

Curriculum vitae

Dr. Guru Balamurugan

Associate Professor and Head

Department of Geology, School of Earth Sciences
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ACADEMIC QUALIFICATION

Certificate Course 'Water Resource' (2016) - ITC, Twente University, Enschede, The Netherlands

Ph.D. in Hydrogeology (Groundwater Modeling) (2008) - IIT Bombay, Mumbai, India

M.Tech in Remote Sensing (2003) - CERS, Bharathidasan University, Trichy, India

PG Diploma in Hydrogeology (2001) - Annamalai University, Annamalai Nagar, India

M.Sc in Applied Geology (1999) - National College, Bharathidasan University, India

B. Sc in Geology (1997) - National College, Bharathidasan University, India

RESEARCH

Study at ITC, The Netherlands (2015-16): Study the integrated Water Resource Assessments with emphasis on Surface Water. As part of this study carried out the HBV, HECHMS model for surface water resource concerning drought and flood in both urban and rural areas of sub-basins of Teba Basin, Spain.

Ph.D Research (Dec' 2003-April' 2008): Topic on "Remote Sensing, GIS and Modeling for Characterizing the Fractured Aquifer System in Hosur Region, Tamil Nadu, India" at Department of Earth Sciences, IIT Bombay, India.

DAAD Research Fellow (2006-07): The German Academic Exchange Service (DAAD) awarded a fellowship to carry out the part of Doctoral Research at Germany on 'groundwater modeling in fractured aquifer system in Precambrian hard rock terrain was carried out at TU-Bergakademie, Freiberg, Germany. Finally, the water level in the fractured aquifer system was predicted using the model concerning the variation of pumping rate and rainfall.

National Doctoral Fellow (AICTE-NDF) (2004-08): All India Council for Technical Education (AICTE) awarded a fellowship to carry out the doctoral research at Department of Earth Sciences, IIT Bombay. The objective of the study is to identify the fractured and deep aquifers in hard rock terrains from high-resolution satellite data and ground-based geophysical resistivity survey. The lineaments were identified from satellite imagery using conventional and image processing techniques. The geophysical resistivity survey is carried out along and across selected lineaments, and the pump test was carried out in observation chosen wells to get the aquifer characteristics like porosity, permeability, transmissivity, specific yield, and specific capacity and drawdown. Suitable groundwater potential and artificial recharge zones were identifying from weightage and ranking based integration analysis through ArcGIS software.

M.Tech Research (2002-2003): Topic on "Remote Sensing and GIS in Landslide Vulnerability Analysis Along Palani-Kodaikanal Ghat Road, Tamil Nadu, India" at CERS, Bharathidasan University, Tiruchirapalli, Tamil Nadu, India

AWARDS AND OTHERS

- IRO, TISS Grant, Studies at ITC, Enschede, The Netherlands - 2016
- Max Planck Institutes, Germany and TISS, India Research Grant (Urban aspiration studies) - 2013
- German Academic Exchange Program (DAAD) - 2007
- AICTE, NDF Scholarship (Pursuing Ph.D. at IIT Bombay) - 2004
- TN State Council for Sci. & Tech. Grant for Student Research Project - 1999
- Qualified the UPSC Geologist - 2008.
- Qualified the SET - 2006.

AREA OF SPECIALIZATION

- Geospatial Technology in Groundwater Exploration and Management
- Sustainable development of water resources
- Remote Sensing and GIS applications in Disaster Management Plan
- Natural Disaster Mapping and Damage Assessment – an Urban and rural regions
- Geospatial technology in EWS, rapid assessment, response and rehabilitation

MEMBERSHIP OF PROFESSIONAL SOCIETY

- Life Member: International Association of Hydrological Sciences (IAHS)
- Life Member: Indian Society of Remote Sensing (ISRS)
- Life Member: Indian Society of Geomatics (ISG)
- Member: American Geophysical Union (AGU)

CONTRIBUTION TO PLAN AND POLICY

- UNISDR (The United Nation Office for Disaster Risk Reduction) – Global Assessment Report on DRR
- State Disaster Management Plan for Jammu & Kashmir State
- Tribal Sub-Plan for Maharashtra State
- NRLM at Chhattisgarh State

UNIVERSITY ADMINISTRATIVE AND HONORARY WORK

- ✓ Member: School of Research Methodology, TISS, Mumbai (2015 to till date)
- ✓ Member: Board of Studies in Somaiya College, Mumbai (2014 onwards)
- ✓ Member: Institute Academic Council, TISS, Mumbai (2013 – 2015)
- ✓ Member: Students Scholarship/Fellowship, TISS, Mumbai (2010 - 2011)
- ✓ Program Coordinator in Disaster Management, Jamsetji Tata School of Disaster Studies, TISS (2010 - 2015)
- ✓ Research Coordinator in Disaster Management, Jamsetji Tata School of Disaster Studies, TISS (2010 - 2012)
- ✓ Placement Coordinator in Disaster Management, Jamsetji Tata School of Disaster Studies, TISS (2010 - 2015)
- ✓ Coordinator for Admission Process for several times, Jamsetji Tata School of Disaster Studies, TISS
- ✓ Examiner for Doctoral Thesis evaluations in various Universities and Institutes
- ✓ Expert / Resource person in Remote sensing / GIS courses
- ✓ Expert / Resource person in various training/workshops

RESEARCH GUIDANCE

Doctor of Philosophy (Ph.D.)

Completed: 04

Ongoing : 03 (Mr. Aarif S; Mr. Sachin D; Ms. Sujata K)

1. Dr. Hinotoli V Seema (2018): Hazard, Vulnerability and Risk Analysis in Landslide Prone Areas of Kohima Town, Nagaland Using Geo-spatial Technology.

2. Dr. Francis Sangma (2020): Analysis of Neo-Tectonic Signatures: Post 1950 Assam Earthquake in the Parts of Lower Subansiri Sub-Basin, Assam – Using Geospatial Technology

3. Dr. Somnath Bera (2021): Integrated modelling for assessment of landslide hazard and community resilience: An application in changing built- environment, Kalimpong (Himalayas)

4. Dr. Rahul R Hirwe (2021): Study on Solar Energy Potential and Green House Gas Mitigation in India using Geospatial Technology

Master of Philosophy (M.Phil)

Completed : 06 (till April 2019)

Master Degree (MSc/MA)

Completed : 61 (till April 2020)

Ongoing : 00

International Student Diplom:

Completed : 01 (till April 2020)

International Student Term Paper (IFRC-TISS international online Programme):

Completed : 14 (till April 2020)

COUNTRIES VISITED

- The Netherlands (2015-16) – ITC Netherland Visit, Institute Fellowship
- Germany (2006-07) – During DAAD Fellowship

PROFESSIONAL EXPERIENCES

(Research: 17 Years, Teaching: 13 years)

Associate Professor: (June 2020 onwards), Department of Geology, School of Earth Sciences, Central University of Tamil Nadu (CUTN), Thiruvavur, Tamil Nadu-610005, India.

