

DR. MURALI KRISHNA GURRAM

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SPATIAL INFORMATION TECHNOLOGY & URBAN & NATURAL & ENVIRONMENTAL RESOURCE MANAGEMENT APPLICATIONS PROFESSIONAL

Theoretical & Applied Research & Field Experience

A dynamic, highly enthusiastic and motivated individual offering outstanding analytical, strategic-development/implementation, organisational, troubleshooting and managerial skills in the field of Geospatial Information Technology and Applications in Urban, Natural & Environmental Management and Geoscience areas supported by a solid and successful 22 years record of accomplishment.

- ✓ Currently serving Xinte Technologies, Visakhapatnam as Head, GIS Technology spearheading the development of unique information products concerning, Real Estate, Municipal Management, Urban Environmental, Navigation and Mapping applications.
- ✓ Full-charge of GIS Technology & Environmental & Mapping services which include, presales, project bidding, techno-commercial proposal development, presentations, etc.
- ✓ Served COWI India, Gurgaon at the capacity of Assistant Vice President and took full charge of Research & Development (R&D) as well as Business Development responsibilities.
- ✓ Successfully lead the R&D operations at Navionics Technologies, Hyderabad and played a crucial role in implementing the open source solutions at enterprise level. Instrumental in migration and development of database and navigation models pertaining to Digital Marine Navigation and Land base products.
- ✓ Responsible for setting up of the GIS Division at Roulac India Investment Advisory Pvt. Ltd. from the scratch and make sure of its successful function by timely implementation of various investing, retail, real-estate and insurance projects of international reputation.
- ✓ Principal architect of Xinte's www.propertydreamz.com first of its kind information portal developed to cater the demands of Re-Estate sector in India using map based intelligence and analytics for informed investment decision making. Also instrumental in developing Roulac's place performance models, enterprise level retail and Real-Estate site selection, WebGIS information products.
- ✓ Designed and delivered various agriculture productivity, commodities information mapping and GIS analysis applications for reputed clients.
- ✓ Acted as a key member in successful execution of Rolta India's large-scale Photogrammetry and Municipal GIS project delivered for Dubai Municipality.
- ✓ Expert in delivering real-time solutions for 'urban growth & risk & environmental quality evaluation for sustainable development (liveability indices)', 'land use/land cover and climate change', 'natural resource management', 'watershed management', 'agro-ecological zoning', 'irrigation planning' 'disaster management and mitigation', 'coastal wetland / river delta evolution and environmental change', 'coastal erosion', 'real-estate', 'retail-site selection', 'insurance', 'navigation', 'healthcare', 'infrastructure', '2D cadastre mapping', '3D mapping (photogrammetry and LiDAR)', 'infrastructure / utilities (water, power, telecom) mapping, etc.
- ✓ Conceptualized various image-processing methodologies/algorithms for the retrieval and analysis of spatial data from satellite data products such as IRS - LISS-III/LISS IV/IKONOS/World View etc.
- ✓ Got recognition as "Best Researcher" and ranked top among the group of internationally acclaimed GIS & Remote Sensing scientists for a pilot project on natural & environmental resource management from Centre for Space Science and Technology Education in Asia & Pacific (CSSTEAP), affiliated to United Nations.

CAREER PROFILE

Organisation	Designation	Duration
Xinte Technologies Pvt. Ltd., Visakhapatnam	Head, GIS Technology & Applications Development	May, 2014 to Till Date
COWI India Pvt. Ltd., Gurgaon	Assistant Vice-President /R&D - Technology Processes & PreSales	Jun. 2011 to April, 2014
Navionics Technologies Pvt. Ltd., Hyderabad	Sr. Manager – Technical, R & D	Nov. 2009 to May, 2011
Castle Consulting India, Hyderabad	Sr. Consultant	Jun 2009 to Nov. 2009
Roulac India Investment Advisory Pvt. Ltd., Hyderabad	Sr. Manager (Sr. Place Analyst)	Apr. 2006 – May. 2009
Rolta India Pvt. Ltd, Mumbai, India	Sr. Executive	Jan. 2004 – Mar. 2006
Dept. of Geo-Engineering and RDT – Center for Remote sensing, Visakhapatnam	Research Fellow - GIS & Remote sensing	Jul. 2002 – Dec. 2003
Centre for Space Science Technology Education in Asia and Pacific, Affiliated to United Nations, DehraDun	Officer Trainee	Oct. 2001 – Jun. 2002
RRSSC (N), ISRO, Govt. of India & Dept. of Geo-	Sr. Research Fellow - GIS &	Apr. 1997 to Sep. 2001

