Curriculum vitae

Prof.Dr.S.Anbazhagan Professor and Head Department of Geology

Director

Centre for Geoinformatics and Planetary Studies
Periyar University
Salem 636011, India
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Date of Birth:05.06.1963

Residential address: 44/7 Sakthi Vinayagar Nagar, Narasothipatti, Salem 636004



Ph.D in Geology (1995) Bharathidasan University, Tiruchirappalli M.Sc in Applied Geology (1985) National College, Bharathidasan University B.Sc in Geology (1983) Government Arts College, Salem, University of Madras

POST DOCTORAL RESEARCH

<u>Humboldt Research Fellow</u> (1996-98) Alexander von Humboldt foundation awarded fellowship for Post doctoral Research at Germany on 'Remote sensing and GIS techniques for Artificial Recharge & hydrological studies in Kinzig basin, Germany' under the supervision of Prof K.Knoblich in Institute of hydrogeology, der Justus Liebig Universitat, Giessen

<u>Visiting Research Scientist</u> (1998): Short term Research visit and trained in GIS at International Institute for Aerospace Survey and Earth Sciences (ITC), Enschede, The Netherlands

Research Associate, Centre for Remote Sensing, School of Earth Sciences, Bharathidasan University. Associated with ISRO IMSD project and coordination with project team and experts, interpretation satellite data, Field survey, landform demarcation and processing of socio-economic data.

VISITING RESEARCH SCIENTIST

<u>Visiting Research Scientist</u> (June 2006), Germany, Short term collaborative research visit made to the Institute of Geology, Freiberg University of Technology and Mining, Germany in the field of remote sensing and GIS.

<u>Visiting Research Scientist</u> (May-July 2004), Germany, Collaborative research visit to Institute of Photogrammetry and Remote sensing, Technical University, Dresden, Germany through Humboldt Revisit programme.

AREA OF SPECIALIZATION

Remote Sensing and GIS applications
Planetary Remote Sensing
Hyperspectral Remote Sensing
Groundwater Exploration and Management
Natural Disaster Mapping & Management

PROFESSIONAL EXPERIENCES (Research 24 Years, Teaching: 14 years)

<u>Professor and Head</u> (Since May-2005 onwards), Department of Geology <u>Director</u> (since Feb 2010 onwards, Centre for Geoinformatics and Planetary Studies, Periyar University, Salem

As founder Professor and Head in the Department of Geology made significant contributions towards curriculum & infrastructure development, teaching, research and extension activities. Developed new courses such as M.Sc, M.SC integrated, M.Tech, M.Phil and Ph.D programmes in the department. Established infrastructure facilities in the department right from the base including building space and developed several labs. As coordinator for DST-FIST and UGC XI plan, Rs.7.5 million worth of financial support brought to the department for basic equipment facilities. In addition to administrative work, regular teaching and guidance were made for M.Sc, M.Tech, M.Phil and PhD students. Handled/handling several research projects worth of Rs.10 millions supported by ISRO, DST & UGC. In part of extension activities, organized several Seminars, Workshops and training programmes. Centre for Geoinformatics and Planetary studies was established in the department and initiated planetary remote sensing research on Lunar and Mars geological exploration.

Associate Professor (March-May2005)

Assistant Professor (April2001- February2005) Department of Earth Sciences, IIT Bombay

Served nearly 5 years at IIT Bombay in the Department of Earth sciences and established well equipped Geoinformatics lab through MHRD project. Regular teaching and guidance were offered for M.Sc, M.Tech students and PhD scholars. Associated for student field mapping at Rajasthan and Gujarat. Research projects were carried out on Disaster mapping & management, groundwater exploration, water resource management and hyperspectral remote sensing. Take part in curriculum development and offered new courses in M.Sc and M.Tech programmes. Quality Improvement Programme was organized for engineering college teachers. Student advisor for M.Sc Applied Geology programme and look after over all academic activities including course registration, field work execution and allotment of projects work.

<u>Senior Project Officer Gr I</u> (1998-2001) Water Resource and Environmental Engineering Division, IIT Madras, Chennai

Associated with European Commission project and took Administrative and technical responsibility. Coordinated with foreign collaborators (UK,Italy), execution of field visits, flow measurements, questionnaire survey with farmers. Involved in Neyveli Multilayer aquifer system project and collected hydrogeological, hydraulic and pumping test data.

<u>CSIR Senior Research Fellow</u> (1992-1994), Undergone Ph.D Programme at Centre for Remote Sensing, School of Earth Sciences, Bharathidasan University

Research Fellow (1991-1992)

TNSCS&T sponsored research project, School of Earth Sciences, Bharathidasan University

Research Assistant (1988-1989) Institute of Remote Sensing, Anna University
In ISRO sponsored National Drinking water Mission project and created hydrogeomorphological mapping for entire Tamil Nadu and village level ground water potential mapping for Composite Ramnad district.

