

Rama Chandra Pillutla: Curriculum Vitae

Assistant Professor, Lab for Spatial Informatics (LSI)
International Institute of Information Technology, Hyderabad (IIIT-H)
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Education

- 2001-2006 Ph.D in Environmental Sciences (Remote Sensing and GIS)
Dissertation: *Phytodiversity Assessment of Tropical Rainforest of North Andaman using Remote Sensing and GIS*
National Remote Sensing Centre - www.nrsc.gov.in, and
Osmania University, Hyderabad, India- <http://www.osmania.ac.in>
- 1996-1998 Master of Science, Botany (major: Plant Physiology), Osmania University, India
<http://www.osmania.ac.in>

Employment

- Dec 2011 **Assistant Professor** - *Lab for Spatial Informatics*, IIIT, Hyderabad, India.
www.iiit.ac.in,
- 2007-2011 **Post Doctoral Research Associate**, *Lab for Spatial Informatics*, IIIT, Hyderabad
www.iiit.ac.in
- 2006-2007 **Assistant Manager**, *Meteorology & Remote Sensing Group*, National Collateral
Management Services Ltd, Hyderabad, India. www.ncmsl.com
- Jan-March 2006 **Senior Programme Officer**, *Landscape Ecology Division*, Salim Ali Centre for
Ornithology and Natural History (SACON), Hyderabad, India.
- Jan-Sept 2005 **Senior Remote Sensing Analyst**, *Agri Net Solutions Ltd*, Hyderabad, India
<http://agrinetsolution.com/>
- 2003-2004 **Field Researcher**, *Aerial Services and Digital Mapping Division*, National
Remote Sensing Centre (NRSC), Hyderabad, India. www.nrsc.gov.in
- 2000-2003 **Researcher**, *Forestry and Ecology Division*, National Remote Sensing Centre
(NRSC), Hyderabad, India. www.nrsc.gov.in

Teaching Courses at IIIT-H

- Spatial Informatics– Monsoon: 2009, 2010, 2011, 2012, 2014 (selected topics)
- Remote sensing– Spring: 2010, 2011, 2012, 2013, 2014-2015, 2015-2016
- Ecological and Geospatial Modeling – Monsoon 2012, 2015
- Environmental Engineering: Monsoon 2014 (selected topics)
- Environmental Sciences: Spring 2015, Monsoon 2015, 2016
- Human Values – 2012, 2013, 2014, 2015, 2016

Research Areas and Interests

- Application of Geospatial Tools in – Forest ecosystem, Island ecology, Climate change, Land use-Land Cover changes, Integrated Water Resource Management (IWRM) studies.
- Capacity building programmes in open source geospatial tools.

Research Projects (Ongoing)

- Canopy spectral biochemical analysis of forest species using hyperspectral remote sensing – a case study from Eastern Ghats forest ecosystems” Principal Investigator, funded by DST, India, June, 2016.

Completed

- Declining forests of Krishna District, Andhra Pradesh – A geospatial, ecological and social assessment of Kondapalli Reserve Forest –Eastern Ghats. Co-Principal Investigator funded by *University Grants Commission*, India, June 2013-17. www.ugc.ac.in/
- Second National Communication (NATCOM) on inventory of Green House Gases – National Land use, land use change and forestry (LULUCF) assessment using satellite data for the States of Uttar Pradesh, Madhya Pradesh and Chattisgarh of India- Principal Investigator. Funded by *NRSC*, ISRO for 2009-2011. www.nrsc.gov.in
- Analysis of spatio-temporal changes of Shamirpet Lake, Hyderabad – Preliminary research to assess lake dynamics & water security: funded by *South Asia Consortium for Interdisciplinary Water Resources Studies (SaciWATERs, UNDP)*. May 2011- Aug 2011. www.saciwaters.org/

Research Consultancy

- Analyzing the changing mangrove vegetation *vis-à-vis* anthropogenic activities – A case study of Krishna Wildlife Sanctuary using geospatial data, for Department of Botany, Maris Stella College, Vijayawada, AP, 2014-15.
- Understanding the changing lake dynamics, its conservation and sustainable management practices – A case study of Brahmayyalingam cheruvu, Agiripalli, Krishna District, for Department of Botany, Maris Stella College, Vijayawada, AP, 2012.
- Human-Bird Conflicts and Management Issues: A Case Study of Birds at Uppalapadu Lake, AP, India, for Maris Stella College, Vijayawada, AP, 2011. www.marisstella.ac.in/

Other Projects

- Paddy acreage estimations for kharif season in Bihar and WB, India, 2007.
- Mapping and analyzing status of wetlands with reference to Gujarat, Kerala, Andhra Pradesh and Tamil Nadu states, India, 2006.
- Satellite based impact evaluation of select major, medium and minor irrigation schemes and performance in agriculture by using satellite remote sensing and field surveys, 2005.
- Biodiversity Characterization in Fambong Lho Wildlife Sanctuary, East District, Sikkim, using Remote Sensing and GIS, 2003.
- Conservation of Ecologically Sensitive Areas - HOTSPOTS- An Integrated Approach through RS & GIS- A Case Study in Fambong Lho Wildlife Sanctuary, Sikkim, 2003.
- Pre-inventory field survey to collect phytosociological data for Air Born Laser Terrain Modeling Studies (ALTM), at Yellapur, Karnataka, 2003.
- Remote sensing and GIS inputs for Kudremukh National Park and “Mookambika and Someshwara Wild life Sanctuaries, Karkala, Karnataka, 2002.
- Protected area management inputs for RajivGandhi National Park, Karnataka, 2002
- RS and GIS based forest working plan inputs for Eastern Assam Circle, 2002
- Complete soil vector database generation at 1: 50, 00,000 scales under IGBP Project for Tamilnadu, Kerala, Karnataka, Maharastra, Goa states, 2002.
- Soil erosion assessment around Baphlimali bauxite mine site of proposed Utkal Alumina project, Orissa, using RS and GIS, 2001.

