

G E V I N

S O L U T I O N S

Ongoing Projects

- Geospatial survey of Tsunami affected area in coastal areas of Kollam, Alleppey and Kochi district of Kerala – funded by RSI Softech for INOCIS, Department of Earth Sciences, Government of India. Duration: 1.5 years
- Developing a Marine turtle Information System along the Kerala Coast – funded by WWF India. Duration: 4 months.
- Decision Support System for pipeline utility network management funded by Tata Consultancy Services for Kerala Water Authority. Duration 6 months
- Groundwater regime of Vamanapuram river basin, Kerala funded by AGES, Thiruvananthapuram. Duration 6 months
- Information and Knowledge dissemination awareness programs funded by Kerala Agriculture University, Kerala Veterinary and Animal Sciences University, and Amrita University, Kerala, College of Engineering Trissur, College of Engineering, Trivandrum, School of Environmental Studies, CUSAT.
- Training Programs in Geomatics (in-house and outhouse training programs)
- Internship program – Anna University, Amritha Viswapeedam-Amritha University, Marian Engineering College, College of Engineering- Thiruvananthapuram, Government Engineering College, Barton Hill - Thiruvananthapuram

Completed Projects

- 'Landuse/ Landform alterations due to Laterite Mining and Quarrying in Kerala and its Environmental Changes' using GIS and RS approach. Funded by WWF India. Duration: One year
- GIS based mapping of Ayurvedic centres in Thiruvananthapuram district. Funded by Indian System of Medicine, Department of Ayush, Government of Kerala. India. Duration: 6 months
- Consultancy Services to AGES, Thiruvananthapuram for Jananidhi project, Govt. of Kerala. Duration: 3 months.
- Training on GIS and Remote Sensing for Government College of Engineering Thrissur, M Tech Students in Hydroinformatics conducted at KFRI, Thrissur. Duration 3 weeks.
- Training on GIS and Remote Sensing for Agriculture University – Vellayani and Mannuthi. Duration 1 month.
- Landuse Landcover alteration of Sobha City land in Puzhakkal, Thrissur, Kerala. Duration 3 months.
- Time series analysis and Vegetation classification – Vazhachal forest division and Parambikulam tiger reserve funded by WWF India. Duration: 3 months