<u>Groundwater Consultant</u> (1985-1987) Conducted geophysical resistivity surveys for government, quasi government and private organizations for groundwater exploration

RESEARCH GUIDANCE

Ph.D: Completed-08 Ongoing: 04

M.Phil: 08

M.Tech: 09 M.Sc. Tech: 05 M.Sc: 17

COUNTRIES VISITED

Germany (1996-98, 2001, 2004, 2006)

Greece (1997) The Netherlands (1997, 1998)

Singapore (2001), Thailand (2001), Spain (2003), USA (2012)

AWARDS

- ISAC-ISRO Appreciation Certificate (2012) for supply of lunar soil simulant
- Best Teacher Award (2012), Periyar University for academic contribution
- Sir C.V. Raman Award (2010) for scientific research innovation, Periyar University
- Humboldt Research Fellow (1996-98), Alexander von Humboldt Foundation, Germany
- CSIR Senior Research Fellowship

UNIVERSITY ADMINISTRATIVE AND HONORARY WORK

- UGC Advisory Committee (Since 2013) Utkal University, Bhubaneswar
- Coordinator (October 2010 January 2012), Research & Development PhD Registration and evaluation, University fellowships and scholarship
- Syndicate Member (2009-July 2011) & Convener & Member in subcommittees
- Senate member since 2005 to till date
- Controller of Examinations incharge, for several times
- University Coordinator for UGC XI plan proposal preparation
- University Coordinator during Expert committee visit
- Member, NAAC proposal preparation & associated during expert committee visit
- Chairman, PG Board of studies in Geology, Periyar University
- Member, Board of Research Studies in Periyar University
- Coordinator, SET Examinations for Salem sub centre for two times
- Member & Expert, Faculty selection committee in Gandhigram Deemed University, Periyar University, Bharathidasan University, University of Madras, National College, Sowdeswari College & KKC, Vellore.
- · Member, Board of Studies in Geoinformatics, Bharathidasan University
- Member, Standing Committee on Academy Affairs
- University representative for various colleges (Sri Saradha College, Sri Saradha college of Education, Sowdeswari College)
- Examiner for Doctoral Thesis evaluation and conducting viva voce examinations for several universities
- Chairman, question paper setting for several universities
- Expert / Resource person in Remote sensing / GIS courses
- Member, National Education Council Technology inspection commission

- Advisor (2009) National Seminar on Earth Resources, Environment and Earth sciences to Society
- Member of the Editorial Board 'The Researcher'

RESEARCH GRANT (Total grant Received more than Rs.1.35 crore)

Agency	Project Title	Period	Amount/ Status/ Remarks
ISRO-IITB Cell	Integrated Remote Sensing and GIS study for Delineating Deep aquifer system in Precambrian crystalline terrain	3 years (2003-2006)	Rs.21,00,000/- Completed
British Gas	Characterization of modern coastal environment in Gulf of Cambay, India.	3 years (2004-2006	Rs.32, 00,000/- Co-PI& PI's Prof P.K.Saraswathi Prof S.Banerjee at IITB.Relieved from the project May'05
MHRD	Strengthening of Remote sensing and GIS facilities Funded Ministry of Human Resource Development	2years (2004-2005)	Rs.19,00,000/- Completed
ISRO under PRL PLANEX Programme	Reflectance spectra of selected rocks and minerals and optimization of spectral bands for lunar exploration (Project-"Spectra")	4 years (2005 – 2009)	Rs.7,00,000/- Completed
UGC	Microlevel (Farm level) Artificial Recharge Studies in drought prone areas (Project-"MARS")	3 years (2007 – 2010)	Rs. 5,38,000/ Completed
DST	Geological, Geomorphological and Geotechnical studies for Landslide Assessment along Ghat road from 0 Km to 25 km of Kolli Hills (Project- "Kollilandslide")	2.5 years 2010-12.	Rs.12,59,000/- Completed
ISAC- ISRO	Realisation and Supply on Lunar Soil Simulant	3 years (2011-13)	Rs.13,26,304/ (ongoing) A consultancy project related to Chandrayaan2
ISRO-PRL PLANEX Programme	Reflectance Spectra and Petrological studies of Kadavur structure – a possible Terrestrial analog for Lunar Highland Region (Project "RESPET Kadavur")	3 Years (2012-2014)	Rs. 26,68,560/- (ongoing)

GRANT RECEIVED FOR THE DEPARTMENT

Responsiblity	Agency	Programme	Duration	Amount/ Remarks
Department Coordinator	UGC	XI Plan	5 years	Rs.23.60 lakhs
Department Coordinator	DST	FIST	5 years	Rs.38 lakhs

COLLABORATIONS

International

- Prof Elmar Csaplovics, Institute of Photogrammetry and Remote sensing, Technische Universitat, Dresden Germany
- Prof Richard, Institute for Geology, Freiberg University of Mining and Technology
- Dr Bernadetta Kwintiana Ane Institute of Computer-aided Product Development Systems (IRIS), Universitat Stuttgart, Germany
- Prof X.Yang, Florida State University, USA
- · Prof. Santhosh, China

National

- Dr. M.Annadurai, Programme Director & Shri.Venugopal Scientist SG, ISRO Satellite Centre, Bangalore
- Prof. S.V.Murty, Physical Research Laboratory (PRL) in Planetary exploration programme
- Dr.S.K.Subramanian, National Remote Sensing Centre, Hyderabad
- Dr.Senthil kumar, National Remote Sensing Centre, Hyderabad Hyperspectral Remote sensing
- Dr.Arya, Space Application Centre collaborative project in Mars exploration
- Prof T.K.Biswal, Prof.T.N.Singh, Prof.D.Ramakrishnan, Indian Institute of Technology, Bombay in Remote sensing and Engineering geology
- Prof. S.Sisodia, Jai Narain Vyas University, Jodhpur
- Prof.Parthasarathy, NGRI Hyderabad in planetary geology
- Dr.Guru Balamurugan TISS Mumbai in Disaster mapping and mitigation
- Dr.K.N.Kusuma, Department of Earth Sciences, Pondicherry University

SEMINAR/ WORKSHOP/ COURSE ORGANIZED

- Special Lecture on 'Near Surface Processes in MARS- A Mineralogical Perspective' during 2nd December 2013 at Periyar University, Salem
- 2. Tamil Nadu Science Congress on 'Natural Resources, Conservation, Protection and Green Technology', during August 23-25, 2012 at Periyar University, Salem
- 3. TNSCST Sponsored Orientation Programme on 'Research Activities in Science for College Teachers' during March 26-27, 2012 at Periyar University, Salem.
- 4. UGC Sponsored Workshop on Recent Perspective on Southern Granulitic Terrain, during December 26, 2011 at Department of Geology, Periyar University, Salem.
- 5. Regional Workshop on "Artificial Recharge and Watershed Management" held at Department of Geology, Periyar University, and Salem, during 6th August 2010.