Head of the Department: (August 2020 onwards) Geology, School of Earth Sciences, CUTN

Chairperson (May 2012 to June 2020), Centre for Geoinformatics, TISS, Mumbai

Associate Professor (March 2017 to June 2020) Centre for Geoinformatics, Jamsetji Tata School of Disaster Management. The Centre for Geoinformatics made significant contributions towards curriculum & infrastructure development, teaching, research and extension activities. I have developed new courses for M.Sc, M.Phil, and Ph.D. programs in school as well as for institute. Establish the infrastructure facilities in the institute right from the base, including space and lab setup. As co-coordinator for UGC-DRS, Rs.6.6 million worth of financial support brought to the school for necessary equipment facilities. In addition to administrative work, regular teaching and guiding for M.Sc students, M.Phil and Ph.D. scholars. Handled/handling several projects worth of Rs.4.2 million as PI and Co-PI supported by national and international agencies. In part of extension activities, organized several Seminars, Workshops and training programs. Centre for Geoinformatics lab is established in the institute apart from teaching to carry out the research in groundwater studies, disaster management plan and development, and other social sciences related aspects.

Assistant Professor (August 2008 – March 2017), Centre for Geoinformatics, Jamsetji Tata School of Disaster Studies.

Research Fellow: (2003-2004) ISRO sponsored research project entitled 'Integrated Remote Sensing and GIS study for Delineating Deep aquifer system in Precambrian crystalline terrain South India (parts of Tamil Nadu, Karnataka).

Groundwater Consultant: (1999-2000) Conducted geophysical resistivity surveys for groundwater exploration.

GRANT RECEIVED FROM VARIOUS AGENCIES

S.No	Agency	Project Title	Period	Amount/ PI/Co-PI
1	NRDMS, DST, Govt. of India	21days Training Programme on "Geospatial Technology" Emphasis on Basic Concepts and Applications."	2021-2022 (Ongoing)	Rs. 10,00,000 Dr. Guru Balamurugan (PI) Prof. Sulochana Shekhar (CoPI)
2	NRDMS, DST, Govt. of India	21days Training Programme on "Geospatial Technology" Emphasis on Basic Concepts and Applications."	2018-2020 Completed	Rs. 10,00,000 Dr. Guru Balamurugan Dr. V Ramesh
3	Ministry of Earth Sciences	Development of structural criteria for Aquifer mapping in the Precambrian Terranes of Ambaji region of North Gujarat, India	2016-2020 Completed	Rs. 22,70,000 Prof. TK Biswal, IIT Bombay Prof. E. Chandrasekar, IIT B Dr. Guru Balamurugan (Collaborator)
4	NRDMS, DST, Govt. of India	21days Training Programme on "Geospatial Technology" Emphasis on Planning and Policy Development."	2016-2017 Completed	Rs. 10,00,000 Dr. Guru Balamurugan Prof. S Anbazhagan Dr. V Ramesh
5	ICSSR, Govt. of India	Smallholders in Peri-urban Agriculture: To What Extent Do Inclusive Modern Supply Chains Aid Their Survival?	(2015-2017) Completed	Rs. 28,00,000 PI: Sudha N, IGIDR, Mumbai CoPI: Dr. Guru Balamurugan CoPI: Elumalai K, JNU, Delhi

6	TISS, R&D	The study of the largest river Island of Majuli: its erosion, morphological changes, and environmental impact using Geoinformatics	(2015-2017) Completed	Rs. 3,00,000 PI: Dr. Guru Balamurugan
7	IDBI	Groundwater Exploration and Management, Model village study, Leh	(2012-2014) Completed	Rs. 7,00,000 PI: Prof. S. Parasuraman Incharge: Dr. Guru Balamurugan
8	Max Planck Institutes and TISS	Study of periodical changes in physical features and its impact on natural resources in Mumbai (urban) using Geoinformatics techniques	(2013-2015) Completed	Rs.3,00,000/- PI: Dr. Guru Balamurugan
9	Tata Trust (JTCDM)	Mapping Conflict Patterns using GIS Applications	(2010-2012) Completed	Rs. 7,00,000 PI: Dr. Guru Balamurugan PI: Samrat Sinha
10	Tata Trust (JTCDM)	GIS Cell	(2008-2012) Completed	Rs.25,00,000/- PI: Prof. S. Parasuraman, Lab incharge: Dr. Guru Balamurugan

PUBLICATIONS

Book, Abstract volume edited, Refereed Journal articles, Chapters in Book, Published Abstracts, Full Conference papers, and Abstracts

Book

1. Thomas Oommen, Ramesh Veerappan, Balamurugan Guru, Himanshu Grover (2020). Disaster Management Curriculum in India. Rathore Academics Reseach Publications, New Delhi, India. ISBN: 978-81-94776-01-7.
2. Siddan Anbazhagan, Arumugam Jothibas, **Guru Balamurugan** (June, 2019). **Climate Change in Water Resources**. Allied Publishers, New Delhi, India. ISBN: 978-93-87997-82-0
3. Sneha Krishnan, **Guru Balamurugan** (June, 2011). Flood Risk Mapping, Publ: VDM Verlag. ISBN-10: 3639353838, ISBN-13: 9783639353839

Abstract Volume Edited

1. "Geomatics in Disaster Management" by **Guru Balamurugan**. Conference Abstract Volume by TISS - April 2010

List of publications

Journal articles (Peer reviewed)

1. Somnath Bera, Raquel Melo, Balamurugan Guru (2021). Assessment of exposed elements in a changing built environment by using an integrated model of debris flow initiation and runout (Kalimpong region, Himalaya). Bulletin of Engineering Geology and the Environment (2021) 80:7131–7152. <https://doi.org/10.1007/s10064-021-02352-w>. (Impact factor 4.298). (Scopus).
2. Sachin Damle, Shibu K. Mani, Guru Balamurugan (2021). Natech guide words: A new approach to assess and manage natech risk to ensure business continuity. Journal of Loss Prevention in the Process Industries. <https://doi.org/10.1016/j.jlp.2021.104564>. (Impact factor 3.660). (Scopus).
3. Somanth Bera, Vaibhav Kumar Upadhyay, **Balamurugan Guru**, Thomas Oommen (2021). Analyzing landslide inventory for integrated landslide susceptibility modeling using deep learning: A study in the Himalayas, India. Natural Hazards. <https://doi.org/10.1007/s11069-021-04731-8> .(Impact Factor 3.102). (Scopus)
4. Rudra Mohan Pradhan, Balamurugan Guru, Biswajeet Pradhan & Tapas Kumar Biswal (2021) Integrated multi-criteria analysis for groundwater potential mapping in Precambrian hard rock terranes (North Gujarat), India, Hydrological Sciences Journal (Taylor & Francis) <https://doi.org/10.1080/02626667.2021.1906427>. (Impact Factor 2.186). (Scopus)