KEY EXPERTISE**Project Management & Lead:**

- ⇒ Spearheading the Technology, R&D and Business Development operations at Xinthe Technologies Pvt. Ltd.
- ⇒ Principal architect of Xinthe's PropertyDreamZ.com, an online real-estate portal.
- ⇒ As Chief Project Manager, lead different project teams of varied sizes ranging from 10 to 250 members.
- ⇒ Full charge responsibility for evaluating and implementing business strategy with main emphasis on plan, processes, technology architecture and other project management processes.
- ⇒ Has core expertise in preparing business proposals, technical documents, project effort and resource estimations, customer communication etc.
- ⇒ Instrumental in developing various Automated Mapping and Municipal Management Systems.

PreSales Expertise:

- ⇒ Extensively involved in the analysis of business requirements and preparation of Request for Proposals (RFP) (Ex. for ICZM, NLRMP etc.).
- ⇒ Thorough with project bidding processes.
- ⇒ Has good expertise in solution architecture.
- ⇒ Responsible for the successful preparation of various Proof of Concept documents.
- ⇒ Very good in preparing and communicating marketing materials for GIS services.
- ⇒ Has expertise in conceptualization of project life cycle and methodology preparation.

Business Development:

- ⇒ Has the ability in understanding client requirements.
- ⇒ Very good in liasoning with Govt. and Ministerial officials at all levels for getting the necessary permissions. (DGCA, Ministry of Civil Aviation, Defence Ministry, Home Ministry etc.)
- ⇒ Build and maintain excellent relationships with colleagues and clients.
- ⇒ Proactive in developing and improving products and services.
- ⇒ Has the ability to deal with strategic and sensitive issues
- ⇒ Clarify goals and reach agreement maintaining the interests of all parties.
- ⇒ Good in managing the proposal development process and maintain the time-lines for the proposal teams.

Application Architecture & Design:

- ⇒ Have expertise in WebGIS application architecture, design and specification requirement documentation.
- ⇒ Provided design and architecture for various GIS applications and products focusing GIS database management, distribution and vendor management.
- ⇒ Conceptualized and developed various WebGIS information products for Financial Market Potential Index and e-governance applications.
- ⇒ Have excellent knowledge in GIS application development and customization methodologies.
- ⇒ Have sound knowledge in enterprise GIS application development.
- ⇒ Good in conceptualizing, designing, architecting and implementing innovative ideas.
- ⇒ Have application knowledge in UML and Software development methodologies.

Spatial Database Management:

- ⇒ Have excellent understanding of designing spatial data models according to application requirements.
- ⇒ Have hands on experience on working with open source database management software, such as, Postgre/PostGIS.
- ⇒ Experienced in handling ESRI geodatabases via ArcSDE.
- ⇒ Have application knowledge in GIS Data Modeling using E-R diagrams.

Geographical Information Systems and Analysis:

- ⇒ Fully abreast with various GIS aspects such as Geospatial data Extraction/Digitization, Data Conversion, QC/QA, Data Management, Data Integration, Analysis, Modelling, and Scenario Development.
- ⇒ Have around 11 years of experience in GIS Analysis, modelling applications.
- ⇒ Have excellent knowledge in Automated Mapping and Facility Management (AM/FM) Applications.

Analytics:

- ⇒ Expert in conceptualisation and architecture of applications for automating the project management processes, analysis and reporting.
- ⇒ Able to provide strategic direction to team in terms of team structure, process, metrics, team skills and communication plan.
- ⇒ Implemented various strategic initiatives to create analytical roadmap for process automation programs.
- ⇒ Strong in conceptualising and implementing the applications for market/retail potentiality, demand analysis, customer trend evaluation etc.
- ⇒ Good in designing reporting applications.

Remote Sensing:

- ⇒ Have sound knowledge in dealing with various remote sensing techniques such as satellite data processing, data interpretation and extraction.
- ⇒ Expert in using various information retrieval algorithms for Optical, Infrared and Thermal remote sensing data acquired by different sensors such as DIGITAL GLOBE, LISS-II, LISS-III, LISS-IV, PAN, NOAA, OCM, LANDSAT, SPOT, IKONOS, SAR, RADARSAT, MODIS and Aerial photographs data etc.

