gaikwad, A.Ahmed, Sulochana Shekhar (2012), Urban Sprawl Study on Gulbarga City using Geoinformatics and Shannon’s Entropy published in Conference proceedings.
6. Sulochana Shekhar (2013) Modelling the Growth of Slums, Challenges of Urbanization in the 21st Century, Volume5, Marginalisation and Exclusion in Urban spaces, Edited by Kalpana Markandey, B. Srinagesh and Ashok Kumar Lonavath, ISBN -13: 978-81-8069-952-8(vol 5).
7. Kumar, Deepak & Shekhar, Sulochana (2015) Rural Energy Supply Models for Smart Villages, In Rao, Madhava V.; Rao, Kesava P.; Kumar Phanindra T. & Murthy D.S.R. (1st Edi.) Geoinformatics Applications in Rural Development, Professional Books Publisher, Hyderabad, PP 166-178 ISBN: 978-81-909728-9-5.
8. Sivashankari V, Amit Kumar Dubey, Nivedita Priyadarshini K, Sulochana Shekhar (2019), Integrated hydrological modelling over upstream catchments of Himalayan rivers and assessment of extreme hydrological events, (doi:10.3390/IECG2019-06210) Published: 05 June 2019 by MDPI AG in 2nd International Electronic Conference on Geosciences session Tracers in Hydrogeology, Proceedings 2019 Volume 24, Issue 1, 13.
9. Nivedita Priyadarshini K, Sivashankari V, Sulochana Shekhar, Balasubramani K (2019), Comparison and evaluation of dimensionality reduction techniques for hyperspectral data analysis, (doi:10.3390/IECG2019-06209) Published: 05 June 2019 by MDPI AG in 2nd International Electronic Conference on Geosciences session Earth Sciences through Earth Observation, Proceedings2019 Volume 24, Issue 1, 6.
10. Sulochana Shekhar (2019) Application of Geoinformatics in analysing road accidents, Chapter 2, Public Health Relevance of Road Traffic Injury in India, by P Sigamani, J Raja Meenakshi, NU Khan, pages 7-18, Published by Bloomsbury India, ISBN 9789389000627.
11. Seenipandi, K., Ramachandran, K.K., Ghadei, P., Shekhar, S., 2021. Ocean remote sensing for seasonal predictability of phytoplankton (chl- a) biomass in the Southern Indian coastal water region using Landsat 8 OLI images. In: Rani, M., Seenipandi, K., Rehman, S., Kumar, P., Sajjad, H. (Eds.), Remote Sensing of Ocean and Coastal Environments. Elsevier, pp. 31–46. ISBN: 9780128196045
12. Seenipandi, K., Ramachandran, K.K., Ghadei, P., Shekhar, S., 2021. Seasonal variability of sea surface temperature in Southern Indian coastal water using Landsat 8 OLI/TIRS images. In: Rani, M., Seenipandi, K., Rehman, S., Kumar, P., Sajjad, H. (Eds.), Remote Sensing of Ocean and Coastal Environments. Elsevier, pp. 277–295. ISBN: 9780128196045
13. Seenipandi, K., Ramachandran, K.K., Ghadei, P., Shekhar, S., 2021. Ocean remote sensing of suspended sediment variability in Southern Indian coastal water region using Landsat 8 OLI images. In: Rani, M., Seenipandi, K., Rehman, S., Kumar, P., Sajjad, H. (Eds.), Remote Sensing of Ocean and Coastal Environments. Elsevier, pp. 297–313. ISBN: 9780128196045
14. Seenipandi, K., Ramachandran, K.K., Ghadei, P., Shekhar, S., 2021. Ocean remote sensing of seawater salinity and its seasonal variability – a case study of Southern Indian coastal water using Landsat 8 – OLI images. In: Rani, M., Seenipandi, K., Rehman, S., Kumar, P., Sajjad, H. (Eds.), Remote Sensing of Ocean and Coastal Environments. Elsevier, pp. 297–313. ISBN: 9780128196045
15. Priyadarshini K.N., Sivashankari V., Shekhar S., *Balasubramani K.* (2021) Examining Land Surface Temperature from Agglomerative Spectra Using Hyperspectral Dataset. In: Sustainable Climate Action and

Water Management (Eds. Mishra R.K., Singh R.B., Dubey A.). Advances in Geographical and Environmental Sciences. Springer, Singapore. https://doi.org/10.1007/978-981-15-8237-0_17

Books Published:

- Edited Book **“Globalisation: Issues and challenges for India”** 2009 published by Department of Geography, Smt Parvatibai Chowgule College, Margao, Goa. Editors: nandkumar Sawant, Sulochana Shekhar, Jaymala Diddie and Suresh Jog.
- **“Study on Pune by Using Remote Sensing and GIS Techniques”** By Sulochana Shekhar (Paperback-11-2010) Publisher: Lap Lambert Academic Publishing, Germany
<http://www.amazon.com/study-using-Remote-Sensing-techniques/dp/3843372934>
- **Modeling the Growth of Slums**, Application of Geoinformatics in Urban Environment By Sulochana Shekhar, Lambert Academic Publishing, Germany (2011) ISBN 978-3-8465-3401-4.
- **“Slum Development in India- A study of slums in Kalaburagi” by Sulochana Shekhar, Springer International Publishing. The urban Book Series, April 2021, Print ISBN: 978-3-030-72291-3 Electronic ISBN: 978-3-030-72292-0**

List of Conferences/Seminars/Workshops attended and Presented papers

International level:

Name of the Conference/Seminar	Place	Dates	Title of the Paper presented
International conference- Map World Forum	Hyderabad, India	22-25 Jan 2007	“Changing Space of Pune- A GIS Perspective”
International conference on Globalisation: Consequences in the Indian context	IIG, Conference Goa, India	1&2 October 2007.	“Globalising urban areas, special reference to Pune”.
International conference- Map World Forum	Hyderabad, India	10-13 Feb 2009	“Rift in the Retail Space of Pune-A GIS analysis”.
International conference- Map India	Gurgaon, India	19-21 Jan 2010	Geostatistical analysis of Particulate matter concentration: A case study of Pune

Conference on 'Urban Development: patterns, causes, foundations and policy	HIS, Rotterdam Netherlands	13 &14 Dec 2010	Attended
Remote sensing cities Workshop European Commission, JRC	Joint Research Centre, ISPRA, Italy	15-17 th Feb 2011	Extraction of Slums of Ahmedabad city- strength and Weakness of OOA methodology
Asian Urbanisation Conference	Hyderabad, India	10-12 Dec 2011	Modelling the growth of slums by using Geoinformatics
Planet Under Pressure Rio +20	London, UK	26-29 th March	Integrating the urban poor for better urban governance
ISPRS 2012 International Congress	Melbourne Australia	25Aug-01 Sep 2012	Detecting Slums from the Quick bird data-case of Pune
Indian Geospatial Forum	Hyderabad India	22-24 Jan 2013	Spatio - temporal analysis of urban rural gradient modelling: Case of Gulbarga city
ISPRS Technical Commission II Symposium	Toronto, Canada.	6 – 8 October 2014	Improving the slum planning through geospatial Decision Support system
ISPRS TC VIII International Symposium on "Operational Remote Sensing Applications: Opportunities, Progress and Challenges"	Hyderabad, India,	December 9 – 12, 2014	Assessing the Quality of Urban Environment through Urban Neighbourhood Green Index
<i>INCA XXXIV International Congress on Cartography – Exploring New Dimensions</i>	Hyderabad, India	16-18,Dec 2014	Mapping for change- Participatory approach in slum planning
<i>India-International Science Festival</i>	IIT, Delhi India	5 th Dec 2015	Green City Planning through Urban Tree Canopy Assessment
GEOMED 2017, X international, interdisciplinary conference on spatial statistics, geographical epidemiology and geographical aspects of public health	Porto, Portugal.	7-9 th Sep 2017	An interactive Spatial decision Support System to manage Public Health in Gulbarga taluk, Karnataka, India
Asian Conference on Remote Sensing	New Delhi	Oct 23-27 2017	Green Planning for healthier cities

XI International Geographical Union (IGU) Commission Seminar cum 29 th Biennial Conference of North East India Geographical Society (NEIGS)	Guwahati	Feb 8-10 2018	Assessing the environmental impact of urbanisation by using Geoinformatics
International workshop on Geoinformatics for disaster Management (Invited Lecture)	Shivaji University, Kolhapur	04 th Aug 2018	Application of geoinformatics in Disaster management
14 th International Conference on Vectors and Vector Borne Diseases (Invited Lecture)	Bhubaneswar	09-11 Jan 2019.	SSDS for vector borne diseases- under the theme of Environment, Disease & Information Technology

National level:

S.No	Name of the event	Place	Dates	Title of Paper Presented
1	National Seminar on Managing the urban Fringe of Indian cities	University of Pune.	27-29 Nov2002	“The role of Remote Sensing and GIS in the management of urban fringe”
2	Training program on Urban Environmental	IGIDR, Mumbai	2-6 Dec 2002	Attended
3	A course on Geo concept software- Fundamental course	System Research Institute, Pune	5-10 Feb 2003	Attended
4	Basic training on GRAM ++ software	IIT, Powai, Mumbai	24-25 Jan2005	Attended
5	National Workshop on Geoinformatics in Water Sector.	NWA ,Pune	22-23 Sep2005	Attended
6	Training the Trainers Capsule on law of ArmedConflict	NDA, Pune	05–10. Dec2005	Attended
7	National Conference on Geoinformatics	IRS, Anna University, Chennai	04-06 Jan 2006.	Monitoring of Development Plan By Using LISS IV Data –A Case Study of Balewadi Village from Pune”
8	National Conference on Geoinformatics and Its applications	Osmania University, Hyderabad	10 &11 Feb2006.	“Reliability of Geoinformatics in Urban planning & management:-A case study of Pune city”.
9	Tutorials on “Geospatial databases for Urban Planning” organized by ISPRS	Goa	25-26 Sep 2006.	participated
10	XXXth Indian Geographers 'Meet IIG, Pune	University of Pune	20-22 Feb	“Changing pattern and problems of urban settlements in Pune”

11	IXth DGS National Conference Deccan Geographical Society	Ahmednagar College	17-19 Dec2009	“Mapping of Urban Environment by Using Satellite Data”
12	FEST2010,ISG,Pune Forest, Environment sustainability trends	Symbiosis, Pune	21 Aug	participated
13	HYPERSPECTRA-2011	Dept of Earth sciences IIT, Bombay	11- 18 Nov 2011	Participated and presented
14	National Seminar	Madurai Kamaraj University	17-19, Feb 2012	Appraisal of Geospatial Technology For Managing Urban Environment
15	AAG Workshop	Bangalore	12-16 March 2012	Attended and presented case study on (Kerala) migration
16	National Seminar on Frontier Research on Earth sciences	Central University of Karnataka, Gulbarga	05-06 May 2012	Sub –Pixel analysis of Hyperion data-case study of Jaipur city
17	Two days’ Workshop was organised for School Teachers(Geography at School level)	Army Public School, Bangalore	01-02 June 2012	Teaching Methods – Interactive sessions were organised as co-ordinator
18.	Indian Geographers meet IIG Conference	CESS, Trivandrum	13-15 Dec 2012	Ontology based Slum analysis
19	Workshops on urban planning	CASA, UCL, London	Oct 2013	Transport planning
20	National Seminar	University of Mumbai	21-23 March 2014	Application of Geoinformatics in Natural resources management
21	National Seminar	Osmania University, Hyderabad,	21-23 Aug 2014.	Towards building Slum Ontology- Case study of Gulbarga
22	3-day National Symposium on “Re-Orienting Teaching & Research in Geography	University of Pune (SBP university)	26 to 28 Dec 2014	Geography and Geo-Spatial Education
23	National Seminar on Tourism	SNDT College for Women Pune	26 th Feb 2016	Tourism in India
24	National Conference	University of Madras	14 &15 Feb 2018	Urban Agriculture, the Future

25	National Conference	Bharathidasan University	2 nd March 2018	Changing spaces and growing cities
26	National Seminar on “Non-traditional Challenges and Prospects of co-operation in South Asia”	University of Pune	26-27 March 2018	Urbanising South Asia: Opportunities and Challenges
27	National level training program on Drought Management	NIDM Bapala Andhra Pradesh	22-26 Oct 2018	Drought Management – Socio economic drought
28	Workshop on Sexual Harassment of women at work place	Bangalore	27-28 Nov 2018	Participated
29	National level Gender Budget and Climate Change Training Program	VAMNICOM Pune	10-12 Dec 2018	Gender Budget : Tamil Nadu

Sponsored Projects:

1. HUDCO sponsored Project on “Application of Geoinformatics in housing the Urban poor (Gulbarga city)”. (18.56 lakhs)
2. UGC Major Research Project on “Assessing the environmental impact of Urbanisation on Gulbarga city by using Geoinformatics”. (12. 5 lakhs)
3. UGC-UKIERI Research Project on “An interactive spatial Decision Support System for monitoring Public Health using Geoinformatics” (Rs12.73 Lakhs) with **University of Cambridge, UK**.
4. DST Sponsored Project on “Mitigating and Managing Urban Heat Islands through Social Forestry - Using Hyper & Multi-Spectral Remote Sensing” (32.96 lakhs)

Membership in Professional Bodies

1. Life Member of Institute of Indian Geographers ---- L 0 574
2. Life Member of Indian Society of Remote Sensing ---- L 2278
3. Life Member of Indian Society of Geomatics ---- L 0717
4. Life Member of Deccan Geographical Society ---- L 0820
5. Life Member of Indian Meteorological Society ---- LM2016
6. Life Member of Union of Geographic Information Technologists (UGIT)
7. Life Member of Indian Cartographic Association – LM2764
8. Life member of The Indian Geographical Society