- Biodiversity Characterization of North Andaman Islands using Remote Sensing and GIS, 2001-2003.

Peer-Reviewed publications

1. Vani.M and **P.Rama Chandra Prasad** 2017. Geospatial Assessment of Spatio-Temporal Changes in Mangrove Vegetation of Pichavaram Region, Tamilnadu, India, in Threats to Mangrove Forests: Hazard, Vulnerability and Management Solutions, Springer, in press.
2. Laxmi goparaju, **P. Rama Chandra Prasad** and Firoz Ahmad. 2017. Geospatial technology perspectives for mining vis-à-vis sustainable forest ecosystems. *Present Environment and Sustainable Development*. 11(1): 219-238
3. **P. Rama Chandra Prasad**, C.V.L.Karuna and J. Asha Kumari 2017. Evaluating mangroves of Krishna wildlife sanctuary in relation to the general status of mangroves in Andhra Pradesh, India. *International Journal of Environmental Studies* 74(2): 214-229 <http://www.tandfonline.com/eprint/y2ntXZam33v4tjN3FXB6/full>
4. **P. Rama Chandra Prasad** and P. Mamtha Lakshmi 2016. Estimation of biomass density and carbon storage in the forests of Andhra Pradesh, India, with emphasis on their deforestation and degradation conditions *European Journal of Ecology* 1(1):52-63. (<http://www.degruyter.com/view/j/eje.2015.1.issue-1/eje-2015-0007/eje-2015-0007.xml?format=INT>)
5. Suresh Babu K.V, Arijit Roy and **P. Rama Chandra Prasad** 2016. Forest fire risk modeling in Uttarakhand Himalaya using TERRA satellite datasets. *European Journal of Remote sensing* 49: 381-395 (IF 1.173)
6. Vaidehi Chhajjar, Sumathi Prabhakar and **P. Rama Chandra Prasad** 2015. Development of an index to assess drought conditions using geospatial data – A case study of Jaisalmer district, Rajasthan, India. *Geoinformatica Polonica*. 14(1): 29-39. <http://www.degruyter.com/view/j/gein.2015.14.issue-1/gein-2015-0003/gein-2015-0003.xml?format=INT>
7. **P. Rama Chandra Prasad** 2015. Climate change research - what do we need really? *Papers on Global Change*, 22, 117–121. (SJR 0.106). <https://doi.org/10.1515/igbp-2015-0019>
8. Slik Ferry. J.W.....**P. Rama Chandra Prasad**etal. 2015 (113 author/170). An estimate of the number of tropical tree species? *Proceeding of National Academy of Sciences of United States of America (PNAS)*. 112 (24): 7472-7477 (IF 9.67). <http://www.pnas.org/content/112/24/7472.abstract>
9. Roy P.S. **P. Rama Chandra Prasad**. et al 2015 (48 author/99). New vegetation type map of India prepared using satellite remote sensing: Comparison with global vegetation maps and utilities. *International Journal of Applied Earth Observation and Geoinformation*. 39: 142-159. (IF 3.47)
10. Rajesh Chaturvedi and **P. Rama Chandra Prasad** 2015. Determining species expansion and extinction possibilities using probabilistic and graphical models. *Ekologia* -34 (2): 111-120 (SJR 0.282) <http://www.degruyter.com/view/j/eko.2015.34.issue-2/eko-2015-0012/eko-2015-012.xml>
11. Kshitij Mishra and **P. Rama Chandra Prasad**. 2015. Automatic Extraction of Water bodies from Landsat imagery using Perceptron Model. *Journal of Computational Environmental Sciences*. <http://www.hindawi.com/journals/jces/2015/903465/>