⇒ Certified Reseller of Digital Globe's High Resolution Image (HRI) products.

Digital Image Processing:

- ⇒ Expert in various Image processing techniques such as georeferencing, mosaicking, masking, classification (supervised, unsupervised), change detection, DEM/DTM generation, noise removal, atmospheric correction, deriving Sea Surface Temperature, PCA, resolution merge, Layer Stacking etc.
- ⇒ Experienced in image processing techniques for the suspended sediment concentration (SSC), Chlorophyll concentration using IRS P4 Ocean Color Monitor (OCM) data. Also good in retrieval of Sea Surface Temperatures (SST) from the NOAA AVHRR data for the PFZ identification.

Photogrammetry:

- ⇒ Have 5 years of core experience in Digital Photogrammetry.
- ⇒ Handled all stages of Photogrammetry projects, which includes Aerial Triangulation, Soft copy stereo data compilation, QC, QA, integrating the 3D data in GIS environment, Map finishing OrthoPhoto generation and Technical report generation.

Aerial Survey for Aerial Photography:

- ⇒ Have complete operational experience on aerial survey operations, including documentation, procedure to obtain for flying permissions and leveraging with the concerned officials (as specified in NLRMP project).
- ⇒ Have sound knowledge about international vendors and clients with different 'aircraft' and 'camera' alternatives for different purposes of aerial survey.
- ⇒ Thorough with the GCP collection and DGPS / GPS survey procedures, also good in geodesy.

LiDAR:

- ⇒ Have sound knowledge in LiDAR technology and applications.
- ⇒ Proficient with LiDAR applications especially, LiDAR classification, DSM generation, Power line Corridor aping, Terrestrial LiDAR mapping, 3D CityModel generation etc.
- ⇒ Have thorough knowledge about LiDAR data acquisition instruments/sensors and mechanisms, such as, MMS, terrestrial LiDAR, industrial LiDAR, Altimetric LiDAR etc.

CityGML:

- ⇒ Proficient in creating 3D City Models using CityGML specifications.
- ⇒ Successfully designed, developed and delivered the 3D City Models of L-I and L-II generated using CityGML specification.

Cartography & Mapping:

- ⇒ Well versed with various cartographic techniques involved in various thematic mapping projects.
- ⇒ Experienced in both manual and digital map-making techniques.

Application Testing:

- ⇒ Have thorough knowledge of software testing, SDLC & STLC methodologies and tools.
- ⇒ Good in defining and integrating testing methods for applications developed.
- ⇒ Have knowledge in automated testing using Win Runner, Test Director and Load Runner.

APPLICATION AREAS

Urban / City / Municipal Applications:

- Experienced in applications involving urban quality mapping, risk and growth potential evaluation.
- Have expertise in developing decision support models for generating liveability indices for urban areas.
- Experienced in developing spatial databases for urban management scenarios, maintenance and management.
- Successfully lead and delivered various urban utility mapping projects.
- Expert in urban sprawl mapping, site suitability, planning and sustainable development applications.
- Have hands-on-experience in developing municipal management systems and applications.

3D CityModel Development

- Have expertise in generating 3D City models using CityGML specifications for urban planning, infrastructure mapping, virtual modelling etc.

Automated Mapping / Facility management (AM/FM):

- Have sound knowledge of AM/FM projects and technology implications on e-governance.

Retail Site Selection:

- Developed models for mapping retail market potentiality, marketing and distribution and competitor analysis.
- Developed site suitability analysis and growth-risk model for locating retail outlets.
- Well versed with consumer preferences and segmentation mapping.
- Good in customer networking and geo-intelligence analysis.
- Have knowledge in spatially enabling all retail stores for developing Supply Chain Operations Applications.
- Instrumental in developing Indoor Routing and navigation application for Xinte Technologies.

Real Estate:

- Chief architect of the RE portal named PropertyDreamz.com, which is first of its kind in the world.
- Created various Growth-Risk potential models for the Real-Estate sector.
- Designed various real-estate site selection and suitability applications.