5. Damle Sachin., Mani Shibu K., **Balamurugan Guru.**, (2021). Risk Management of Technological Accidents Triggered by Natural-Hazards (Natech): A Review of Relevant Indian Legislation. *Disaster Advances*. Vol. 14 (4) April (2021) pp. 95-106. (Impact Factor 0.333). (Scopus)
6. Rahul Rajaram Hirwe., **Balamurugan, Guru.**, (2021). Assessing Rooftop Solar Capacities for Green House Gas Mitigation Potential in India. *Disaster Advances*. Vol. 14 (4) April (2021) pp. 50-58. (Impact Factor 0.333). (Scopus)
7. Rahul Rajaram Hirwe, Somnath Bera, Shouraseni Sen Roy, **Balamurugan Guru** (2021). A Study on Solar and Green House Gas Mitigation Potential in India by using AHP Method and Geospatial Technology. *International Journal of Renewable Energy Research* Vol.11 (1), March, 2021: pp. 295-307. (Web of Science & Scopus)
8. Rahul R Hirwe, Krishnan, B., **Balamurugan, Guru** (2021). Leveraging on Repowering of Wind sites for potential Wind-Solar Hybrid Capacities: A Case Study. *Internal Energy Journal*. 21 (1). pp. 183-192 (Impact Factor 2.813) (Web of Science)
9. **Guru, Balamurugan.**, George, A, Liji., Kusuma, K. N., Kapoor, V. (2020). Artificial Recharge and its Impact on Groundwater Sustainability and Socioeconomic Status in Parts of Kumudvathi River Basin. In *Conference Geological Society of India*, pp. 49-59. <https://doi.org/10.17491/cgsi/2020/156159>. (Impact Factor 1.459). (Scopus)
10. Somanth Bera, **Balamurugan Guru**, Thomas Oommen (2020). Indicator-based approach for assigning physical vulnerability of the houses to landslide hazard in the Himalayan region of India. *International Journal of Disaster Risk Reduction*. 50, 101891. <https://doi.org/10.1016/j.ijdr.2020.101891>. (Impact Factor 4.320). (Scopus)
11. Somnath Bera., **Balamurugan Guru.**, Ranit Chatterjee., Rajib Shaw (2020). Geographic variation of resilience to landslide hazard: A household-based comparative studies in Kalimpong hilly region, India. *International Journal of Disaster Risk Reduction*. 46, 101456. <https://doi.org/10.1016/j.ijdr.2019.101456>. (Impact Factor 4.320). (Scopus)
12. Rolland Andrade., **Balamurugan Guru.**, (2020). Recharge site delineation through integrated geophysical hydrological and GIS approach – A basic understanding with case studies from Indian sub-continent. *Groundwater for Sustainable Development*. 10, 100343. <https://doi.org/10.1016/j.gsd.2020.100343>. (Scopus)
13. Elumalai Kannan., **BalamuruganGuru.**, Sudha Narayanan (2020). Spatial economic analysis of agricultural land usechanges: a case of peri-urban Bangalore, India. *Journal of the Asia Pacific Economy*, DOI: 10.1080/13547860.2020.1717285. (Impact Factor 0.971). (Scopus)
14. Francis Sangma., **Balamurugan Guru** (2020). Watersheds Characteristics and Prioritization Using Morphometric Parameters and Fuzzy Analytical Hierarchal Process (FAHP): A Part of Lower Subansiri Sub-Basin. *Journal of the Indian Society of Remote Sensing*. pp 1–24. Online ISSN 0974-3006: Print ISSN 0255-660X: <https://doi.org/10.1007/s12524-019-01091-6> . Impact Factor (1.563). (Scopus)
15. Rahul Rajaram Hirwe and **Balamurugan Guru** (2019). Study of Renewable Energy Certificate Market in India. *International Journal of Earth Sciences and Engineering (Special Issue on Green House Buildings and Infrastructures Renewable and Sustainable Energy Resources)*, (CAFET-INNOVA Technical Society) India. 2019 (April), 12 (02): 86-90. ISSN 0974-5904. DOI:10.21276/ijee.2019.12.0204.
16. Somnath Bera, **Balamurugan Guru**, Ramesh V (2019). Evaluation of landslide susceptibility models: a comparative study on the part of Western Ghat Region, India. *Remote Sensing Applications: Society and Environment* (Elsevier), 2019 (January), 13:39–52. ISSN: 2352-9385. <https://doi.org/10.1016/j.rsase.2018.10.010>. <https://www.sciencedirect.com/science/article/pii/S2352938517303099>. (Scopus)
17. Lakshmi Ram Prasath H, Kusuma KN, Chaitanya Sandaka, **Balamurugan Guru** (2019). Frequency Ratio Modelling using Geospatial Data to Predict Kimberlite Clan of Rock Emplacement Zones in Dharwar Craton, India. *International Journal of Applied Earth Observations and Geoinformation* (Elsevier). 2019 (February), 74:191-208. ISSN: 0303-2434. <https://doi.org/10.1016/j.jag.2018.08.019>: (Impact Factor: 5.933). (Web of Science)
18. Somnath Bera, Guru Balamurugan, Ramesh V, Habib A Mirdda, (2017). Landslide Susceptibility Zonation Using Relative Effect Model in Part of Mahad Taluka, Maharashtra, India. *International Journal of Earth Sciences and Engineering* (CAFET-INNOVA Technical Society), India. 2017 (October), 10(05):1020-1028. ISSN: 0974-5904. <https://doi.org/10.21276/ijee.2017.10.0513>.
19. Francis Sangma, **Guru Balamurugan** (2017). Morphometric Analysis of Kakoi River Watershed for Study of Neotectonic Activity Using Geospatial Technology. *International Journal of Geosciences* (Scientific Research Publishing), 2017 (November), 8:1384-1403. ISSN: 2156-8359. <https://doi.org/10.4236/ijg.2017.811081>. (Google Scholar)