12. **P. Rama Chandra Prasad** and K.S.Rajan. 2014. Is current forest landscape research approaches providing the right insights? - Observations from Indian context? *Ecological Questions*. 20: 85-92. http://www.eq.umk.pl/images/articles/vol20/eq20_2014_85-92.pdf
13. **Rama Chandra Prasad. P** and J.Asha Kumari 2014. Understanding the changing lake dynamics and its sustainable management practices - A case study from Krishna District, Andhra Pradesh, India. *Sustainable Environment Research* – 24(4): 281-290 (IF.0.7) <http://140.116.228.7/download/24-4/24-4-5.pdf>
14. Raghvendra Singh and **P. Rama Chandra Prasad** 2014. Interpolation of data gaps of SLC-Off Landsat ETM+ Images using algorithm based on the differential operators. *Journal of Applied Computer Science Methods*. 6 (2): 93-100. <http://www.degruyter.com/view/j/jacsm.2014.6.issue-2/jacsm-2015-0001/jacsm-2015-0001.xml>
15. Stutee Gupta and **P.Rama Chandra Prasad**. 2013. Analysis of tree diversity patterns in the tropical evergreen and moist deciduous forests of the Middle Andaman Islands, India. *Journal of Biodiversity Management and forestry* –2:3. doi:10.4172/2327-4417.1000114 (IF.0.38).
16. Anubhav Chaturvedi and **P. Rama Chandra Prasad**. 2013. Application of fractal geometry in determining optimal quadrat size for vegetation sampling. *Current Science* – 105(9): 1275-1281 (IF.0.926) <http://www.currentscience.ac.in/Volumes/105/09/1275.pdf>
17. **Rama Chandra Prasad. P**, P.Mamtha Lakshmi, K.S.Rajan, Vijaya Bhole and C.B.S.Dutt (2012). Tsunami and tropical Island ecosystems – a meta-analysis of the studies in Andaman and Nicobar Islands. *Biodiversity and Conservation*- 21(2):309-322 (IF-2.365) <http://link.springer.com/article/10.1007%2Fs10531-011-0191-0>
18. **Rama Chandra Prasad. P** and **C.B.S. Dutt**. 2012. Community classification and species assemblage limit within the forest of North Andaman Islands – *Tree and Forestry Science and Biotechnology* – 6(1): 116-121. http://www.globalsciencebooks.info/JournalsSup/12TFsB_6_S11.html
19. **Rama Chandra Prasad. P**, J.Asha Kumari, Manju Mathew and Rosina Thomas. 2012. Human-bird conflicts and management issues – A case study of birds at Uppalapadu Lake, Andhra Pradesh, India. *International Journal of Zoology* – 1-9 doi:10.1155/2012/848757. <http://www.hindawi.com/journals/ijz/2012/848757/>
20. **Rama Chandra Prasad. P**. 2011. Ecological analysis of Dipterocarpaceae of North Andaman forest, India. *Journal of Plant Development* – 18:139-145. <http://www.plant-journal.uaic.ro/docs/2011/18.pdf>
21. **Rama Chandra Prasad .P**, K.S.Rajan and J. Asha kumari 2011. Endangered forest ecosystem of Eastern Ghats – need for conservation of Kondapalli forest. *IUP Journal of Life Sciences*- 5(4): 40-45.
22. **Rama Chandra Prasad, P.** K. S. Rajan, C.B.S Dutt and P.S.Roy.2010. A conceptual framework to analyse the Land-use / land-cover changes and its impact on phytodiversity – A case study of North Andaman Islands, India. *Biodiversity and Conservation*.19(11):3073-3087.(IF-2.365) <http://www.springerlink.com/content/h48n576106k09485/fulltext.pdf>
23. **Rama Chandra Prasad. P**, Nidhi Nagabhatla, and C.B.S.Dutt 2010. Intra-variability analysis in the heterogeneous tropical island system of South Asia.: 223-230. *In recent trends in biodiversity of Andaman and Nicobar Islands*, 1-542 (Published by the Director, Zool. Surv. India, Kolkata)

24. **Rama Chandra Prasad.P.**, Nidhi Nagabhatla, C. S. Reddy, Stutee Gupta., K.S.Rajan, S.H.Raza and C.B.S.Dutt. 2010. Assessing forest canopy closure in a geospatial medium to address management concerns for Tropical Islands – South East Asia. *Environmental Monitoring and Assessment* – 160: 541-553. (IF-1.679) <http://www.springerlink.com/content/jm63518uw519366q/fulltext.pdf>
25. **Rama Chandra Prasad. P.**, Chiranjibi Pattanaik, S. N. Prasad and C.B.S.Dutt. 2010. Analysis of spatial and temporal changes in mangroves along Mumbai coast using remote sensing and GIS. *IUP Journal of Environmental Sciences*. 4 : 52-59.
26. **Rama Chandra Prasad.P.**, Chiranjibi Pattanaik and S.N. Prasad 2010. Assessment and monitoring of wetland dynamics in Andhra Pradesh using remote sensing and GIS. In **Biodiversity and Sustainable Livelihood**, (ed.) Lingaraj Patro, Discovery Publishing House, New Delhi, pp. 73-86.
27. Asha kumari. J, **P. Rama Chandra Prasad** and K. B. Reddy 2010. Competitive Exclusion of *Parthenium hysterophorus* by other Invasive Species - A Case Study from Andhra Pradesh, India. *Taiwania – International Journal of Life Sciences*. 55 (2): 128-138. (SJR 0.26) <http://tai2.ntu.edu.tw/taiwania/pdf/tai.2010.55.2.128.pdf>
28. **Rama Chandra Prasad, P.** Ch. Sudhakar Reddy, P.Vijaya kumari, R.K.Varalakshmi, S.H.Raza and C.B.S.Dutt. 2009. Vegetation structure and ecological characteristics of forest of North Andaman Islands, (India). *Biological Letters*. 46(2): 105–121 (IF-0.16) <http://www.degruyter.com/view/j/biolet.2009.46.issue-2/v10120-009-0006-0/v10120-009-0006-0.xml>
29. **Rama Chandra Prasad. P.**, C. Sudhakar Reddy, K.S.Rajan, S.H.Raza and C.B.S.Dutt. 2009. Assessment of Tsunami and Anthropogenic Impacts on the forest of the North Andaman Islands, India. *International Journal of Remote Sensing*- 30 (5) 1235 – 1249. (IF-1.652)
30. **Rama Chandra Prasad.P**, A.N. Sringswara, Ch. Sudhakar Reddy, Nidhi Nagabhatla, K.S.Rajan, A. Giriraj, M.S.R.Murthy, S.H.Raza and C.B.S.Dutt 2009. Assessment of forest fragmentation and species diversity in North Andaman Islands (India) – A geospatial approach. *International Journal of Ecology and Development*, 14:33-46. <http://www.ceser.res.in/ceserp/index.php/ijed/article/view/102>
31. **Rama Chandra Prasad, P.**, Ch. Sudhakar Reddy, R.K.Varalakshmi, P.Vijaya kumari and S.H.Raza 2009. Angiosperms of North Andaman forest, Andaman and Nicobar Islands, India. *Check list: Journal of species list and distribution* 5(2): 254–269. <http://www.checklist.org.br/getpdf?SL133-08>
32. Nidhi Nagabhatla, **Rama Chandra Prasad** and P.S. Roy. 2009. Community Pattern Assessment for Grassland Ecosystem in Nicobar Islands: South Asia. *Nepal Journal of Forestry*. 9 (1) :1-11
33. **Rama Chandra Prasad, P.**, K. S.Rajan, Vijaya Bhole, and C.B.S.Dutt 2009: Is rapid urbanization leading to loss of water bodies? *Journal of spatial science*. 2(2): 43-52.
34. **Rama Chandra Prasad, P.** C. Sudhakar Reddy, S.H. Raza and C.B.S. Dutt. 2008. Population structure, age gradations and regeneration status of *Pterocarpus dalbergioides* Roxb, an endemic species of Andaman Islands, India. *Pacific Journal of Science and Technology*, 9(2): 667 – 673. http://www.akamaiuniversity.us/PJST9_2_667.pdf
35. **Rama Chandra Prasad. P.** C. Sudhakar Reddy, S.H. Raza and C.B.S.Dutt 2008. Folklore medicinal plants of North Andaman, India. *Fitoterapia*, 79:458–464.(IF-2.345) <http://www.ncbi.nlm.nih.gov/pubmed/18534778>