- Expert in real-estate market potential analysis.
- Trade area analysis, Gravity and Spatial Interaction Model Development.
- Experienced in Real estate land use / utility mapping and asset management.

Navigation / Transportation:

- Have expertise in developing mapping applications for both ‘**land**’ as well as ‘**marine**’ systems.
- Architect of **navigation interface** (similar to Google Maps) using **Open Source** for PropertyDreamz.com.
- Expert in design, architecture and development of ‘**Indoor Navigation**’ applications for Retail / Hospitality / Healthcare and many other domains.
- Have experience in developing data models and mapping data for navigation.
- Developed various models for mapping ‘**urban transportation efficiency**’ by analysing, monitoring and measuring parameters like road & traffic conditions, crowd, walkability, navigability etc.

Agro-Business GIS Information Applications:

- Worked on mapping projects involving agriculture productivity, pricing of agro-commodity and business volume.
- Delivered crop acreage and yield potential thematic maps based on the classification of various optical remote sensing image data products captured by sensors like IRS LISS-IV, III and WiFS.
- Conceptualised, designed and delivered various agro-business GIS information products for reputed clients across the globe.
- Authored monthly newsletters for businesses related to agricultural productivity, commodity and pricing.
- Experienced in land capability assessment, crop suitability modeling and agro-climatic categorization.
- Have command over mapping of crop phenology and pest infection studies.

GIS Modeling for Financial & Economic and Investment Analysis:

- Well versed with Socio-Economic and financial data modeling using GIS technology.
- Experienced in GIS for various urban growth / risk assessment and management models.
- Have expertise in identifying place competitiveness with respect to various index parameters.
- Sound knowledge of Market Area Analysis, Business site suitability, Market Potentiality estimation etc.
- Conceptualised the market potential, growth / risk index models based on investment analysis.

GIS Economic Modeling for Place Performance and Investment Analysis

- Have special expertise in place strategy and place performance evaluation.
- Good in growth-risk modeling of places.
- Have expertise in Spatial-Temporal Analysis of Economic Data Place Performance and Investment Analysis.

Environmental Impact Analysis (EIA):

- Have experience in analysing weather extremes and its impact on sea level rise and coastal erosion.
- Extensively studied the coastal mangrove environments their degradation and cause and effective relations.
- Experienced in pollution impact analysis (air, water, noise & soil), hotspot identification and mapping.
- Expert in urban and land-water resource sustainability assessment and management.
- Extensively worked on the Environmental Impact Assessment (EIA) projects.

Disaster Management:

- Strong in creating CAT (catastrophe risk) models for insurance domain.
- Expertise in developing impact assessment models for flood, cyclone, disease and pollution risk assessment.
- Good in modeling of urban growth-risk aspects with respect to industrial and demographic scenarios.

Natural Resource Management:

- **Water Resource Management** - Experienced in identification and mapping of groundwater potential zones, drainage morphometry, micro-watershed modeling & management, erosion and Sediment Yield Index (SYI) mapping, irrigation planning, network mapping and management.
- Have expertise in interpretation, classification and mapping of Land Use /Land Cover at all 4 levels.
- Expert in evaluating and using the LU/LC data for planning and policy decisions.
- **Geomorphology and Bio geomorphology** - Have experience in interpreting, delineating, categorizing and mapping the geomorphology and bio geomorphology zones by analysing the remote sensing data.
- **Wetland & River & Coastal Zone Monitoring Studies** - Expert in remote sensing & GIS applications to Coastal Zone Management, Marine Remote Sensing and Environmental Management and Impact Analysis, Cause & Effect evaluation studies. Also expert in the aspects of coastal & delta landform evolution, coastal wetland degradation and microclimate changes, sedimentation analysis, near shore environ study (Turbidity and wave patterns).
- Fully abreast with Wetland Degradation Analysis, Mapping and Environmental Impact Analysis.
- Good in river erosion-accretion zone and hotspot identification and mapping.
- Developed semi-automated techniques for delineating land/water boundary in coastal and wetland zones. Expert in erosion/accretion modeling and using Digital Bathymetry Models for mapping the ocean/river/lake bathymetry.
- Have exposure to Potential Fishing Zone (PFZ) identification and mapping for forecasting.

Geological Mapping and Mineral Resource Targeting:

- Have hands on experience in targeting iron ore resource using ASTER data.
- Experienced in the identification and mapping hydrocarbon potential zones in river delta zones.
- Good in mapping geological formations.