- 6. National Seminar on "Recent Developments and Opportunities in Exploration Geology & Geoinformatics" (Explore G², 2007) March 7-9, 2007 at Department of Geology, Periyar University, Salem.
- 7. Workshop on "Earth science: Its Present Role in Society an awareness programme for school teachers" February 28th 2006 at Department of Geology, Perivar University, Salem.
- 8. AICTE Sponsored QIP programme on "GIS and Its applications" 14-18 February 2005 at IIT Bombay, Mumbai

JOURNAL / GRANT REVIEWER

- Remote sensing of Environment (Elsevier)
- International Journal of Remote Sensing (Taylor & Francis)
- Marine environmental research
- Journal of Indian Society of Remote sensing (Springer)
- Environmental Earth sciences (Springer)
- Natural Hazards (Springer)
- Journal of Hydrology (Elsevier)
- Journal of Spatial Hydrology (American Spatial Hydrology Union)
- Journal of Environmental management
- Journal of Hydrogeology (Springer)
- Journal of Geological Society of India (Springer)
- Current Science (Indian Academy of Sciences)

GRANT REVIEWER

- Department of Science and Technology
- Ministry of Environment and Forest
- Physical Research Laboratory, Indian Space Research Organization

MEMBERSHIP OF PROFESSIONAL SOCIETY

- · Member, Geological Society of India
- Member, Indian Remote Sensing Society
- Member, Indian Society of Geoinformatics

TEACHING AND CURRICULAM DEVELOPMENT

- Student advisor for M.Sc Applied Geology programme at Department of Earth Sciences, IIT Bombay and look after over all academic activities including course registration, field work execution and allotment of projects work
- Taught courses for M.Tech (Exploration geology) and M.Sc (Applied Geology) students and research scholars in the following subjects; Aerial Remote sensing, Fundamentals of Remote sensing, Digital Image processing, Geographic Information systems, Applied Geomorphology, Applied Hydrogeology, Groundwater exploration
- Taught classes for Diplom students at Institute of Hydrology, der Justus Liebig Universitat, Geissen, Germany in Basic Photogeology and applications
- As Senior Research Fellow and Research Associate at Centre for Remote Sensing, Bharathidasan University, theory and practical classes in remote sensing were taken to P.G diploma and M.Tech students.

- As Head of the Department and Chairman, PG Board of studies in Geology, curriculum is developed for the following courses and introduced in the department
 - M.Sc Applied geology
 - M.Sc Earth Science (5 year integrated)
 - o M.Tech Exploration Geology and Geoinformatics
 - M.Phil Applied Geology
- As Chairman, UG Board of Studies in Geology, action has been taken to start B.Sc Applied Geology curriculum development in the University Constituent College

RESEARCH EXPERIENCE

May 2005 onwards Periyar University

- Realization and supply of lunar soil stimulant
- Geological, Geomorphological and Geotechnical studies for Landslide Assessment
- Optimizations of spectral bands for lunar exploration/ mapping
- Clementine and Chandrayaan data analysis for Lunar Exploration
- Hyperspectral remote sensing in mining environmental study
- Remote sensing in fractured aguifer studies
- Micro level artificial recharge study in drought prone area
- Geoinformatics in Sustainable Groundwater Studies

2001- 2005 (IIT Bombay)

- Hyperspectral and Planetary remote sensing
- Landslide hazard Zonation and vulnerability mapping
- Sustainable Groundwater development
- · Remote sensing and artificial recharge studies
- Coastal Geomorphological mapping
- Remote sensing and GIS for Hydrogeological studies
- Flood plain environmental mapping

1998 - 2001(IIT Madras)

- Studies on Neyveli multilayer Aquifer system
- Fuzzy logic Procedures and Risk assessment for Prioritization of Irrigation system Maintenance and Rehabilitation (Veeranam and Tirunelveli irrigation system)

1996 – 1998 (Justus Liebig Universitat, Germany& International Institute for Geo-Information Science and Observation, The Netherlands)

- Remote sensing and GIS for Artificial Recharge studies, Kinzig basin, Germany
- Hydrological behaviour studies in Kinzig sub catchments areas.

1990 - 96 (Centre for Remote sensing, Bharathidasan University, Tiruchirappalli)

- Integrated Mission for Sustainable Development of Gundar basin area, Tamil Nadu
- Spectroradiometric survey and optimization of spectral bands for discriminating various minerals and rocks using IRS 1A, TM and SPOT data.
- Thermal Remote sensing studies for geological mapping.
- Remote sensing based Integrated Terrain Analysis for Artificial Recharge.
- Urban Land use/land cover mapping using IRS 1B and SPOT data.

1987-89 (Institute of Remote sensing, Anna University)

- Hydrogeomorphological mapping under National Drinking water Mission project.
- Village level ground water potential mapping for Composite Ramnad district.