Research Publications

- R. S. Ajin, Ana-Maria Loghin, Vinod P.G. and Mathew K. Jacob (2018); Flood hazard zone mapping in the tropical Achankovil River Basin in Kerala state, India: A study using RS and GIS techniques, Journal of Wetlands Biodiversity.
- Nair H. C., Padmalal D., Joseph A. and Vinod P. G. (2018). Hydrogeochemistry and water quality assessment of shallow aquifers in the western flanks of Southern Western Ghats, SW India., Arabian Journal of GeoSciences, Springer.
- Nair H. C., Padmalal D., Joseph A. and Vinod P. G. (2017). Delineation of groundwater potential zones in river basins using geospatial tools - an example from Southern Western Ghats, Kerala, India, Journal of Geovisualization and Spatial Analysis, Springer.
- Vinod P G (2017) Development of topographic position index based on Jenness algorithm for precision agriculture at Kerala, India. Spatial Information Research 25:381-388.Springer.
- H. S. Veena, R. S. Ajin, Ana-Maria Loghin, Rabina Sipai, P. Adarsh, Arya Viswam, P. G. Vinod, Mathew K. Jacob and M. Jayaprakash (2017) Wildfire risk zonation in a tropical forest division in Kerala, India: A study using geospatial techniques, International Journal of Conservation Science, 8(3), P. 475-484.
- R. S. Ajin, Ana-Maria Loghin, Vinod P.G. and Mathew K. Jacob (2017) Mapping of forest fire risk zones in Peechi-Vazhani Wildlife Sanctuary, Thrissur, Kerala, India: A study using geospatial techniques. Journal of Wetlands Biodiversity, 7, P. 7-16.
- R. S. Ajin, Ana-Maria Loghin, Vinod P.G. and Mathew K. Jacob (2017) The risk analysis of potential forest fires in a Wildlife Sanctuary in the Western Ghats (Southwest Indian Peninsula) using geospatial techniques, International Journal of Health System and Disaster Management, 5(1), pp. 18-23.
- R. S. Ajin, Ana-Maria Loghin, Vinod P.G. and Mathew K. Jacob (2016) Forest fire risk zone mapping using RS and GIS techniques: A study in Achankovil forest division, Kerala, India. Journal of Earth, Environment and Health Sciences, 2(3), PP. 109-115.
- R. S. Ajin, Ana-Maria Loghin, Vinod, P. G., Mathew K. Jacob and R. R. Krishnamurthy (2016), Landslide susceptible zone mapping using ARS and GIS techniques in selected taluks of Kottayam district, Kerala, India. International Journal of Applied Remote Sensing and GIS, 3(1), pp. 16-25.
- R. S. Ajin, Ana-Maria Loghin, Vinod P. G. and Mathew K. Jacob (2016), Forest fire risk zone mapping in Chinnar Wildlife Sanctuary, Kerala, India: A study using geospatial tools. Journal of Global Resources, 3, pp. 16-26.
- Vinod P G, Ajin R S, Mathew K Jacob. (2016). RS and GIS Based Spatial Mapping of Forest Fires in Wayanad Wildlife Sanctuary, Wayanad, North Kerala, India. International Journal of Earth Sciences and Engineering. ISSN 0974-5904, Volume 09, No. 02 498-502
- Ajin R S, Ana-Maria Loghin, Alina Karki, Mathew K. Jacob and Vinod P.G. (2016). Delineation of forest fire risk zones in Thenmala forest division, Kollam, Kerala, India: A study using Geospatial tool. J. Wetlands Biodiversity (2016) 6: 175 - 184
- Ajin R S, Ana-Maria Loghin, Mathew K. Jacob and Vinod P.G. (2016). RS and GIS based forest fire risk zone mapping in the Periyar tiger reserve, Kerala, India. J. Wetlands Biodiversity (2016) 6: 139 - 148
- Ajin R S, Ana-Maria Loghin, Mathew K. Jacob, Vinod P.G and R.R. Krishnamurthy. (2016). The Risk Assessment Study of Potential Forest Fire in Idukki Wildlife Sanctuary using RS and GIS Techniques. International Journal of Advanced Earth Science and Engineering. 2016, Volume 5, Issue 1, pp. 308-318, Article ID Sci-325.
- Vinod P G and Anirudhan S. (2016). GIS based evaluation of areal and relief aspects in Southern parts of Western Ghats. National Workshop on Western Ghats: Evolution and Environmental Issues held at Thiruvananthapuram from 1st to 2nd January 2016, organized by ESSO- National Centre for Earth Science Studies, Trivandrum
- Hema.C.Nair, D. Padmalal, Ammini Joseph and Vinod P G. (2016). Delineation of groundwater potential zones using GIS and Remote Sensing techniques – A case study from Southern western ghats. National Seminar on Groundwater resources of Kerala: Trends, New perspectives and management strategies organized by International and Inter University Centre for Natural Resources Management, University of Kerala, Thiruvananthapuram held on 4th and 5th Feb.2016.
- Hema C Nair and Vinod P G. (2016). Spatial and temporal changes in groundwater resources of Ithikkara and Kallada river basin, Kerala, SW India. National Seminar on Groundwater resources of Kerala: Trends, New perspectives and management strategies organized by International and Inter University Centre for Natural Resources Management, University of Kerala, Thiruvananthapuram held on 4th and 5th Feb.2016.