36. **Rama Chandra Prasad, P.**, Ch. Sudhakar Reddy and C.B.S.Dutt. 2008. *Phytodiversity Zonation in North Andaman Islands, India using remote sensing, GIS and Phytosociological data. Research Journal of Environmental Sciences*, 2 (1): 1-12.
<http://www.academicjournals.net/fulltext/rjes/2008/1-12.pdf>
37. **Rama Chandra Prasad. P.**, S.H.Raza, C. Sudhakar Reddy and C.B.S.Dutt; 2008. Euphorbiaceae of North Andaman Forest – An Ecological and Phytosociological perspective. *The Journal of Indian Botanical Society*. 87 (1&2):99-104
38. Reddy, C.S. and **P. Rama Chandra Prasad**. 2008. Tree flora of Saddle Peak National Park, Andaman, India. *Journal of Plant Sciences*, 3 (1) 1-17.
<http://www.academicjournals.net/fulltext/jps/2008/1-17.pdf>
39. Reddy, C.S., **Rama Chandra Prasad.P** & Dutt, C.B.S. 2008. Additions to the Flora of Andaman & Nicobar Islands, India *J. Bombay Nat. Hist. Soc.* 104(3): 379-382
40. Sudhakar, S. **Rama Chandra Prasad. P**, M.L.Arrawatia, K. Sudha, Shilpa Babar and S. K. S. V. Rajeshwar Rao. 2008. Landscape Analysis in Fambong Lho Wildlife Sanctuary, East district, Sikkim, India using Remote Sensing and GIS Techniques. *Journal of the Indian society of remote sensing*. 36 (2): 203-216. (IF-0.764)
<http://www.springerlink.com/content/5677j31855q48914/fulltext.pdf>
41. **Rama Chandra Prasad. P**, Ch. Sudhakar Reddy, G.Rajasekhar and C.B.S.Dutt; 2007. Mapping and Analyzing Vegetation Types of North Andaman Islands, India. *GIS Development- 1st January 2007 Vol.3 (1)*.
http://www.gisdevelopment.net/application/nrm/overview/over004_1.htm
42. **Rama Chandra Prasad, P.**, Ch.Sudhakar Reddy, and C.B.S.Dutt; 2007 Phytodiversity Assessment of Tropical Rainforest of North Andaman Islands, India. *Research Journal of forestry*, 1 (1) 27-39. <http://www.academicjournals.net/fulltext/rjf/2007/27-39.pdf>.
43. Reddy, C.S., E.N. Murthy, **P. Rama Chandra Prasad** and V.S. Raju. 2007. *Crotalaria wildenowiana* DC. subsp. *varmae*, a new taxon from Andaman, India. *International Journal of Botany*. 3 (4): 398-400. <http://www.ansijournals.com/ijb/2007/398-400.pdf>
44. Reddy, C.S., **P. Rama Chandra Prasad**, M.S.R. Murthy and C.B.S. Dutt, 2004. Census of endemic flowering plants of Andaman and Nicobar Islands. *J. Econ. Tax. Bot.* 28 (3): 712-728.
45. M.C, Porwal, B.K Ranganath, M.G Rajshekhar, Stutee Gupta, Nidhi Chauhan, Hitendra Padalia, **Rama Chandra Prasad .P**, N. Pradeep and P.S Roy. 2003. *Geospatial Characterization of Biodiversity at Landscape Level in Andaman Islands, India*. In *Geoinformatics for tropical ecosystems* (ed.) P.S.Roy, 2003. Pp

Under Communication:

46. Sushma Reddy D. and **P. Rama Chandra Prasad**. Prediction of vegetation dynamics using NDVI time series data and LSTM. *Environmental Monitoring and Assessment*.
47. Salghuna N.N and **P. Rama Chandra Prasad**. Mapping mangrove species using hyperspectral data - a case study of Pichavaram mangrove ecosystem, Tamilnadu. *Earth System and Environment*.
48. Suresh Babu K., Arijit Roy and **P. Rama Chandra Prasad**. Forest Fire Danger Index based on static and dynamic parameters using satellite datasets for Uttarakhand state, India. *Earth Science Informatics*

News Letter

1. **Rama Chandra Prasad. P.**, Gaikwad, S. and Prasad, S. N. 2006 *Biodiversity and Conservation of Riverine Ecosystems of India*. SAROVAR SAURABH Newsletter, Vol-2, No-1, pp 1-6.
2. Reddy, C.S. Reddy, K.N., **P. Rama Chandra Prasad** & V.S. Raju. 2003. *Threatened Endemic plants from Eastern Ghats*. EPTRI Newsletter, Hyderabad
3. Prasad, SN, **Prasad, R.C.**, Pattanaik, C., and Giriraj A. 2007. *A benchmark spatial database of wetlands of selected states of India*. A Report to ENVIS, Ministry of Environment and Forests, Govt of India

Conference / Proceedings/workshop/Seminars

49. Suresh Babu K. V., **Rama Chandra Prasad** and Arijit Roy: "New approach to detect active forest fires based on MODIS TERRA satellite datasets" FOSS4G Asia 2017, January, 26-29, 2017.
50. Mayank Agarwal, Devireddy Sushma Reddy, **Rama Chandra Prasad** 2016. Automatic extraction of mangrove vegetation from optical satellite data. ISPRS XXIII congress, Prague, 12-19th July, 2016. Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XLI-B8, 555-561, 2016. <http://www.int-arch-photogramm-remote-sens-spatial-inf-sci.net/XLI-B8/555/2016/doi:10.5194/isprs-archives-XLI-B8-555-2016>
51. K. V. S. Babu, A. Roy and **Rama Chandra Prasad** 2016 "Developing the static fire danger index using geospatial technology," 2nd International Conference on Contemporary Computing and Informatics (IC3I), Greater Noida, India, 2016, pp. 558-563. doi:10.1109/IC3I.2016.7918026
<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7918026&isnumber=7917923>
52. Suresh, Babu K. V., Arijit Roy, **Rama Chandra Prasad P.** 2016. Forest fire danger index based on modifying Nesterov Index, fuel, and anthropogenic activities using MODIS TERRA, AQUA and TRMM satellite datasets. in: Land Surface and Cryosphere Remote Sensing III, edited by Reza Khanbilvardi, Ashwagosh Ganju, A. S. Rajawat, Jing M. Chen, Proc. of SPIE Vol. 9877, 98771A, 2016 SPIE. <http://dx.doi.org/10.1117/12.2222738>
53. Suresh Babu K. V., Arijit Roy and **P. Rama Chandra Prasad** 2016 "Developing Forest fire danger index for Uttarakhand state based on modifying Nesterov Index, fuel and anthropogenic activities using MODIS TERRA and TRMM satellite datasets" presented at SPIE Asia – Pacific Remote Sensing, April 4–7, 2016.
54. Suresh Babu K. V., Arijit Roy and **P. Rama Chandra Prasad**: 2015 "Adaption of McArthur fire danger index based on automatic weather stations data and MODIS TERRA satellite datasets for Madhya Pradesh state, India", presented at the National seminar on climate change, resources, Bio-diversity & Environmental challenges: Issues and strategies for sustainable development, HNB Garhwal University, Srinagar, 28-30 October, 2015.
55. Suresh Babu K. V., **P. Rama Chandra Prasad** and Arijit Roy: "Forest fire weather based danger rating for the state of Madhya Pradesh" presented at FOSS4G India 2015, 8-10 June, 2015.
56. Suresh Babu K. V., Arijit Roy and **P. Rama Chandra Prasad**: 2015 "Fire Potential Index for Uttarakhand using daily MODIS TERRA satellite datasets" published in Proceedings of National Conference on Open Source GIS: Opportunities and challenges, pp. 95-103. ISBN:978-81-931-2500-7