Micro-Climate Change and Environmental analysis and categorization:

- Worked on the aspects of micro-climate change.

- Good at analysing climatic parameters using different techniques like, water balancing, drought categorization, climatic shifts and estimation of moisture, aridity and humidity indices etc.

360° Panoramic Views

- Have expertise in generating 360° panoramic views taken from different type of cameras.

Use of GPS, Surveying and Geochemical Analysis:

- Well versed with field techniques. Implemented GPS organisation methods for conducting survey for various features to obtain sub meter accuracy.
- Have expertise in survey, data collection (primary and Secondary), subsurface sample exploration, analysis etc.

SOFTWARE PROFICIENCY

Software Category	Product of	Product Name	Purpose of use	Proficiency
GIS	ESRI	ArcGIS	GIS Applications /Analysis	Expert
		ArcIMS	Web GIS Applications	Very Good
		ArcObjects	GIS Application Development	Average
		ArcGIS Server	Enterprise / Web GIS Application development	Average
		Arc Engine	Application development	Average
		ArcSDE	Geospatial Data Management	Average
	Open Source (OGC)	GeoServer/Open Layers/Leaflet/MapServer	Enterprise / Web GIS Application development	Very Good
	MapInfo	MapInfo 5.0	GIS Applications /Analysis	Very Good
	Intergraph	Geomedia		Very Good
Open Source (OGC)	Quantum GIS, MapWindowGIS, GRASS, Diva GIS, fGIS, ZigGIS,	Expert		
CAD & GIS	Intergraph	Microstation 8.0	Geospatial data Extraction/Digitization	Expert
	Autodesk	AutoCAD		Good
	Microsoft	IntelliCAD		Good
Digital Image Processing & GIS	ERDAS	Erdas Imagine 8.x	Satellite data processing, georeferencing, classification, DEM/DTM, Mosaicking, Raster analysis, Image Enhancements, Resolution merge etc.	Expert
	PCI	Easi/Pace 7.0.2		Very Good
	ITC	ILWIS 5.0		Very Good
	PCI	Geomatica 7.0		Very Good
		ENC Designer	Marine applications	Very Good
	Bentley	IRAS-B	Raster data processing	Very Good
	Adobe	Adobe Photoshop	Image Editing	Very Good
Photogrammetry	Bentley Intergraph, Z/I	SocetSet, INPHO, Image Station SSK (ISFC, ISSD, ISDC, ISAE, ISAT, ISPM),	Aerial Triangulation, 3D feature capture, DEM / DTM etc	Expert
		Terrashare	Raster Image data Management	Very Good
OrthoPhotos	Bentley, Intergraph, Z/I	Orthopro, Orthovista	OrthoPhoto generation	Very Good
GPS	Garmin, Trimble		Surveying, On field data capturing	Very Good
RDBMS	Microsoft	SQL Server 2005	Database Management, Analysis	Good
	Microsoft	Ms Access		Good
	Open Source (OGC)	PostgreSQL / Post GIS, MySQL	Geospatial Data Management	Very Good
Application / GUI Development	Microsoft	C# .Net	Applications / GUI development / Customization	Good
		Asp.Net / Javascript		Good
		HTML	Web Page Creation	Very Good
Markup Languages	W3C	XML, GML	Web development, data sharing	Good
3D City Modeling	Autodesk	CityGML	LandExplorer , 3DS Max	Very Good
Testing		SW Development	SDLC & STLC	Very Good
Office Management	Microsoft	MS Word, MS Excel, MS PowerPoint, Visio		Expert

TRAININGS UNDERGONE/IMPARTED

Trainings Undergone	Trainings Imparted
Centre for Space Science and Technology Education in Asia & Pacific, Affiliated to United Nations,	Expert Lectures – Winter School PDP on Geospatial Technologies – Application to Science and Engineering Research (Geostap-2015), 19th December, 2015 to 08th January, 2016, GITAM University, Visakhapatnam

Dehra Dun, India.	
Regional Remote Sensing Service Centre, (N), National Remote Sensing Agency, ISRO, Govt. of India.	Course Coordinator, Geoinformatics Certification Course intended for the Engineers of Dept. of Irrigation, Govt. of Andhra Pradesh.
	Guided around 10 students of M.Tech. Remote sensing & GIS, for their project work on different topics.
	Delivered lectures on topics related to Geospatial Information technology and Applications in various reputed Universities and institutes.