20. **Balamurugan Guru**, Ramesh Veerappan, Francis Sangma, Somnath Bera (2017). Comparison of probabilistic and expert-based models in landslide susceptibility zonation mapping in part of Nilgiri District, Tamil Nadu, India. *Spatial Information Research (Springer)*. 2017 (October) 25 (6): 757-768. ISSN: 2366-3286. <https://doi.org/10.1007/s41324-017-0143-1>. (*Web of Science*)
21. **Guru Balamurugan**, Karthik Seshan, Somnath Bera (2017). Frequency ratio model for groundwater potential mapping and its sustainable management in cold desert, India. *Journal of King Saud University – Sciences*, (Elsevier). 2017 (July), 29(3):333-347. ISSN: 1018-3647. <http://dx.doi.org/10.1016/j.jksus.2016.08.003>. (Impact factor: 4.011). (*Scopus*)
22. Sema Hinotoli V., **Balamurugan Guru**, and Ramesh Veerappan (2017). Fuzzy gamma operator model for preparing landslide susceptibility zonation mapping in parts of Kohima Town, Nagaland, India. *Modeling Earth Systems and Environment (Springer)*: 2017 (June), 3(2): 499-514. ISSN: 2363-6203, <https://doi.org/10.1007/s40808-017-0317-9>. (*Web of Science*)
23. **Guru Balamurugan**, Veerappan Ramesh, Mangminlen Touthang (2016). Landslide susceptibility zonation mapping using frequency ratio and fuzzy gamma operator models in part of NH-39, Manipur, India. *Natural Hazards (Springer)*, 2016 (October) 84 (1) 465-488: ISSN: 0921-030X, DOI: 10.1007/s11069-016-2434-6. (Impact factor 3.102). (*Scopus*)
24. **Balamurugan Guru**, Anubhooti (2015). Urban growth effects for land use changes leading to natural hazards in parts of Mumbai metro city, India. *Disaster Advances (World Research Journal)*, India. 2015 (October), 10/2015;8 (10) 1-14. ISSN: 0974-262X. (Impact factor 0.333). (*Scopus*)
25. **Balamurugan Guru**, Sridhara Aravind M (2015). *Land use land cover changes in pre- and post-earthquake affected area using Geoinformatics – Western Coast of Gujarat, India*. *Disaster Advances (World Research Journal)*, India. 2015 (April), 02/2015; 8(4) 1-14. ISSN: 0974-262X. (Impact factor 0.333). (*Scopus*)
26. Siddharth Bhatia, **Guru Balamurugan**, Annu Baranwal (2014). *High arsenic contamination in drinking water hand-pumps in Khap Tola, West Champaran, Bihar, India*. *frontiers in Environmental Science (Frontiers Media SA)*, 2014 (November), 2: 1-8. ISSN: 2296-665X. <https://doi.org/10.3389/fenvs.2014.00049>. (Impact factor 4.581) (*Scopus*)
27. S. Anbazhagan, M.K. Das and **G. Balamurugan**., (2006). Hydrogeochemical Studies in Precambrian Hard Rock Aquifer System, Hosur. *Indian Journal of Geochemistry (Varanasi:Indian Association of Geochemists)*. 2009 (December), 21(2), 519-535. ISSN: 0970-9088.

Chapters in Book/Edited Volume

1. Balamurugan Guru., Pradheeps M., Anbazhagan S., Kusuma KN., (2021). Impact of brick kiln on agricultural land and environment: A case study. Accepted
2. A. Jothibas, S. Anbazhagan and **Guru Balamurugan** (2019). Impacts of Climate Change Scenario and Sensitivity Assessment of Ponnaiyar River Basin, Southern India. *Climate Change in Water Resources*, Edited by S. Anbazhagan, A. Jothibas, Guru Balamurugan. 06/2019: Published by Allied Publishers Pvt. Ltd, New Delhi, India, pages 1-10; ISBN: 978-93-87997-82-0.
3. Pranav Sethi, **Balamurugan Guru**, Anbazhagan S, Jothibas A (2019). Urban Growth and its Impact on Groundwater Resources and Sustainability in Gurugram Block, Using Geospatial Technology. *Climate Change in Water Resources*, Edited by S. Anbazhagan, A. Jothibas, Guru Balamurugan. 06/2019: Published by Allied Publishers Pvt. Ltd, New Delhi, India, pages 185-202; ISBN: 978-93-87997-82-0.
4. S Anbazhagan, A Chatterjee, AS Sethupathi, **Guru Balamurugan**, V Ramesh (2013): *Remote Sensing and GIS for Landslide Hazard Mapping – Case Study from Mumbai, India*. *Landslides and Environmental Degradation*, Edited by R.A. Singh, 01/2013: Gyanodaya Prakashan, Nainital, India, pages 89-106; ISBN: 81-85097-90-9.
5. Siddan Anbazhagan, **Balamurugan Guru**, T.K. Biswal (2011): *Remote Sensing in Delineating Deep Fractured Aquifer Zones*. *Geoinformatics in Applied Geomorphology*, First edited by Siddan Anbazhagan S. K. Subramanian Xiaojun Yang, 06/2011: chapter Remote Sensing in Delineating Deep Fractured Aquifer Zones: pages 205-229; CRC Press., ISBN: 13: 978-1439830482
6. Biswal, T. K, Anbazhagan S, Arivazhagan, S. **Guru Balamurugan**, Krishanu Bandypadhyay and Mary (2009): *Horizontal gliding and nappe sheets in the Charnockite hills, East of Salem, Tamil Nadu*. *Exploration Geology and Geoinformatics*, 1st edited by Anbazhagan. S, Venkatachalapathy, R. Neelakantan, R, 01/2009: pages 147-155; Macmillan India Ltd., ISBN: 10:0230-63867-8

7. **Balamurugan Guru**, S Anbazhagan, T.K. Biswal, K.N. Kusuma (2009): *Surface Temperature Mapping using ETM, TIR images in parts of Precambrian Terrain, India*. Exploration Geology and Geoinformatics, Edited by S. Anbazhagan, R. Venkatachalapathy, R. Neelakantan, 01/2009: chapter Surface Temperature Mapping using ETM, TIR images in parts of Precambrian Terrain, India.: pages 237-244; Macmillan., ISBN: 10:0230-63867-8.
8. S Arivazhagan, **Guru Balamurugan**, KN Kusuma, S Anbazhagan (2009): *Spectral Reflectance Studies of Lunar Analog Rocks*. Exploration Geology and Geoinformatics, Edited by S Anbazhagan, R Venkatachalapathy, R Neelakantan, 01/2009: chapter Spectral Reflectance Studies of Lunar Analog Rocks: pages 245-254; Mcmillan Publishers India Ltd., ISBN: 10:0230-63867-8.
9. **Balamurugan, Guru.**, Ramasamy S.M., (2006). Tectonic grains and slope with special reference to landslide in Palani to Kodaikanal Ghat road using remote sensing and GIS Techniques. Ed. Basavarajappa, H.T., Prakash Narasimha, K.N., Madesh, P., Suresh, R., Balasubramanian, A., **Remote sensing and GIS Applications**. Publ. Bellur Prakashana, Mysore, India. 96-102.
10. Anbazhagan, S., **Balamurugan, G.**, and Dasgupta, S., Persai. P., (2006), Remote Sensing and GIS for groundwater development plan in drought-prone area Tamil Nadu. In: Basavarajappa.H.T., PrakashNarasimha, K.N., Madesha.P., Suresh.B., and Balasubramanian.A., (eds). **Remote sensing and GIS Applications**. Bellur Prakashana, Mysore. 134-139.