57. **P. Rama Chandra Prasad** 2015. *Geospatial Assessment of shoreline changes and mangrove dynamics of Krishna delta, Andhra Pradesh*. National Research Meet 5th – 7th November, Visakhapatnam, organized by EGREE foundation, Kakinada, AP.
58. Avinash Shinde, **P. Rama Chandra Prasad**, M. Raja Gopal, J. Asha Kumari 2015. *Geospatial assessment of land use and land cover changes in and around Kondapalli Reserve Forest, Vijayawada, Andhra Pradesh*. In National Seminar on sustainable environment through green energy. Feb 27-28, 2015, Andhra Loyala College, Vijayawada.
59. **Rama Chandra Prasad. P** and Japamalai 2015. *Mapping of indigenous ornamental fishes of West Bengal using open source GIS*. Three day National seminar on “Recent trends and practices in ornamental fishery with special emphasis on promotion of women entrepreneurship in aquaculture” 22-24th January, 2015. Andhra Loyala College, Vijayawada.
60. **Rama Chandra Prasad. P** and Nitya Jeevapada 2015. *Retrieving and mapping genetic information of ornamental fishes using GIS*. National seminar on “Recent trends and practices in ornamental fishery with emphasis on promotion of women entrepreneurship in aquaculture” 22-24th January, 2015. Andhra Loyala College, Vijaywada.
61. **Rama Chandra Prasad. P** and Lalitha Prakash 2015. *Geospatial perspective of mapping genetic, species and ecological diversity for conservation implications*. National symposium on Conservation of nature and natural resources. 21-22nd January, 2015, Government Degree and PG College, Wanaparthy, Mahabubnagar, Telangana.
62. **Rama Chandra Prasad. P** M. Raja Gopal, J. Asha Kumari, C. V .L. Karuna 2015. *Geospatial assessment of mangrove dynamics – A case study of Krishna Wildlife Sanctuary*. In 2 day State level Seminar on Mangrove ecosystems of Andhra Pradesh. 8-9th January, 2015. P.R.Govt.College, Kakinada, Andhra Pradesh, India.
63. **Rama Chandra Prasad .P** and C. V. L. Karuna 2015. *Implementation of Geographical Information System (GIS) in mapping spatial distribution of species genetic variation*. International conference on Genomic and Stem cells. Jan 6-7, 2015, KBN College, India.
64. **Rama Chandra Prasad .P** and P.Mamtha Lakshmi 2014. Analyzing the Status of Carbon and Biomass in the Forests of Andhra Pradesh State, India in Relation to their Current Deforestation Trends. In REDD+ Symposium: Carbon Emission Reductions and Removals in Tropical Forests. 22-23 February, 2014, Kobe, Japan.
65. **Rama Chandra Prasad. P** and K.S.Rajan. 2014. *Approaches for assessment of forest landscape – Is current research providing the right insights?* In UNDP sponsored workshop on “Landscape approach to conservation and natural resource management: Identifying capacity gaps in India, 15-16 January, 2014, Indian Institute of Forest Management, Bhopal, India.
66. S.N.Prasad, K.S.Rajan, K.S.R.C.Murthy and **P. Rama Chandra Prasad**. 2014. *Landscape Level Management of Biodiversity: Role of Open Source Geospatial Technology*. In UNDP sponsored workshop on “Landscape approach to conservation and natural resource management: Identifying capacity gaps in India, 15-16 January, Indian Institute of Forest Management, Bhopal, India.
67. Rajesh Chaturvedi, Kshitij Mishra, **P Rama Chandra Prasad**, K S Rajan 2013. *Spatial Analysis of Indian railways*. India Geospatial Forum, 22-24 January, 2013, Hyderabad. <http://www.geospatialworld.net/Regions/ArticleView.aspx?aid=30476>

68. **Rama Chandra Prasad, P** 2011. *Assessment of the impact of tsunami on Andaman and Nicobar islands – Review*. Oral presentation at National Seminar on Geospatial Database for Natural Disaster Management and Planning, 25-26 March, 2011, Department of Geography, Osmania University, Hyderabad.
69. SaiDeepak, K S Rajan and **P Rama Chandra Prasad**. 2010. Haze Detection using Visible Bands of MODIS images, Proceedings of ISRS National Symposium on GIS and Remote Sensing in Infrastructure Development. Pune, India. December 1-3, 2010.
70. Vaibhav Kedia, K S Rajan and **P Rama Chandra Prasad**. 2010. Identification of plantation within forest canopy using MODIS time series data, Proceedings of ISRS National Symposium on GIS and Remote Sensing in Infrastructure Development. Pune, India. December 1-3, 2010.
71. **Rama Chandra Prasad, P.**, K. S.Rajan, Vijaya Bhole, and C.B.S.Dutt. 2009. *Water bodies and Urbanization – a case study of Hyderabad city, India* IHDP Open Meeting, 26-30 April, 2009; Bonn, Germany.
72. **Rama Chandra Prasad, P.**, and S.H.Raza.2008. *Effect of Tsunami disaster on mangrove and littoral forest of North Andaman Islands*. World Congress on Disaster Management, October 21-24, 2008. National Academy of Construction, Cyberabad, India
73. **Rama Chandra Prasad. P** and S.N. Prasad. 2007. *Wetland Inventory for 1990-1992 for Kerala using Landsat Thematic Mapper data*. Kerala Environment Congress, 2007 pp 309-311.
74. **Rama Chandra Prasad. P.**, Chiranjibi Pattanik and S. Narendra Prasad 2008. *Wetland inventory and the dynamics in Karnataka – a geospatial approach*. Full paper on LAKE 2008 proceeding; 22-24 Dec 2008- Indian Institute of Science, Bangalore.
75. **Rama Chandra Prasad. P.**, Chiranjibi Pattanaik and S, Narendra Prasad 2008. *Wetlands as components of green growth: a case study of Gujarat wetland resources using remote sensing and GIS*. International Conference on green growth, 17-18 Dec, 2008, IBS-Hyderabad.
76. **Rama Chandra Prasad.P.**, Sudhakar Reddy. Ch., Mamtha Lakshmi. P, Vijaya Bhole and Dutt. C.B.S (2006). *Spatial and Temporal effects of Tsunami on coastal vegetation and human habitations of North Andaman Islands*. Indian Geographical Society Conference Publication, International Conference on Natural Hazards and Disasters – Local to Global Perspectives, November 25-27, Sri Krishnadevaraya University, Anantapur and The Indian Geographical Society University of Madras, Chennai, India.