RESEARCH GUIDANCE

Ph.D Completed (08)

- V. Ramesh Title: Geoinformatics in Landslide Hazard mapping and slope stability analyses in Ghat Road Section of Kolli Hills, Tamil Nadu, India (2014)
- M. Rajendran (Working as Assistant Geologist PWD), Title: Geoinformatics in Groundwater quality mapping with special reference to fluoride contamination in Nallampalli Block, Tamil Nadu, India (2014)
- A. Venkatesan (Working as Assistant Professor in Department of Geology, PRUCAS, Mettur), Title: Geoinformatics in Fluvial Geomorphological study of Thoppaiyar sub-basin, Tamil Nadu, India (2014)
- A. Jothibasu, Title: Geoinformatics for Sustainable Water Resource Development in Uppar odai Sub-basin, Tamil Nadu, India (2013)
- C.K.MuthumaniRaja (Working as Asst.Director, PWD), Title: Geoinformatics in Groundwater evaluation & Management studies in Thalaivasal block, Tamil Nadu, India (2013)
- S.Arivazhagan (Working as Assistant Professor in KSR Engg.College, Department of Civil Engg., Tiruchengode, Tamil Nadu) Title: Reflectance Spectra of lunar analog rocks and minerals and optimization of spectral bands for lunar exploration (2010)
- Guru Balamurugan (Working as Assistant Professor in Department of Disaster Management, Tata institute of Social studies, Mumbai) Title: Remote sensing, GIS and Modeling for characterizing the fractured aquifer system in Hosur region, Tamil Nadu, India (2008)
- K.S. Sajinkumar (Working as Assistant Professor in Department of Geology, University of Kerala, Thiruvananthapuram) Title: Geoinformatics in Landslide risk assessment and management in parts of Western Ghats, central Kerala, South India (2005)

Ongoing (04)

- **K. Tamilarasan** (University Research Fellow) Title: Remote Sensing Applications (2013)
- M. Chinnamuthu (Research Scholar) Title: Remote Sensing of Mars morphological mapping (2011)
- C. R. Paramasivam (Meritorious UGC-BSR Senior Research Fellow) Title: Hyperspectral Remote Sensing and Geological studies on Mining Environment (2011)
- **S. Uma Maheswaran** (Project "RESPET Kadavur"- Senior Research Fellow), Title: Remote Sensing and Impact Crater Studies. (2009)

M.Tech (09)

- 1. Balamurugan R. GIS and GPS Techniques for Creation of Periyar University Infrastructure Facility Mapping. (2011)
- 2. Shanmugavalli G. Geoinformatics Based Landslide Susceptibility Zonation mapping along Ghat Road section of Kolli Hills, India. (2009)
- 3. Sainaba N.K. Reflectance spectra and Image processing of lunar highland analog region (Anorthositie complex) and its significance in lunar mapping (2008)

- 4. Vanaraju G.- Water resource estimation through integrated remote sensing and GIS in Uppar basin, Tamil Nadu, India. (2007)
- 5. Ajith Kumar R. Remote sensing and Geomorpholoogical study in understanding Palaeo river course in parts of Dharmapuri district, Tamil Nadu, India (2005)
- 6. Milan Kanti Das Remote sensing and GIS in groundwater studies in crystalline rock aquifer around Hosur, Tamil Nadu (2005)
- 7. Sreekumar Pillai Flood impact assessment through Remote sensing and GIS in Darbhanga and Madhubani districts of Bihar, India (2004)
- 8. Avirup chatterjee Hazard zonation mapping of Mumbai city Environments using Remote sensing and GIS techniques (2003)
- 9. Archana M. Nair Remote sensing and GIS for Hydrogeological studies in Panvel basin, Raigarh district, Maharashtra, India (2003)

M.Sc. (Tech) (05)

- 1. Bidhan Chandra Biswas Lineament extraction in hard rock terrain in Dharamapuri district, Tamil Nadu using image enhancement technique (2005)
- 2. Ankit Kumar Kupta Remote sensing and GIS for geoenvironmental study in and around Hogenakkal waterfalls, Tamil Nadu, India. (2004)
- 3. Ramesh Dhote Remote sensing and GIS study of Gandhari and Kal river basin, sub basin of Savitri River basin, Raigarh and Pune district, Maharastra (2004)
- 4. Gyanendra Kumar Landslide hazard zonation around Idukki and Ernakulam district, Kerala using Remote sensing and GIS techniques (2004)
- 5. Mahesh Wanjare Influence of coastal geomorphology on land use, Krishna delta, India, an attempt based on Remote sensing and ground truth data using GIS (2004)

M.Sc (17)

- Thanchuipou Phaomei Geomatics and Fuzzy-Based Method for Landslide Hazard Zonation Mapping along Ghat Road section of Salem-Yercaud, Tamil Nadu, India (2014)
- Baskar.M Macro Landslide Hazard Zonation Mapping Along Kuppanur Yercaud Ghat Road Section, Tamil Nadu, India (2014)
- 3. Saranya.K Remote sensing and GIS for change detection study at Magnesite mines, Salem, Tamil Nadu, India (2013)
- 4. Kamala. V & Manjula. E Remote sensing study of Thirumanimuttar river basin environment (2013)
- 5. Kasilingam. C Remote sensing and Structural mapping of Kadavur anorthosite complex (2013)
- 6. Kavitha.G –Landslide Hazard Zonation mapping using relative effect method along ghat road section of Kolli Hills, Tamil Nadu, India (2013)
- 7. Mani.S Landslide Hazard Zonation mapping using Probabilistic- frequency ratio model along Ghat road section of Kolli Hills, Tamil Nadu, India (2013)
- 8. Kamaraj.S Weathering and Slope Stability Studies Along Ghat Road Section of Kolli Hills, Tamil Nadu, India (2012)
- 9. Tamilarasan.K Remote sensing study of Kadavur Anorthosite Complex in Karur District, Tamil Nadu (2012)
- Gunasekaran.S Geoinformatics mapping in groundwater potential and Recharge estimation in part of Dharapuram, Udumalaipettai and Palladam Taluks, Tamil Nadu,India (2012)