Full Paper in Conference Proceedings/Documents

1. H. R. Rajaram and **G. Balamurugan**, 2020. "A Study on Green House Gas Mitigation from Solar Parks in India," 2020 International Conference and Utility Exhibition on Energy, Environment and Climate Change (ICUE), Pattaya City, Thailand, 2020, pp. 1-8, DOI: 10.1109/ICUE49301.2020.9307039.
2. **Balamurugan Guru**, Himanshu Baswant, Prakash Priyadarshi, and Debasmita Majumder (Jan. 2016): Damage Assessment Challenges and Disaster Development Conundrum - A case study of Leh flash flood 2010 using Geoinformatics. IEEE Workshop on Distributed Systems for Coordinated Disaster Management, IIM Calcutta, India January 2nd - 3rd, pp. 21-26; 2016.
3. **Balamurugan Guru** and Prakash Priyadarshi (Feb. 2015): Study the 2013 Flood Damages and Risk Assessment in Kedarnath Area using Geoinformatics Techniques. International Conference on Climate Change and Disaster Management. Organized by: International Academy of Astronautics, Kerala State Council for Science Technology and Environment, International Institute of Space Law February 26-28, 2015 Thiruvananthapuram.
4. Francis Sangma and **Balamurugan Guru** (Feb. 2015): Flood and Bank Erosion Analysis of Majuli Island, Assam using Geoinformatics. International Conference on Climate Change and Disaster Management. Organized by: International Academy of Astronautics, Kerala State Council for Science Technology and Environment, International Institute of Space Law February 26-28, 2015 Thiruvananthapuram.
5. **Balamurugan Guru**, Muslonkar Neha, Anubhooti Y (Dec. 2014): Study The Land Use and Land Cover Changes and CRZ in the Coastal Area of Ganjam District, Odisha. International Society of Photogrammetry and Remote Sensing (ISPRS), Mid-Term Symposium of the Technical Commission VIII -, Hyderabad, India; 12/2014
6. TK Biswal, **Guru Balamurugan**, S Anbazhagan (Feb. 2013): Groundwater movement in fractured hard rock terrain - A case study of Precambrian Crystalline formation using geo-informatics and field techniques. National Seminar on Eco-friendly Mineral Development & Groundwater Management, Udaipur, India; 02/2013
7. **Balamurugan Guru**, N Roy, Samrat S, Vikas N Kurne, Deepishika Purwar, Siddarth DD (Dec. 2011): Applications of GIS in Public Health Risk Reduction – ArcGIS approach. 12th ESRI India User Conference, Noida, India; pp. 1-11; 12/2011
8. **Guru Balamurugan.**, Anbazhagan, S., and Biswal, T.K., (Dec. 2008). Remote sensing for Delineating Deep Aquifer Zones, Hosur-Rayakottai Region, India. National Symposium on Advances in Remote Sensing Technology and Applications with Special Emphasis on Microwave Remote Sensing and Annual Convention of Indian Society of Remote Sensing (ISRS), Ahmedabad, Gujarat, India. December 18-20, 2008.

Presentation in Conferences/Seminars/Workshops

1. Swapnil S Malusare and **Balamurugan Guru**. Automatic detection of physically damaged in Disaster-Affected Areas. The World Symposium on Artificial Intelligence, Governance, and Disaster Management, 11th to 13th March 2019. Special Centre for Disaster Research at JNU. Delhi

2. **Balamurugan Guru** and Pranav Sethi (2018). Urban Growth and its Impact on Groundwater Resources in Gurugram Block, Using Geospatial Technology. International Conference on Impact of Climate Change on Water Resources. 12th and 13th July 2019 at Periyar University, Salem, India
3. **Balamurugan Guru** and Ankita Padhalni (2018). Vulnerability and Risk Analysis in the Seismic Zone V using Geospatial Technology – A case study of Kathgodam Town, Uttarakhand, India. International Conference on "Reinforcing Institutional Decision Making in Disaster Preparedness and Mitigation" 16th to 18th Feb 2018. Special Centre for Disaster Research at JNU. Delhi
4. **Guru Balamurugan** (2017). Socio-Economic Impact Assessment in Kumudvathi River Basin, Karnataka. International Conference on Innovative Methodologies in Rejuvenating Rivers & its Socio-Economic Impacts. 5th and 6th December 2017. Organized By Vyakti Vikas Kendra India (VVKI) & International Association of Human Values (IAHV), Bengaluru, India.
5. **Guru Balamurugan**, Ramesh V, and Pradheeps M (2017). Application of Geospatial Technology in Statelessness. Conference on Statelessness and Citizenship on 29th – 30th November 2017 organized by Tata Institute of Social Sciences, Mumbai.
6. Somnath Bera and **Balamurugan Guru**. Probabilistic approach for spatial prediction of landslide susceptibility zones of Mahad Taluka, Western Ghats, India. National Conference on Geoinformatics for Natural Resource Management 7-8 February 2017. Jamia Millia Islamia, New Delhi, India
7. A. Srikanth, **B. Guru**: (A16) *Using Geographical Information Systems in Road Traffic Injury Research: A Case Study of New Mumbai, India*. 17th World Congress on Disaster and Emergency Medicine. 06/2011; 26(S1). DOI:10.1017/S1049023X1100029X.
8. Y. Tanwar, V. Kaushik, N. Roy, S. Sinha, **B. Guru**: (A212) *The 2008 Mumbai Terrorist Attacks and the Changing Pattern of Violent Injuries*. 17th World Congress on Disaster and Emergency Medicine. 04/2011; 26. DOI:10.1017/S1049023X11002020.
9. Sneha Krishnan, **Guru Balamurugan** (2010): Flood Risk Mapping with Special Reference to Demographic and Physical Vulnerability Indicators, Parts of Mumbai, India. National Conference on 'Geomatics in Disaster Management', Mumbai, India; 04/2010.
10. Biswal T K, **Balamurugan Guru**, Tanushree Mahadani, Singh YK, Vinee Srivastava (2010): Tectonic activities related to landslide studies. National Conference on 'Geomatics in Disaster Management', Mumbai, India; 04/2010.
11. **Balamurugan Guru**, Vikas N Kurne (2010): Application of GIS in Post Flood Epidemics – A case study, Mumbai. Spatial Dimensions on Health Care - Use of GIS in Health Studies, Mumbai, India; 09/2010
12. **Guru Balamurugan**., Biswal, T.K., and Anbazhagan, S. (2008). Remote sensing based interpretation of lineaments around Hosur area, South India, and its tectonic significance. International Conference on Tectonics of the Indian Subcontinent (TOIS), March 3-6th 2008. Mumbai. 178.