ACADEMIC QUALIFICATIONS

- ⇒ **Ph.D.** Spatial Information Technology, JNTU, Hyderabad (2016).
- ⇒ **Doctorate** in Management Studies, IIBMS, Mumbai (2009).
- ⇒ **MBA**, Sikkim Manipal University, Manipal (2010)
- ⇒ **M.Sc.-IT**, Kuvempu University, Shankarghatta, Shimoga (2009)
- ⇒ **M.Tech.** GIS & Remote Sensing, from Andhra University & CSSTEAP, affiliated to United Nations. (2003)
- ⇒ **P.G. Diploma** GIS & Remote Sensing, CSSTEAP, affiliated to United Nations. (2002)
- ⇒ **M.Phil.** GIS & Remote Sensing (appli. for Coastal Zone Management), Andhra University, Visakhapatnam (1999)
- ⇒ **M.Sc.** Geography, Andhra University, Visakhapatnam (1997)
- ⇒ **B.Sc.** Geology, Nagarjuna University, Guntur (1995)
- ⇒ **Certified Project Management Professional Programme**, IIT, Delhi. (2010)
- ⇒ **PMI's Certified Associate in Project Management (CAPM)**
- ⇒ **Qualified as Certified Reseller of Digital Globe's High Resolution Image (HRI) products.**
 **Qualified for the CSIR/UGC NET / Lectureship Exam with overall 4th Rank (2009)

PATENTS

1. Intelligent System and Method of Digital Allocation of Ore Waste Zones, Gradation and It's Management; Patent Application No. 201841035851

RESEARCH PUBLICATIONS

Book Chapters:

1. Murali Krishna G., and Nooka Ratnam K., (2019): Evaluation of Risk Potential of Industries and Natural Hazards in the Wards of Hyderabad, India - AHP Multi-criteria Modeling Perspective Using Remote Sensing and GIS; Proceedings of International Conference on Remote Sensing for Disaster Management; Springer Series in Geomechanics and Geoengineering, Springer International Publishing AG, part of Springer Nature 2019; Chapter No. 28, pp. 317-330; ISSN: 1866-8755.

Papers in International Journals:

1. Sairam Korada and Murali Krishna Gurrām (2018): A Geospatial Intelligence System for Digital Allocation of Feed and Waste Zones in Iron Ore Mining, Journal of Earth Sciences and Geotechnical Engg., Vol. 8, No.4, pp. 35-44, IF 1.84, ISSN 1792-9040 (print ver.), 1792-9660 (online ver.). IF 1.84, Georef, GoogleScholar.
2. Murali Krishna Gurrām and Nooka Ratnam Kinthada (2018): Influence of Demographic and Socio-Economic Variations in Shaping Urban Structure - A Ward Level Study on Hyderabad, Telangana using Remote Sensing and GIS Techniques. International Journal of Engineering, Science and Mathematics, Vol. 7, Issue 3, March 2018 (Special Issue), pp. 55-63, ISSN 2320-0294, IF 6.765, UGC, Scopus (ID: 3D9ED96C3EFA9FBD)
3. Naga Sai Sindhuja, V., Victor Babu, N., Ramesh Naidu, CH., and Murali Krishna Gurrām (2017): Watershed Preservation and Control Using GIS; International Journal of Engineering, Science and Mathematics; Vol. 6, Issue 8, No.1, pp. 266-268; ISSN: 2320-0294. IJMRA Publications
4. Murali Krishna G. and Nooka Ratnam K. (2016): Utility of Large Scale Photogrammetric Techniques for 3-D Mapping and Precision Iron Ore Mining in Open Pit Areas, Journal Geology & Geophysics, Vol. 6, No.1, pp. 270-274, IF 1.24, ISSN: 2381-8719, doi: 10.4172/2381-8719.1000270. Scopus, Google Scholar etc.
5. Yenamala Sreedhar, Arveti Nagaraju and Gurrām Murali Krishna (2016): An Appraisal of Land Use/Land Cover Change Scenario of Tummalapalle, Cuddapah Region, India - A Remote Sensing and GIS Perspective, Advances in Remote Sensing, Vol. 5, No. 4, pp. 232-245, IF 1.51, ISSN Print: 2169-267X, ISSN Online: 2169-2688. DOI: 10.4236/ars.2016.54019. Scopus, Google Scholar, I-Scholar, CrossRef, etc.
6. Murali Krishna Gurrām (2016): The Emergence of GIS – 'Techno'spective Insights, Consultants Review Magazine, Vol. 2, Issue 8-4, pp. 34-35. Scopus, Google Scholar etc.
7. Murali Krishna G., Deekshatulu B. L. and Nooka Ratnam K. (2015): Urban Environmental Quality Assessment at Ward Level using AHP based GIS Multi-Criteria Modeling – A Study on Hyderabad City, India, Asian Journal of Geoinformatics, Vol. 15, Issue 3, pp. 16-29. IF 1.05, ISSN No. 1513-6728. SCI, Scopus, GoogleScholar etc.
8. Murali Krishna G., Nooka Ratnam K., Ravi, P. and Sridhar, P. (2015): A Holistic Approach for the Development and Implementation of Robust and Cost-Effective Enterprise WebGIS Business Solutions,