- 11. Manikandan.P Lithological discrimination of Sittampundi Anorthosite Complex, Tamil Nadu using ASTER data (2012)
- 12. Somenath Kar Coastal geomorphological study in and around Daman using Remote sensing and GIS (2005)
- 13. Tandra Roy Remote sensing study of Granulitic terrain south east of Abu road and detailed shear zone analysis across Balaram nadi, Gujarat (2004)
- 14. Rajlaxmi rout Runoff resistance map generation using remote sensing and GIS in Mamundi river basin, Tiruchirapalli district, Tamil Nadu (2003)
- 15. Padmanava Dash Remote sensing and GIS for Cauvery river floodplain environmental mapping, Tiruchirappalli, Tamil Nadu, India (2003)
- 16. Saparshi Dasgupta Remote sensing for artificial recharge site selection in parts of Bhatsai river basin, Maharastra (2002)

M.Phil (08)

- 1. Kavitha.G Fluvial Geomorphology and profile modeling of Thoppaiyar subbasin, Tamil Nadu, India, (2014)
- 2. Mani.S Cut slope stability assessment using rock mass classification systems along Kuppanur Yercaud ghat road section, Tamil Nadu, India , (2014)
- 3. Shaymala J –Geoinformatics in feasibility study of Rail road link between morappur and Dharmapuri (2013)
- 4. Moothy G Morphometric analysis and hydrological study of Nagavati river, Dharmapuri District, Tamil nadu (2013)
- 5. Indirajeth Shallow subsurface geological studies for aquifer characterization (2009)
- 6. Palpadiyan Micro level Artificial Recharge studies in drought prone Nallampalli block, Tamil Nadu (2009)
- 7. Maheswari Geoinformatics in delineating groundwater potential zone in Nallampalli block, Dharmapuri district, Tamil Nadu (2008)
- 8. Ilamurugan O Remote sensing and GIS for Deep aquifer study in Veppanapalli area, Tamil Nadu (2008)

PUBLICATIONS

Books edited, Refereed Journal articles, Chapters in Book, Conference full papers, Abstracts, Popular articles and press coverage

Books Edited

- 1. **Anbazhagan. S**, (2013) Water Management: Historical Perspective and Development, Periyar University Publication. ISBN 978-93-83188-01-7 (p.150)
- 2. **Anbazhagan, S.** Venkatachalam, C.Muthusamy,A. and Tamilmaran, M. (2012), 12th Tamil Nadu Science Congress, Focal theme on "Natural Resource, Conservation, Protection & Green Technology", Periyar University Publications,ISBN 13-978-81-910508-5-1. (P.839)
- 3. **Anbazhagan, S.** Subramaniyan, S.K. and Yang. (2011), Geoinformatics in Applied Geomorphology, CRC press Taylor & Francis Group. (P.383)
- 4. **Anbazhagan, S.** Venkatachalapathy, R. and Neelakantan, R. (2009), Exploration geology and Geoinformatics, Macmillan, New Delhi. (P.265).

List of publications

Journal articles & Chapters in Book

- 1. Sajinkumar K.S., **Anbazhagan S.**, (2014) Geomorphic appraisal of landslides on the windward slope of Western Ghats, southern India, **Natural Hazards, Springer**, (DOI 10.1007/s11069-014-1358-2) (Impact Factor 1.958)
- Anbazhagan, S and Ramesh, V. (2014) Landslide Hazard Zonation mapping in Ghat road section of Kolli hills, India. Journal of Mountain Science, Springer. J. Mt. Sci. (2014) 11(5): Pp.1308-1325 (DOI: 10.1007/s11629-012-2618-9) (Impact Factor -0.763)
- 3. **Anbazhagan S**, Jothibasu A (2014) Modeling water quality index to assess shallow groundwater quality for sustainable utilization in South India, International Journal of Advanced Geosciences, 2 (2) (2014) Pp.122-129 (DOI: 10.14419/ijag.v2i2.3285)
- 4. **Anbazhagan S**, Jothibasu A (2014) Assessment of Hydroclimatic Condition in Extensive Groundwater Mining Area, Southern India, **Journal of Indian Geophysical Union** (In Press)
- 5. **Anbazhagan S**, Dasgupta S, and Jothibasu A (2014) Monitoring of Drought using Remote sensing data in Uppar Odai Sub-basin, Tamil Nadu, India. **International Journal of Earth sciences and Engineering**, (In Press)
- 6. Venkatesan A, Jothibasu A and **Anbazhagan S** (2014) GIS and Quantitative Geomorphic Analysis of Fluvial System: a case study from Southern India, Ramkumar et al (ed), Environmental Management of River basin Ecosystems, Springer-Verlag, Heidelberg, Germany (In Press)
- 7. **Anbazhagan S**, Jothibasu A (2014) Ground water indicators and sustainability of aquifer in parts of Tiruppur and Coimbatore districts, India, **Journal Geological Society of India, Springer** (Under Review)
- Sajinkumar K.S., Anbazhagan S., Rani V.R. & Muraleedharan C,(2013) A paradigm quantitative approach for a regional risk Assessment and management in a few landslide prone hamlets Along the windward slope of western ghats, India, Elsevier -International Journal of Disaster Risk Reduction, (http://dx.doi.org/10.1016/j.ijdrr, 2013.10.004)
- Anbazhagan, S., Ramesh, V., and Balamurugan, M. 2013. Geoinformatics in Infrastructure Facility Mapping and Development Planning in an University Campus. International Journal of Earth Sciences and Engineering. Vol.06, No.06 (1), December 2013, pp. 1533-1540. ISSN 0974-5904, SJR-0.15 & CSIR-NISCAIR INDIA (Impact Factor-0.042)
- 10. Ramesh V, Anbazhagan S, Mani S, and Kavitha G (2013) Mapping of Landslide Susceptibility Zones using Frequency Ratio, Relative Effect and Fuzzy Logic models: a study along Ghat Road Section of Kolli Hills, India, Environmental Earth sciences, Springer (Under Review)
- 11. **S. Anbazhagan,** A. Chatterjee, A.S. Sethupathi, Guru Balamurugan and V. Ramesh., (2013), "Remote Sensing and GIS for Landslide Hazard Mapping Case Study from