Published in Magazines

1. Hinotoli V Sema and **Balamurugan Guru** (2017). Vulnerability and Risk Analysis of Female Population in Landslide Affected Areas of Kohima Town, Nagaland. GIS Resources (4): 14-16

Development Plan Reports

1. **Expert Member** - The planning and development process of the State Disaster Management Plan. Submitted to Government of Jammu and Kashmir (approved by Government in July 2015).
2. **Expert member** - The planning and development process of Tribal Sub-Plan (TSP). Submitted to State Government of Maharashtra (approved by Government in December 2015).
3. **Expert member** - The development of People-Centred Early Warning Systems and Disaster Risk Reduction - A Scoping Study of Public Participatory Geographical Information Systems (PPGIS) in India. Global Assessment Report on Disaster Risk Reduction 2015
4. **Expert member** - The planning and development process of National Livelihood Mission of Chhattisgarh State (approved by Government 2014)
5. **Expert member** - The Workshop on "Northern Indian Ocean, under the auspices of the United Nations, in support of the Assist the Regular Process for Global Reporting and Assessment of the State of the Marine

Environment, including Socio-economic Aspects" at Earth System Sciences Organisation, held from 27th-28th January 2014 at ESSO-NIOT (MoES, Govt. of India), Chennai".

6. **Balamurugan Guru** (June. 2013): Geo-Informatics in Disaster Response and EOC Operations. Emergency Operating System, State level Disaster Management Plan (SDMA), Government of Jammu and Kashmir, India, Srinagar; 06/2013

Disaster Response/Reports

1. Post Disaster field response and prepared the *Sikkim Earthquake report (2011)*.
2. Post Disaster field response and prepared the *Thane Cyclone report (2012)*.
3. Post Disaster field response and prepared the *Uttarakhand Flood report (2013)*.
4. Post Disaster field response and prepared the *Phailin Cyclone report (2014)*.
5. Post Disaster field response the *Chennai and Cuddalore Flood (2015)*.

CONFERENCE / TRAINING / WORKSHOP ORGANIZED

Conference Organized:

1. Convenor - National Conference on 'Geomatics in Disaster Management (GeoDM2010)' at Jamsetji Tata Centre for Disaster Management (JTCDM), TISS, Mumbai on 9th – 10th of April, 2010. This two days conference participants from different part of India from reputed Government Organisations, Institutes, Colleges, IT Sectors and NGO's

Training / Workshop Organized:

1. Coordinator - 21 Days Summer/Winter School On Geospatial Technology & It's Applications (GeoTiA-2019)" from 3rd December to 23rd December 2019 Sponsored by NRDMS-DST (Govt. of India).
2. Coordinator - 21 Days Summer/Winter School On Geospatial Technology & It's Applications (GeoTiA-2017)" from 20th March to 9th April 2017 Sponsored by NRDMS-DST (Govt. of India).
3. Convenor - Two weeks training programme on "Basic and Advanced Course on GIS Skill Development & Training" at the TISS, Deonar, Mumbai from 23rd June to 4th July 2014.
4. Convenor - Two weeks training programme on "Basic and Advanced Training on Geoinformatics for Architects and Civil Engineers" TISS, Deonar, Mumbai from 24th November to 5th December 2014.
5. Convenor – One week National Training Program on 'GIS Applications in Public Health Mapping (GISPM)' at Jamsetji Tata Centre for Disaster Management (JTCDM), TISS, Mumbai on 27th September to 1st October, 2010.
6. Convenor - Three days workshop on "GIS application and emphasis on Rural Development" from 12th to 14th September 2013, TISS, Hyderabad.
7. Convenor - Two days workshop on "GIS applications and emphasis on Livelihood and Resource Mapping" from 27th and 28th December 2013, TISS, Mumbai.
8. Coordinator - EDUSAT, launched by Geosynchronous Satellite Launch Vehicle (GSLV-F01) in September 2004, is India's first thematic satellite dedicated exclusively for educational services. The spacecraft is specially configured to relay through an audio-visual medium, employing multi-media multi-centric system, to create interactive classrooms.

INTERNATIONAL JOURNAL REVIEWER

- International Journal of Remote Sensing (Taylor & Francis)
- Journal of Hydrogeology (Springer)
- Water Resources Management (Springer)
- Stochastic Environmental Research and Risk Assessment (Springer)
- Spatial Information Research (Springer)
- Applied Geography (Springer)
- Springer Plus (Springer Open - Online publication)
- International Journal of Earth Sciences and Engineering (CAFFET-INNOVO)
- Geological Society of India (Springer)

- Indian Society of Remote Sensing
- Geocarto International
- Environment, Development and Sustainability
- The Journal of Indian Geophysical Union (Indian Geophysical Union)
- Indian Journal of Social Work (TISS)

TEACHING AND CURRICULUM DEVELOPMENT

- Programme Coordinator for M.Sc in Disaster Management program at JTCDM, TISS (2009 to 2015) and look after overall academic activities including course registration, timetable preparation and allotment of projects work.
- Taught courses for MPhil/Ph.D. scholars, and PG Degree Programmes at Institute level in the following subjects;
 - M.Phil/Ph.D. Courses (Three Courses: 2014 onwards)
 - Concepts of Spatial and Non Spatial data Analysis in GIS
 - Application of Geoinformatics in Natural Resource Mapping
 - Disaster Risk Reduction, Mitigation, Disaster Response and Recovery
 - IFRC and TISS Online Course (One Course: 2013 onwards)
 - Geoinformatics & Information Communication Technologies in Disasters
 - PG degree in Disaster Management (Four courses: 2008-2014)
 - Introduction of Remote sensing and GIS,
 - Remote Sensing and Digital Image Processing,
 - Application of Geoinformatics in Disaster studies,
 - Remote sensing and GIS application for Disaster Management Studies.
 - PG degree in Habitat Studies (Two courses: 2011-2014)
 - Introduction to Geographical Information Systems
 - Applications of Geo-informatics
 - PG degree in Ecology, Environment and Sustainable Development (Two courses: 2016 onwards)
 - Introduction to Remote Sensing and Geographical Information Systems
 - Applications of Geo-informatics in Environment
 - PG degree in Disaster Management (4 courses: 2014- 2018)
 - Course 1: Introduction to remote sensing and GIS (Compulsory for all students) - (2014-2018)
 - Concentration 1: Digital Image Processing and Image Interpretation Techniques - (2014-2018)
 - Concentration 2: Remote Sensing and GIS in Disaster studies - (2014-2016)
 - Concentration 3: Geoinformatics in Disaster Management - (2014-2016)
 - PG degree in Disaster Management (3 courses: 2018 onwards)
 - Introduction to Remote Sensing and GIS
 - Digital Image Processing and Spatial Analysis
 - Geoinformatics in Preparedness and Response
- As Chairperson of the Centre and Programme coordinator, the curriculum is developed for the following courses and introduced in the Institute as individual as well as a team
 - Individual:
 - MPhil/Ph.D. Optional courses
 - Applications of Geoinformatics in Water Governance and Policy
 - Team:
 - MPhil/Ph.D. in Disaster Management