9. Usha Ch., Murali Krishna G. and Nooka Ratnam K. (2015): Mapping of Soil Erosion Zones of Meghadrigedda Catchment, Visakhapatnam, India for Conservation - A Geospatial Approach, International Journal of Geosciences, Vol. 6, pp. 326-338, IF 1.23, ISSN Print: 2156-8359, ISSN Online: 2156-8367. Google Scholar, Scopus etc.
10. Nooka Ratnam K., Murali Krishna G., Amminedu E. and Venkateswara Rao V. (2014): Land Use/Land Cover and NDVI Analysis for Monitoring the Health of Micro-watersheds of Sarada River Basin, Visakhapatnam District, India, Journal of Geology & Geosciences (JGG), Vol. 3, issue 2, pp. 146-153 IF 1.02. ISSN: 2381-8719. Scopus, GoogleScholar, CrossRef etc.
11. Murali Krishna G., Deekshatulu B. L. and Nooka Ratnam K. (2014): An Appraisal of Sustainability Scenario of Solid Waste Management: A GIS Study on Municipal Wards of Hyderabad, India, Journal Geology & Geosciences (JGG), Vol. 3, Issue 2, 1000143, pp. 143-146, IF 1.02. ISSN: 2381-8719. Scopus, GoogleScholar, CrossRef etc.
12. Murali Krishna G., Deekshatulu B. L., Nooka Ratnam K. and Amminedu E. (2013): Evaluation of Change in Micro-Climatic Conditions vis-à-vis Urban Growth - A Remote Sensing and GIS Study on Hyderabad Urban Agglomeration, India, Journal of Applied Hydrology (JAH), Andhra Pradesh Akademi of Sciences (APAS), Vol. XXVI, No. 1-4, pp. 105-123. Dec. 2013. IF 0.85, ISSN: 0971-670X. GoogleScholar, Scopus etc.
13. Murali Krishna G., Deekshatulu B. L. and Nooka Ratnam K. (2013): Air Quality Scenario Evaluation in the Municipal Wards of Hyderabad, Andhra Pradesh, India – AHP Based GIS Multi-Criteria Modeling Perspective, International Journal of Urban Planning and Transportation (IJUT), Vol. 27, No. 2, pp. 1116-1125. IF 1.64, ISSN: 2051-5820. GoogleScholar, Scopus etc.
14. Murali Krishna G., Deekshatulu B. L. and Nooka Ratnam K. (2013): Assessment of Water Quality Scenario in Parts of Hyderabad Urban Agglomeration, India – AHP-GIS Modeling Perspective, Int. Jour. of Civil and Envi. Engg. (IJCE), Vol.35, No.2, pp. 1147-1157. ISSN:1701-8285, IF 1.92. GoogleScholar, Scopus etc.
15. Nooka Ratnam K., Murali Krishna G., Amminedu E. and Venkateswara Rao V. (2013): Remote Sensing and GIS in the Geomorphometric Analysis of Micro-Watersheds for Hydrological Scenario Assessment and Characterisation - A Study on Sarada River Basin, Visakhapatnam District, India, International Journal of Geomatics and Geosciences (IJGGS), Vol. 4, No. 1, pp. 195-212. IF 0.55, ISSN: 0976-4380
16. Murali Krishna G., Oyuntuya Sh. and Nooka Ratnam K. (2013): Influence of Micro-Climate Parameters on Natural Vegetation – A Study on Orkhon and Selenge Basins, Mongolia, Using Landsat-TM and NOAA-AVHRR Data, International Journal of Advanced Remote Sensing and GIS (IJARSG), Vol. 2, Issue 1, pp. 148-161. IF 0.50, ISSN: 2320-0243. GoogleScholar, CrossRef etc.
17. Nooka Ratnam K., Swetha Poornima K. and Murali Krishna G. (2012): GIS and Remote Sensing in Hydrogeomorphological Mapping and Integrated Agro Action Plan Development for Sustainable Land-Water Resource Management in Domaleru Watershed, Prakasam District, A.P., India", The International Journal of Advanced Technology and Engineering Research (IJATER), Vol. 3, Issue 1, Jan. 2013, pp. 11-18. IF 0.53, ISSN: 2250-3536. Geobase, IndexCopernicus, GoogleScholar etc.
18. Usha Ch., Nooka Ratnam K. and Murali Krishna G. (2012): Correlation of Geomorphometric parameters for the Hydrological Characterization of Meghadrigedda Watershed, Visakhapatnam, India – A GIS Approach, International Journal of Engineering Science and Technology (IJEST), Vol. 4, No. 07, July, 2012, pp. 3169-3183. IF 0.50, ISSN: 0975-5462. GoogleScholar, Sc, IndexCopernicus, DOAJ etc.
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- Remote Sensing and GIS Applications in the Identification Aquaculture Hotspots at Village Level – A Case Study of Godavari Delta Coastal Belt.