- Mumbai, India" In: R.A. Singh (ed) Landslides and Environmental Degradation, Gyanodaya Prakashan, Nainital, pp.89-106. (ISBN: 81-85097-90-9).
- S. Anbazhagan, R. Indhirajith, S. Uma Maheshwaran, A. Jothibasu, A. Venkatesan, V. Ramesh (2013) Resistivity Survey for Shallow Subsurface Aquifer Study in Nallampalli block, Tamil Nadu, India. Journal Geological Society of India (Accepted -In press)
- 13. Sajinkumar K.S., **Anbazhagan S.,** Pradeepkumar A.P. and Rani V.R. (2011), Weathering and Landslide occurrences in parts of Western Ghats, Kerala, India. **Journal Geological Society of India, Environmental Earth Sciences, Springer**, Vol. 78, September, 2011, pp.249-257. (Impact Factor 0.396)
- 14. **S. Anbazhagan,** N.K. Sainaba, S. Arivazhagan (2011), Remote sensing study of Sittampundi Anorthosite Complex, India, **Indian Society of Remote sensing** 10.1007/s12524-011-0126, pp. 299-311. (Impact Factor 0.45)
- 15. Arivazhagan, S., and **Anbazhagan, S.,** (2011), Characterization of reflectance spectra of lunar analog rocks: gabbro and norite, **Current Science.**, Vol.100.No.5, pp.761-768. Available online 10 March 2011. (Impact Factor 0.782)
- 16. **Anbazhagan, S.**, Arivazhagan, S., (2010), Reflectance spectra of analog basalts; implications for remote sensing of lunar geology, *Planet. and Space Sci.*,Vol.57, pp.1346-1358.available online 1 July 2009 (Impact Factor 2.5)
- 17. **Anbazhagan, S.,** and Arivazhagan S. (2010), Reflectance Spectra of analog Anorthosites; implications for lunar highland mapping, *Planetary and Space Science*, Elsevier, Vol.58, pp.752-760, available online 23 Dec 2009 (Impact Factor 2.5)
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- Expert member, Environmental assessment report on granite quarrying and its impact on Uthumalai surrounding environment. (Submitted to District Collector, Salem)
- Principal Investigator, Microlevel (Farm level) Artificial Recharge Studies in drought prone areas. Project report, Funded by University of Grants Commission, New Delhi
- Principal Investigator, Reflectance spectra of Lunar Analog rocks and minerals and optimization of spectral bands for lunar explorations. Project report, sponsored by PLANEX programme Physical Research Laboratory, Ahemedabad

 Archana M Nair., and Anbazhagan.S., 2003. Hyperspectral Remote sensing for mineral exploration – A review. ISRS 2003 Symposium, Thiruvananthapuram 9-12 December pp.1-16. Full paper in CD ROM

Participation in Workshop/Seminar/Conference

- 1. Workshop on "Mars Orbiter Mission"- Data Analysis & Science Plans, organized by Planetary Sciences & Exploration, , PLANEX, during 20-21 August 2014 at Physical Research Laboratory, Ahmedabad
- 2. DST Sponsored meet on HSRS PAMC of 'Hyperspectral Remote Sensing and applications', during November 22-23, 2013 at Gitam University Campus, Bangalore.
- 3. Workshop on 'Mars Orbitter Mission', organized by Physical Research Laboratory (PRL/ISRO), during April 26-27, 2013 at Ahmedabad.
- 4. National workshop on 'Recent scientific advances in the southern granulitic terrain', organized by GSI, during April 18-19, 2013 at Chennai.
- 5. DST Sponsored National workshop on 'Hyperspectral Remote Sensing and applications', during January 17-18, 2013 at M.S. University of Baroda, Vadodara.
- 6. 12th Tamil Nadu Science Congress on 'Natural Resources, Conservation, Protection and Green Technology', during August 23-25, 2012 at Periyar University, Salem.
- 7. Second Conference on the Lunar Highlands Crust, July 13-15, 2012, Bozeman, Montana, USA.
- 8. National Level Workshop on Geospatial Technology GST 2012 during 28th 30th June, 2012. Organized by Department of Civil Engineering, Jayam College of Engineering and Technology, Dharmapuri 636813, Tamilnadu. Sponsored by Natural Resources Data Management System, Department of Science and Technology, New Delhi.
- 9. ISRO -AAI Sponsored 'GNSS USER MEET' during 23rd of February 2012 at ISRO-satellite centre, Bangalore.
- 10. TNSCST Sponsored Orientation Programme on 'Research Activities in Science for College Teachers' during March 26-27, 2012 at Periyar University, Salem.
- DST Sponsored Brain Storming Session on Landslides during 12-13 March 2012, Organized by Gandhigram Rural Institute – Deemed University (GRI-DU), Gandhigram, Tamil Nadu.
- 12. UGC Sponsored Workshop on Recent Perspective on Southern Granulitic Terrain, during December 26, 2011 at Department of Geology, Periyar University, Salem.
- 13. Conference on Planetary Sciences and Exploration during 12-14 December, 2011 at Physical Research Laboratory, Ahmedabad , India.
- 14. International Conference on Corporate and Business Response to Climate Change From Awareness to Adoption "Transcending the Boundaries" during 7-9 December 2011, held at Department of Commerce, Periyar University, Salem, India.
- 15. Applications of Remote Sensing & GIS On Engineering Geology (RSGEG-2011), during August 22 27, 2011 at Department of Civil Engineering, Jayam College of Engineering & Technology, Dharmapuri, Tamil Nadu.
- 16. XI Tamil Nadu Science Congress (TNSC 2011) "Science and Technology Enabled Rural Development", during June 26 27, 2011 at Gandhigram Rural Institute, Dindigal, Tamil Nadu.
- 17. Chandrayaan-1 workshop on lunar geosciences, during March 30-31, 2011 at Space Application Centre (SAC), Ahmedabad.
- 18. Brainstorming Session on Mars Science and Exploration, March 24-25, 2011 at Physical research Laboratory (PRL), Ahmedabad.
- National Level Workshop on "Computer Applications in Modern Electronic Surveying" (CAMES-2011) on 17 & 18 February 2011 Organized in association with IIPC