Invited Talks

1. “*Geospatial tools in resource management and planning*” in Three Day Residential Training Programme on “Geo-Spatial Intelligence and The Geo-Spatial Revolution” at AP HRDI, Bapatla from 20 - 22 (Wed – Fri), July, 2016.
2. “*Save our sparrows*” awareness talk at KBN College, Vijayawada, 19th March, 2016, on the occasion of world house sparrow day (20th March, 2016)
3. “*Spatial Modeling*” - APN capacity building programme IIIT-H, 1st March, 2016
4. *Role of Geospatial tools in Understanding ecosystems towards Biodiversity distribution and Conservation*- APN capacity building programme IIIT-H, 29th Feb, 2016.
5. *Biodiversity Conservation from known to unknown-a geospatial approach*- KBN College, Vijayawada, 1st Feb, 2016

6. *Scope and potentiality of free and open source geospatial tools in biodiversity conservation*- An awareness talk as part of APN sponsored project conducted at FIP (Pondicherry), Indian Institute of Sciences (Bangalore) and Salim Ali foundation (Kerala) 19-24, August, 2015.
7. *Applications of remote sensing and GIS* – talk for PG students of Environmental Sciences, Acharya Nagarjuna University, Guntur on 27th February, 2015.
8. *Geospatial tools in disaster management* – in workshop on disaster management conducted by Global Institute of Engineering Technology, Moinabad, Ranga Reddy District, India, 28th January, 2015.
9. *Monitoring and mapping ornamental fishes – use of geospatial tools*. Three day National seminar on “Recent trends and practices in ornamental fishery with special emphasis on promotion of women entrepreneurship in aquaculture” 22-24th January, 2015. Andhra Loyala College, Vijayawada.
10. *Managing mangrove ecosystems using earth observation tools* - In 2 day State level Seminar on Mangrove ecosystems of Andhra Pradesh. 8-9th January, 2015. P.R.Govt.College, Kakinada, Andhra Pradesh, India.
11. *Comprehend linkage between spatial informatics and GIS* – In International conference on Genomic and Stem cells. Jan 7, 2015. KBN College Vijayawada, AP, India.
12. *Utility of geospatial tools in plant studies – a neophyte perception* – at Bhavans New Science college, Hyderabad on 13th November, 2014.
13. *Environmental Economics* – conducted by Department of Economics, Maris Stella College, Vijayawada on Sept 16, 2014, in view of Ozone depletion day.
14. *GIS and Remote sensing – A beginners perspective* – GITAM, Hyderabad, April 8, 2014
15. *Basics and applications of geospatial tools* – 1-day seminar on March 15, 2014 at Global Institute of Engineering Technology, Moinabad, Ranga Reddy District, India.
16. *Is GIS just a mapping tool?* At Freedom Fest 2014, Nagarjuna University, Guntur, India on 8th March, 2014, organized by SWECHA, a group promoting free software movement in India (FSMI).
17. *Natural Resource Accounting*. An overview lecture to the professionals of Center for Environmental and Geographic Information Services (CEGIS), Ministry of Water Resources, Dhaka, Bangladesh, at EPTRI, Hyderabad, on 6th Marc, 2014.
18. *Geometric Features and GIS representation models* – In winter school on “Open Source Development of Geospatial Technology – community level planning” 27th Jan, 2014, IIT-Hyderabad
19. *Geospatial tools in Civil engineering Applications*; In Build India - A winter camp for undergraduate civil engineers conducted at Earth Quake Engineering Research Center, IIT-Hyderabad – on 11th December, 2013
20. *Open source geospatial tools for ecological and hydrological studies* – 27th July, 2012 at FERAL, Pondicherry.
21. *Understanding the research scope of Bioinformatics with other allied sciences*, in 3 days national seminar and workshop on “Basics and Languages of Bioinformatics” on 27th March, 2012.held at Department of Biotechnology, Nagarjuna University, Guntur, AP.
22. *Emerging trends in Bioinformatics – Utility of Spatial Informatics*, in two days national seminar on “Role of Bioinformatics in understanding modern biology” on 12th December, 2011held at SVRM College, Nagaram, Guntur, AP.

23. *Geospatial tools for Natural Resource Management* – at Stella Maris College, Vijayawada on 9th December, 2011.
24. *Focus on studies linking biotechnological aspects with geospatial techniques*, in two days national seminar on “Youth towards new trends in Biotechnology” on 27th August, 2011 at Stella Maris College, Vijayawada.
25. *Overveiw of Green Accounting* – guest lecture in one week training programme on Environmental Economics and Natural Resource Accounting for Indian Forest Service Officers at EPTRI, Hyderabad on 9th August, 2011.
26. *Impact of anthropogenic and natural factors on the phytodiversity of North Andaman Islands..* National seminar on “Advances in Plant Sciences – Current status and emerging trends”. 30th March, 2010. Department of Botany, P.G. College of Science, Osmania University, Saifabad, Hyderabad.