- Linear Shoreline Change Detection using Remote Sensing and GIS based Grid & Graph Analysis method – A study on Sagar Island, East Coast of India.
- Digital Mapping and Property Management of Temples using Remote Sensing and Geographical Information Systems - A Case Study.
- Remote sensing and GIS approach in the Identification of Optimal locations for the Establishment of Agricultural Marketing Yards – A case study in Guntur District of Andhra Pradesh”.
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MEMBERSHIPS IN PROFESSIONAL BODIES

- Life Member of Indian Society of Geomatics (ISG). Membership No. L-1360
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- Editorial Board Member, International Journal of Geoinformatics, Bangkok
- Editorial Board Member, International Journal of Advanced Multidisciplinary Scientific Research (IJAMSR)
- IEEE and Geographic Activities, Member

SEMINAR / SYMPOSIA PARTICIPATED

- National Workshop on “Exploring the World through GIS” conducted by Dept. of Geo-Engineering, Andhra University College of Engineering (A), Visakhapatnam and Indian Society of Geomatics – Visakhapatnam Chapter, 14-15th November, 2018.
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- Geospatial India Forum, 10-12 Feb., 2015, Hyderabad.
- One Day Workshop on “Geospatial Technologies for Resources Evaluation and Disaster Management (GTREDM)” conducted by Dept. of Geo-Engg., College of Engg.(A), Andhra University, Visakhapatnam supported by Technical Education Quality Improvement Programme (TEQUIP), Phase-II on 22nd April, 2015.
- Geospatial India Forum, 22-24 Jan., 2013, Hyderabad.
- 13th ESRI User Conference 2012, 5th to 6th December, 2012, Radisson Blu MBD Hotel, Noida, Delhi NCR.
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- INPHO & e-Cognition Workshop 2012, jointly organized by Trimble Geospatial and Amigo Optima Solution Pvt. Ltd., 13th July 2012, New Delhi, India.
- India Geospatial Forum 17-19 Feb., 2012, Gurgaon, India.
- Emerging Technologies in Surveying, organised by TopCon Sokkia India Pvt. Ltd., Gurgaon, NCR Delhi, 09th December 2011.
- National seminar on “Development and Sustainability of Earth Resources and Environment (DSERE 2011), 12th to 13th March 2011, organised by School of Earth and Atmospheric Sciences, Adikavi Nannaya University, Rajahmundry, A.P., India.
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- International Seminar on Earth Observation Systems for Disaster Management – Capacity Building, Methods, and Challenges, IIRS Dehra Dun, 29-30th June, 2004.

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Excellent References shall be provided on request