- (Sponsored by AICTE, New Delhi), Jayam College of Engineering & Technology, Dharmapuri.
- 20. National Conference on "Tamil Cheviyal Ilakkiyangalil Kaanalagum Peridar Melanmai Chinthanaigal;" during 10-11, February, 2011 at Tamil University, Thanjavur, Tamil Nadu.
- 21. Workshop on Data Analysis of Chandrayaan-I imaging payloads HySI and TMC, Physical Research Laboratory and Space Application Center, Ahmedabad, during 28-30, November 2010.
- 22. Regional Workshop on "Artificial Recharge and Watershed Management" during 6th August, 2010, Organized by Department of Geology, Periyar University, Salem.
- 23. Seminar on Role of Periyar University in Social Welfare and Higher Education & 3rd TANFUFA PUTA Joint Seminar on Governance in Higher Education, during July 15 16, 2010 at Periyar University, Salem, Tamil Nadu.
- 24. International training on Environmental Impact Assessment with special regard to "Water Resources Management", during 12-16 November, 2001, AIT, Bangkok, Thailand.

Invited talks and chairing session

- Special Lectures delivered on "Geospatial Technology in Landslide hazard vulnerability mapping" – NRDMS sponsored summer/winter training Program is organizing a 21 days training programme titled "Geospatial Technology Significance Applications and Beyond" at Department of Earth Sciences, Annamalai University, 18th September 2014
- Special Lectures delivered on "Indian Mission to Moon" NRDMS sponsored summer/winter training Program is organizing a 21 days training programme titled "Geospatial Technology Significance Applications and Beyond" at Department of Earth Sciences, Annamalai University, 18th September 2014
- Special Lectures delivered on "Geospatial Technology in ground water resource exploration and mapping" – DST sponsored training Program is organizing a 21 days training programme titled "Geospatial Technology and Application" at JSS University, Mysore, 16th August 2014
- 4. Special Lectures delivered on "Geospatial Technology in Landslide studies" DST sponsored training Program is organizing a 21 days training programme titled "Geospatial Technology and Application" at JSS University, Mysore, 16th August 2014
- Special Lectures delivered on "Watershed management" at TISS is organizing a two weeks training programme titled "Basic and Advanced Course on GIS Skill Development & Training (BAGiS2014)" at TISS New Campus, Deonar, Mumbai, 25th June 2014
- 6. Special Lectures delivered on "Geoinformatics in Ground Water Potential Mapping" at TISS is organizing a two weeks training programme titled "Basic and Advanced Course on GIS Skill Development & Training (BAGiS2014)" at TISS New Campus, Deonar, Mumbai, 25th June 2014
- 7. Special Lectures delivered on "Geoinformatics in Ground Water Resource Mapping and Management" at TISS is organizing a two weeks training programme titled "Basic and Advanced Course on GIS Skill Development & Training (BAGiS2014)" at TISS New Campus, Deonar, Mumbai, 25th June 2014
- 8. Special Lectures delivered on "Geoinformatics in Sustainable Ground Water development" at TISS is organizing a two weeks training programme titled "Basic and Advanced Course on GIS Skill Development & Training (BAGiS2014)" at TISS New Campus, Deonar, Mumbai, 25th June 2014