Training Imparted

1. Resource person for Hands on training on **ILWIS** in DST sponsored 21day winter school on geospatial technologies at Chitkara University, Pinjore, Himachal Pradesh, 5th and 6th Dec, 2017.
2. Resource person for one week stakeholder training programme on “Capacity building workshop on geospatial data management for Biodiversity conservation in Western Ghats for Kerala, Tamilnadu and Karnataka states” jointly organized by OSGeo-India and IIIT-H, June 20th -25th, 2016, funded by Asia Pacific Network
3. Resource person for one week stakeholder training programme on “Capacity building workshop on geospatial data management for Biodiversity conservation in Western Ghats for Goa, Giujarat and Maharastra states” jointly organized by OSGeo-India and IIIT-H, Feb 29th -5th March, 2016, funded by Asia Pacific Network
4. Resource person in two weeks training programme on “Capacity building workshop on geospatial data management for Biodiversity conservation in Western Ghats” jointly organized by OSGeo-India and IIIT-H, 8th -19th December, 2015, funded by Asia Pacific Network.
5. Resource person for Hands on training on **OpenJump** and **ILWIS** software in five days workshop on “Free and Open Source Geospatial Technologies (FOSS4G) for Urban Environment Applications (mapping, inventorying and Monitoring)” 1st to 5th April,2015 organized at Indian Institute of Sciences, Bangalore, India.
6. Resource person for Hands on training on **OpenJump** in two days workshop on “Real time GIS” held at Geography Department, Central University of Gulbarga, Karnataka, 16th February, 2015.
7. Resource person for Hands on training on **OpenJump**, in five days training workshop on “Western Ghats Biodiversity using Free and Open Source Geospatial (Foss4g) Tools” 24th and 25th February, 2014, organized at Indian Institute of Sciences, Bangalore, India.
8. Resource person for Hands on training on **ILWIS and OpenJump** in two days workshop “Frontiers in Geospatial technology” on 1st and 2nd July, 2013, organized by Department of Geography, Central University of Karnataka, Gulbarga.
9. Resource person for Hands on training on **ILWIS** during 21 days “Summer Training Programme on Geospatial Technology and Applications under NRDMS Programme in DST, Govt. of India”, Summer School – GEOMATICS-2012, organised in the Department of Geography, The University of Burdwan, Burdwan- 18th May, 2012.

10. Trained students of Centre for Space Science and Technology Education in Asia and the Pacific, IIRS campus, Dehradun on **OpenJump (GIS)** - 2nd April, 2012
11. Given one day training on **OpenJump (GIS)** software at Indian Society of Remote Sensing (ISRS), Bhopal National Symposium on “Empowering rural India through space technology” – 6th November, 2011 at Bhopal.
12. Delivered lectures on **OpenJump (GIS)** software for EDUSAT Programme lab sessions conducted by IIRS, Dehradun from 6th -9th September, 2011.
13. Conducted three days training programme (6th – 8th January, 2011) on **ILWIS** software (RS-Image processing) for IOWA university students at Department of Geoinformatics, Gandhi Gram Rural University, Madurai.
14. Team member for conducting training workshop (9-12th April, 2011) on “Open source Geospatial Tools in Integrated Water Resource Management (IWRM)”, using **SAGA (GIS)** software held at International Institute of Information Technology, Hyderabad.

Training Attended

1. XTBG-OTS Climate Change Field course: The ecology of climate change in the tropics and sub-tropics, 16 June-16-July, 2014, at Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, Yunnan, **China** in collaboration with Organization of Tropical Studies, US.
2. DST (Department of Science and Technology) sponsored National Workshop on Hyperspectral Remote sensing and Applications, M.S.University, Vadodara, Gujarat, **India**, January 17-18, 2013
3. Use of Earth Observations Tools in Support of Integrated Water Resource Management: Training of Trainers Workshop, ITC-Enschede, **Netherlands**, Dec 3-7, 2012.
4. Workshop on “Integrated Water Resource Management in Drought Risk Management” September 10-14, 2012, Nairobi, **Kenya**
5. Predicting soil carbon in view of global warming and climate change- NAIP sponsored training programme at NBSS&LUP Nagpur, **India**, 24 Feb – 8 March, 2012.
6. Training of Trainers Course on Capacity Building in Integrated Lake Basin Management and Workshop on Capacity Building Needs Assessment - 28 Nov-3 Dec 2011, Chiangmai, **Thailand**.
7. Workshop on Data analysis in Social Sciences Research, using IBM SPSS, on 6th and 7th April, 2011 at Central Facilities for Research and Development, OU, Hyderabad, **India**.

Member

- Global Island Plant Conservation Network (GIPCN) - 2010
- Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEEES) - 2010
- Commission on Ecosystem Management (Ecosystem Approach, Island Ecosystem, Ecosystem Restoration groups)-2012
- South Asia Consortium for Interdisciplinary Water Resource Studies (SaciWATERS) - CapNet Network (SCaN)-2011
- Indian Society of Remote Sensing - 2012
- Open Source Geospatial India (OSGeo-India) – Council member - 2011
- Member, Board of Studies, Department of Botany, Maris Stella College, Vijayawada AP - 2014.

Other

- Organizing Secretary of International Conference “FOSS4G ASIA 2017”-Empowering communities through geospatial Innovation from 26th-29th Feb, 2017 at IIIT-Hyderabad, India.
- Organized a two day workshop on “Role of open source geospatial tools in natural resource management” on 14th and 15th July, 2016 at Siddhartha Mahila Kalasala, Vijayawada.
- Conducted a two day workshop -“Awareness programme on application of geospatial technology for academia from Botany, Zoology and Environmental studies” 2nd -3rd February, 2016 in collaboration with Maris Stella College, Vijayawada.
- Convener for the First National Conference on *Open source geospatial resources to spearhead development and growth*, IIIT-H, October 25-27, 2012.
- Coordinator for the Second National Conference on *Open source geospatial tools in climate change research and natural resource management*, Dehradun, June, 8-10, 2015.
- Medical warden, B Tech Project Coordinator
- Current students enrolled for Master’s (1) and Ph. D (5)