- Shaleena Elizabeth John and Vinod P G .(2016). Delineation of groundwater prospect zones in midland region of Vamanapuram river basin, SW India, using RS and GIS. National Seminar on Groundwater resources of Kerala: Trends, New perspectives and management strategies organized by International and Inter University Centre for Natural Resources Management, University of Kerala, Thiruvananthapuram held on 4th and 5th Feb.2016.
- R.S. Ajin, Ana-Maria Ciobotaru , Vinod P.G. and Mathew K. Jacob. (2015) Forest and wildland fire risk assessment using geospatial techniques: A case study of Nemmara forest division, Kerala, India. J. Wetlands Biodiversity 5: 29-37
- Ajin R S, Vinod P G, and A R R Menon (2015) Forest Fire Risk mapping using Remote Sensing and GIS Techniques: A case study of Periyar Tiger Reserve, Kerala, India. 27th Kerala Science Congress held at Alapuzha from 27-30 January 2014, organized by KSCSTE.
- Vinod P G, Ajin R S, and A R R Menon. (2014) Forest Fire Risk Analysis using GIS and RS Techniques: An approach in Idukki Wildlife Sanctuary, Kerala, India. 24th Swadeshi Science Congress. Held at Thunchath Ezhuthachan Malayalam University, Tirur, Malappuram from Nov 6th to 8th 2014.
- Ajin R S, Mathew K Jacob and Vinod P G. (2014). Tsunami vulnerability mapping of Kollam district, Kerala, India: A case study using geospatial techniques. Iranian Journal of Earth Sciences 6(2014) 43-45
- Ajin R S, Mathew K Jacob, A R R Menon and Vinod P G (2014) Forest Fire Risk Analysis using Geoinformation Technology: A Study of Peppara Wildlife Sanctuary, Thiruvananthapuram, Kerala, India. Proceedings of the 2nd Disaster Risk and Vulnerability Conference 2014, held at department of Geology, University of Kerala from 24-26 April 2014.
- Vinod P G, Menon A R R, Ajin R S and Chinnu R V (2014). RS and GIS based Spatial mapping of Flash Floods in Karamana and Vamanapuram River Basins, Thiruvananthapuram District, Kerala. International Symposium on Integrated Water Resources Management (IWRM – 2014).Held at CWRDM, Kozhikode from 19-21 February 2014.
- Ajin R S, Vinod PG and ARR Menon (2014). Landslide Hazard zonation using RS and GIS techniques: A Case study of Meenachil and Kanjirappally Taluk, Kottaym District, Kerala, India. 26th Kerala Science Congress held at Wayanad from 28-31 January 2014, organized by KSCSTE.
- Vinod P G, Ajin R S and A R R Menon (2013) Delineation of Flood Hazard Areas in Achenkovil River Basin, Kerala Using GIS and Remote Sensing Approach. 23rd Swadeshi Science Congress. Held at MG University from Nov 6th to 8th 2013.
- Vinod P G, Ajin RS (2013) Tsunami vulnerability mapping of Kollam district, Kerala, India: A case study using geospatial techniques. Abstarct of Joint International Workshop of ISPRS WG III/1,WG 1V/1 on geospatial data for disaster and risk reduction held at Hyderabad on November 21st to 23rd.
- Chrips N. R., Christudas Williams B. Vinod P. G. (2013) Appraisal of fixed CO2 in varying tree formations of tropical forest. Asian Journal of Plant Science and Research, 3(4):123-129
- Ajin. R. S., R. R. Krishnamurthy, M. Jayaprakash, Vinod. P. G (2013) Flood hazard assessment of Vamanapuram river, Basin, Kerala, India: An approach using remote sensing & GIS techniques. Pelagia Research Library Advances in Applied Science Research, 4(3):263- 274
- T.S Hemath, Reeba Thomas, Vinod P.G. (2012) "A Study on Soil Erosion at Malampuzha Reservoir Basin. Proceedings of ICGE 2012, December 3-4, 2012.(Paper No.C002). *(Obtained best paper award for the theme 'Environmental Geotechnical' in ICGE'12)
- Manas Ranjan Swain and Vinod PG (2012) 'Forest and Mining' using applications of GIS : A Study on Odisha Forest Issues with development of mines activity and to maintain their boundary to prohibit unauthorized encroachment . Proceedings of Odisha Environment Congress 2012 with Focal Theme Forest Resources of Odisha
- Vinod.P G (2012) GIS in Tourist Information System- A Case study of Trivandrum District, Kerala. National Seminar on Geoinformatics and Society organized by Department of Post graduate studies and Research in Geology, Government College, Kasargod