- Valedictory & Special address on "Natural Resource Management Issues and Perspectives" (NRMIP- 2014) at Department of Economics, Periyar University, Salem, 10th March 2014
- 10. Special Lectures delivered on "**Geoinformatics in Landslide hazard mapping**" at Department of Geology, Utkal University, Bhubaneswar, 7th March 2014
- Special Lectures delivered on "Landslides in Western India" at School of Earth, Ocean and Climate Sciences, Indian Institute of Technology(IIT), Bhubaneswar, 7th March 2014
- 12. Special Lectures "Importance and Management of water resources" Organized by PWD (Groundwater Awareness Camp), Groundwater Division, Salem, at Knowledge Engineering College, 22nd January 2014
- 13. Inauguration of 'Astrophysics club' and delivered special address on 'Planetary science' at Kumaraswamy College of Engineering, Karur, Tamil Nadu, 13th August 2013
- 14. Invited lecture on 'Geoinformatics for Landslide Hazard Mapping- Case Studies From Western Ghats' DST-NRDMS Sponsored Short term training course on Introductory, intermediate and innovative Geomatics, VIT, Vellore, 11th June 2013
- 15. Special Lectures "Conservation of water and importance of groundwater" awareness programme Organized by PWD (Groundwater Awareness Camp), Groundwater Division, Salem, at Al-Ameen Engineering College, 27th February 2013
- 16. Special Lectures **"Water Scarcity and Issues"** Organized by PWD (Groundwater Awareness Camp), Groundwater Division, Salem, at Padmavani Women's Educational College, 7th February 2013
- 17. Special Lectures "Earth Science to society" at Department of Industry and Earth Sciences, Tamil University, Thanjuvur, 28 September 2012
- 18. Invited Lectures "Hyperspectral Remote Sensing Fundamentals and Application" at Jayam College of Engineering and Technology, Dharmapuri 636813, Tamil Nadu, During 28th 30th June 2012
- 19. Invited Lectures "Geoinformatics in Landslide Hazard Zonation Mapping" Madurai Kamaraj University, Madurai, 17th May 2012
- 20. Invited Lectures "Remote sensing & GIS in Landslide Hazard Zonation Mapping" PSNA Engineering college, Dindigal, 17th May 2012
- 21. Special Lectures "Importance of Research" on 'Research Activities in Science for College Teachers' March 26-27, 2012, Periyar University, Salem
- 22. Special Lectures "Thrust Areas, Writing project proposal in Geological Sciences" on 'Research Activities in Science for College Teachers' March 26-27, 2012, Periyar University, Salem
- 23. Special Lectures "Writing model project proposal by participants" on 'Research Activities in Science for College Teachers' March 26-27, 2012, Periyar University, Salem
- 24. Chief Guest Address in Department of Science and Technology Sponsored **Inspire Intership Science Camp-2012**, Organized by Jayam College of Engineering and Technology, Dharmapuri-636813, Tamil Nadu
- 25. Co-Chair person in the session titled "Disaster Mitigation A Social Responsibility" in the UGC Sponsored International Conference on Corporate and Business Response to Climate Change From Awareness to Adoption

- (Transcending the boundaries), held at Department of Commerce, Periyar University, Salem -11 on 7-8 and 9 December 2011
- 26. Guest lecture on "Aerial Surveying and Interpretation" at National Level Workshop on "Computer Applications in Modern Electronic Surveying" (CAMES-2011) on 17 & 18 February 2011 Organized in association with IIPC (Sponsored by AICTE, New Delhi), Jayam College of Engineering & Technology, Dharmapuri
- 27. Special address at National Level Workshop on "Computer Applications in Modern Electronic Surveying" (CAMES-2011) on 17 & 18 February 2011 Organized in association with IIPC (Sponsored by AICTE, New Delhi), Jayam College of Engineering & Technology, Dharmapuri
- 28. Chair the session in the National Conference on "Tamil Chevithal Ilakkiyangalil Kanalagum Peridar Melamai Chinthanaigal" 10-11, February- 2011, Tamil University, Thanjuvur
- 29. Key note talk on **'landslide in Western ghats'** April 9-10, GeoDM-2010 at Centre for Disaster Management, Tata Institute of Social Sciences, Bombay
- 30. Invited talk on 'India's mission to Moon: Chandrayaan1' March 31, 2010 in Kandasamy Kandar Arts and Science College, Namakkal
- 31. Invited talk on "Geoinformatics in Environmental Impact Assessment studies' in AICTE sponsored course on 'GIS techniques for Environmental Governance, Urban Management and Rural Development' 23rd April 2008, Bharathiyar University, Coimbatore
- 32. Invited talk on "Web GIS" in AICTE sponsored course on 'GIS techniques for Environmental Governance, Urban Management and Rural Development' 23rd April 2008, Bharathiyar University, Coimbatore
- 33. Invited talk on 'Geoinformatics in water resource and quality mapping' Bharathiyar University 2006
- 34. Chief guest of the Valedictory function for AICTE sponsored staff Development programme on **Remote sensing**, **GIS**, **GPS** for modern surveying and Earth Environmental Studies, at 24th March 2006 at Adhiyaman College of Engineering, Hosur
- 35. Invited talk on **Remote sensing/ GIS for Geoenvironmental study** during AICTE sponsored Staff Development programme on Remote sensing, GIS, GPS for modern surveying and Earth Environmental Studies, at 24th March 2006 at Adhiyaman College of Engineering, Hosur
- 36. Chair the session in the National Seminar on Environmental Impact Assessment and Management during 7th and 8th October 2005 at Erode Arts College, Erode
- 37. Invited talk on **Remote sensing for Environmental Impact assessment** in National Seminar on Environmental Impact Assessment and Management during 7th and 8th October 2005 at Erode Arts College, Erode
- 38. Invited talk on 'Geospatial Technology in Groundwater Resource Exploration and Mapping' National workshop on NRDMS related Spatial Technology for Developmental planning 29th -30th July 2005
- 39. Guest lecture on 'Geoinformatics on groundwater resource evaluation' Freiberg university of Technology and Mining, Freiberg, Germany 2005
- Chair the session in 'International Seminar On Geoinformatics' University of Mysore, December 2004
- 41. Guest lecture on 'Geoinformatics in landslide hazard zonation mapping' Freiberg university of Technology and Mining, Freiberg, Germany. 2004

- 42. Invited talk on 'Remote sensing and GIS perspectives in water resources' Centre for Remote sensing, Bharathidasan University, Tiruchirappalli 10th December 2002
- 43. Chair the Session in Conference on 'IT Enabled Spatial Data Services' Centre for Remote sensing, Bharathidasan University, Tiruchirappalli September 2002
- 44. Invited lecture on 'Remote sensing and GIS for micro level water resources planning in rural areas' National seminar on GISDAY, National Institute of Rural Development, Hyderabad. August 2002
- 45. Guest lecture on 'Sustainable Development on Water Resources' in Environmental Awareness Campaign, 2002 Arts and Science College, Manmad, Maharashtra
 - In addition, more than 20 guest lecturers were delivered in the refresher courses and training programmes