Workshop/Seminar/Conference/Training Programmes Attended

1. IEEE Workshop on Distributed Systems for Coordinated Disaster Management, IIM Calcutta, India January 2nd - 3rd, 2016.
2. Technical Commission VIII Mid Term Symposium Pre Tutorials NRSC, ISRO, Hyderabad Dec. 6, 2014 March 8, 2015, National Remote Sensing Centre (NRSC), Hyderabad
3. Global Positioning System (GPS) at National Atlas and Thematic Mapping Organization (NATMO), Department Of Science and Technology, Kolkata, July' 2011.
4. Structural and geological mapping is carried out in and around Ambaji area, Rajasthan and Gujarat.
5. Training program on "Incident and Emergency Management" at LBS, National Academy of Administration, Mussoorie. May-June'2010.
6. Training/Tutorial on "Microwave Signature" at Space Application Centre (SAC), Ahmedabad. Dec-2008.
7. Attended the training on "Emerging trends in remote sensing: imaging spectroscopy and natural resource mapping" at Department of Earth Sciences, IIT Bombay, Dec'2008.
8. Attended the training on "The statistical analysis of compositional data" by Int. Assoc. for Mathematical Geology (IAMG) at TU-Bergakademie, Freiberg, Germany, June' 2007.
9. Participated in the Association of Petroleum Geologist (APG) 3rd Workshop and Expedition in Spiti Valley, Manali, and Kaza, H.P, India. July' 2006.
10. Participated in the DST training program on Mathematical Modelling of Groundwater Flow and Mass Transport through Theory and Hand on Training at, Jawaharlal Nehru University, New Delhi, India (Nov-Dec 2004).
11. Participated in the ERDAS training program on ERDAS Imagine Professional, Vector & Virtual GIS (January-2005) and ESRI training program on ArcGIS 9.0 at IIT Bombay, Mumbai, India (August-2004 and October-2004).

Expert Committee talks

1. *IIRS, Dehradun* - Aquifer modeling reference to Fractured Aquifer System (2008).
2. *Periyar University, India* - Remote Sensing and GIS for Groundwater zonation (2007).

Keynote Speaker/Invited Lecture/Resource Person/Panelist/Chairing the Sessions

1. Resource Person: Application of Remote Sensing and GIS in Disaster Management. UGC Human Resource Development Centre, University of Mumbai is conducting an Online Short Term Course on 'Disaster Management: An Integrated Approach' from 23rd to 29th of October 2020. 28th of October 2020.
2. Panelist: Develop a Network of Universities to Work on Disaster Related Issues. National Webinar Series - 2.0, Theme: Disaster Resilient India - 2030, Topic : P.M's 10 Point Agenda on DRR & U.N. Day. Unnat Bharat Abhiyan (UBA) Sree Ayyappa College for Women, Chunkankadai, Nagercoil In association with Disaster Management and Rehabilitation Trust (DMRT), Nagercoil, Kanyakumari District, Tamil Nadu. 24th of October 2020.
3. Resource Person: Environmental Studies using Geo-spatial Technology. UGC-Human Resource Development Centre, Jawaharlal Nehru University, New Delhi is organising 4th Refresher Online Course in Environmental Studies beginning from September 7th to 19th September, 2020. 15th of September 2020.
4. Speaker: Role of Geospatial mapping in Urban Health. Role of Geospatial Mapping in managing Pandemic: Applications and Interventions for Resilience. National Institute of Disaster Management Ministry of Home Affairs, Govt. of India. 28th of July 2020.
5. Subject expert/Invited Lecture: Dissemination of Landslide Hazard results for Societal benefits. National Brainstorming workshop on modeling fault zone induced surface mass transport in Himalayan Orogenic Terrains for the study of fault related hazards in Himalayan towns (with Financial Assistance from Ministry of Earth Sciences, Government of India). 16th to 17th March 2020. BITS, Mesra, Jharkhand
6. **Invited Lecture:** Understanding Geo-Informatics and Application of GIS tool in Project Management. Development Perspectives, Management and Practices (DPMP), Batch 3 at TISS AESDII. 22nd to 26th July, 2019.
7. **Invited Lecture:** Spatial data analysis i) Vector based and ii) Raster based. 21 days Training Programme on Capacity Building in Geospatial Technology at Himachal Pradesh University, Shimla. 18th June to 8th July 2019.
8. **Invited Lecture:** Institutional Framework for Disaster Management in India. Advances in Disaster Management and Risk Reduction: A Remote sensing and GIS Approach", Pillai HOC College of Engineering & Technology, Rasayani, Panvel, Maharashtra. 24th to 28th June, 2019.

9. **Invited Lecture:** Fundamentals of GIS and its Applications in Airports. Management Development Programme on Results Based and Advanced CSR Programming for Senior Executives of Airports Authority of India (Western Region) at TISS AESDII Knowledge Sharing Network. TISS, Mumbai. 13th to 15th June 2019
10. **Invited Lecture:** Mapping disaster zones and risk analysis - Indian Experience. International Training Programme on “Climate Resilient Housing Technologies” (Sponsored by Ministry of External Affairs, Government of India under ITEC), at National Institute of Rural Development and Panchayati Raj (NIRDPR), Ministry of Rural Development, Govt. of India. 18th March to 14th April 2019
11. **Invited Lecture:** Topic on “Introduction to Geospatial Technology”. National workshop on “Creating and Managing Unit Level Geo-Spatial Data Using Base Maps from Census of India” at International Institute for Population Sciences, Mumbai. 28th March to 1st April 2019
12. **Invited Lecture:** Topic on “Applications of Geospatial Technology for Mapping and Data Analysis”. National workshop on “Creating and Managing Unit Level Geo-Spatial Data Using Base Maps from Census of India” at International Institute for Population Sciences, Mumbai. 28th March to 1st April 2019
13. **Invited Lecture:** Topic on “Creating the Thematic maps from Census Data”. National workshop on “Creating and Managing Unit Level Geo-Spatial Data Using Base Maps from Census of India” at International Institute for Population Sciences, Mumbai. 28th March to 1st April 2019
14. **Invited Lecture:** Topic on “How to identify a significant research problem?”. ICSSR sponsored a national workshop on "Excellence in Research" at Chh. Shahu Institute of Business Education and Research, Kolhapur, Maharashtra. 25th and 26th Feb 2019
15. **Invited Lecture:** Topic on “How to choose the best study design?”. ICSSR sponsored a national workshop on "Excellence in Research" at Chh. Shahu Institute of Business Education and Research, Kolhapur, Maharashtra. 25th and 26th Feb 2019
16. **Member and Co-Chair the Session:** Session on “Coastal Aquifers”. International Conference on Impact of Climate Change on Water Resources (ICWR2018). Periyar University, 12th to 13th July 2018.
17. **Invited Lecture:** UGC Refresher Course on ‘Biodiversity Conservation and Sustainable Development’. Topic on ‘Remote sensing and GIS for Environmental monitoring’. Wednesday 13th June, 2018 during 11.30 am. to 1.10 pm. UGC Human Resource Development Centre , University Of Mumbai and K.J.Somaiya College of Science and Commerce, Vidyavihar. June 01 to June 21, 2018.
18. **Chair the Session:** topic on Disasters and Development: Convergence and Interdependence International Conference on “Reinforcing Institutional Decision Making in Disaster Preparedness and Mitigation.” Jawaharlal Nehru University, New Delhi, 16th to 18th of Feb, 2018
19. **Co-Chair the Session:** topic on “Government and CSR in River Rejuvenation” – Conference on River Rejuvenation and its Socioeconomics impact: Organized by International Association for Human Values and The Art of Living on 5th – 6th Dec 2017, Bengaluru, India.
20. **Invited Lecture:** topic on “Geospatial Applications in Mapping the Availability and Accessibility of Services to hamlets in parts of Udaipur districts: A Pilot study” – Geospatial World Forum (GWF) and NRSC-NDC User Interaction Meet (UIM) - 2017: 22nd - 25th January 2017, Hyderabad, India
21. **Keynote speaker:** topic on “Applications of GIS and Remote Sensing in Policy, Planning and Development” - International Conference on Conflict and Economic Development (ConfEcoDev 2016): Organized by Centre for Study of Political Violence (CSPV) & Centre on International Economic Studies (CIES), O. P. Jindal Global University, Sonapat from 26th - 27th of September 2016.
22. **Keynote speaker:** topic on “Mapping Inequality and Conflict in GIS. Tracing Patterns of Inequalities & Grievances in South Asia 3rd - 4th February 2016 Old Conference Hall Tata Institute of Social Sciences, Mumbai
23. **Keynote speaker:** topic on "**Disaster Response and Challenges**" at Periyar University is planning to organize a two days Workshop on 'Advances in Geoinformatics' during 11th -12th January 2016.
24. **Resource person:** topic on “ **National Disaster Management: Issues and its Impact**” at NRSC, ISRO, Hyderabad training on Space Inputs for Disaster Management – Predictability, Early Warning & Mitigation during 15th - 19th June 2015.
25. **Resource person:** topic on “**Using GIS for Mapping Conflict**” at TISS, Mumbai Ethic Power Relations (EPR) consultation during 3rd – 4th of August 2015
26. **Discussant:** The topic on **GIS, ICT, and Role of Technology**, Centre for Excellence in Disaster Research on 21st September 2015, JNU, New Delhi
27. **Invited Lecture :** Disaster Mitigation and Its Challenges in Multi Hazard Regions, Centre for Excellence in Disaster Research on 21st September 2015, JNU, New Delhi

28. **Chairing the session:** Round Table on **Disaster Response** 10th-11th September 2015, RISE2015 AmeriCares India and idobro, Mumbai
29. **Resource Person:** Social Welfare Systems: Shifting Contexts and Alternative Strategies Workshop TISS, Mumbai TISS Feb. 23, 2015, March 24, 2015. **GIS in Social Policy Targeting**
30. **Resource Person:** topic on **Geo-informatics in disaster management potential and challenges from field perspectives** - User Interactive Meet (UIM) 2015 Talk NRSC, ISRO, Hyderabad TISS, and NRSC Jan. 21, 2015 Jan. 22, 2015 National Remote Sensing Centre (NRSC), ISRO.
31. **Resource Person:** SPIP-NRLM Chhattisgarh Workshop Raipur Govt. of Chhattisgarh Oct. 22, 2013, Oct. 23, 2013. **Ecosystem-based Livelihoods: A Situational Analysis for Entrepreneurship Development in the State of Chhattisgarh.**
32. **Keynote Speaker:** topic on **Application of Geo-Informatics in a study of changes in Man-made and natural environment** - National Seminar on Geo-Spectrum: Towards New Frontier, Mumbai, India sponsored by UGC Feb. 26, 2013. Mandalis Ramnara in Ruia College, Matunga, Mumbai
33. **Keynote Speaker:** Demonstration of **GIS applications in Disaster Management** Workshop Belapur, India DDM, Konkan division March 8, 2013, March 8, 2013, Divisional Disaster Management Coordinator.
34. **Invited Lecture:** XI Conference of the Parties - COP11 Conference Hyderabad, India TISS Oct. 10, 2012, Oct. 13, 2012, Ministry of Environment and Forests, India Convention on Biological Diversity Prepared and Presented the various thematic maps and report of Indian coastal area
35. **Chair the Session:** International roundtable conference on "Humanitarian Logistics: Scope and Challenges" TISS, Mumbai 2010/12/13-14, and JTCDM, TISS.
36. **Invited Lecture:** National Seminar on "Management Thoughts about Natural Disasters in Ancient Tamil classical Literature" Tamil University, Thanjavur, 2011/02/10-11, and Tamil University, Tamilnadu
37. **Invited Lecture:** IT in Rural Development TISS, Tuljapur 2010/12/20-21 and TISS Presenter GIS applications in Rural development
38. **Invited Lecture:** Remote sensing and GIS application for Disaster Management Studies. State IAG, Kolkatta.
39. **Invited Lecture:** Fractured aquifer studies in Precambrian crystalline Terrain – Geoinformatics. Geological Society of India, Bangalore, India. 2009

Also, more than 30 guest lecturers delivered in the refresher courses and various training programmed

Declaration

I hereby declare that all the information contained in this resume is in accordance with facts or truths to my knowledge.

Thanks with regards,


(Guru Balamurugan)