

Dr. Y. SRINIVAS
Professor and Head,
Centre for Geo-Technology
Manonmaniam Sundaranar University
Abshikapatti, Tirunelveli – 627 012,
Tamilnadu. India.
Email: drysv@yahoo.co.in, ysrinivas@msuniv.ac.in
Mobile: 09894481242

EDUCATIONAL QUALIFICATIONS

Ph. D : Geophysics, Osmania University, Hyderabad, Telangana, India, 2000.

M. Sc. Tech : Geophysics, Centre for Exploration Geophysics, Osmania University, Hyderabad, Telangana, India , 1993.

B. Sc. (M. P. C) : Kakatiya University, Warangal, Telangana, India, 1990

Membership in learned Societies:

- Life member of Indian Geophysical Union, Hyderabad, India
- Life member of Indian Science Congress Association. India
- Life member of Association of Hydrologists of India

Awards

- Elected as FELLOW of Telangana Academy of Sciences for the year 2021
- Elected as FELLOW of Indian Geophysical Union (IGU) for the year 2014.
- Awarded Research Associateship (RA) by Council of Scientific and Industrial Research (CSIR), India, 2002
- Awarded Senior Research Fellowship (SRF) Extd., by Council of Scientific and Industrial Research (CSIR), India, 1999

Workshops/Seminars conducted:

- Chaired a session during Diamond Jubilee annual convention of Indian Geophysical Union held at CUSAT, Cochin during 22-24, November, 2023.
- Technical Committee member, Second Indian Near Surface Geophysics Conference & Exhibition conducted by European Association of Geoscientist & Engineers (EAGE) and AF Academy at New Delhi during 7-8, November, 2023.
- Chaired the session at the National Seminar on Marine Pollution and Eco;logical Degradation – MPAED-2022 during 27-29th July, 2022 held at Department of Geology, Malankara Catholic College, Mariagiri, Kanyakumari.

- **Convener** - One day national seminar on Advanced Technologies for Groundwater (ATG-20) held at M.S.University, Tirunelveli, Organised by Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli on 11th February, 2020.
- **Convener** - Two days national seminar on Sustainable Development and Management of Groundwater Resources (SDMGR-2019) held at M.S.University, Tirunelveli, Organised by Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli during February 1st & 2nd 2019.
- **Convener** - Two days national seminar on Recent trends in Geosciences held at M.S.University, Tirunelveli, Organised by Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli during February 15th & 16th 2018.
- **Convener** - Two days UGC XII Plan sponsored national seminar on Groundwater: Recent developments and Environmental issues held at M.S.University, Tirunelveli, Organised by Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli between February 26th & 27th 2014.
- **Organizing Secretary** -The two days UGC Merged scheme workshop on “Geospatial Technology developments in natural resource and disaster management” held at M.S.University, Tirunelveli, Organised by Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli between February 23rd & 24th 2012.
- **Organizing Secretary** - Two days UGC Merged scheme workshop on “The art of Research Grant Proposal Writing” held at M.S.University, Tirunelveli, Organised by Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli between 24th and 25th March 2011.
- **Organizing Secretary** - Three days International workshop on “Geomorphological Hazards” held at Hotel Sparsa, Kanyakumari, Organised by Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli and International Association of Geomorphologist (IAG) between 21 to 23rd July, 2010.
- **Organizing Secretary – National Seminar on Sustainability and conservation of Coastal Resources and Ecology”** during 17-18th July,2009. Sponsored by Tamil Nadu Land Use Board, State Planning commission, Chennai.
- **Organizing Secretary – Environmental awareness campaign among school children, college students and farmers** on 20th November, 2007 as part of the National Land Resource Conservation Week. Sponsored by Tamil Nadu Land Use Board, State Planning commission, Chennai.

Training / workshop Attended:

- Training Program attended on Coastal oceanography: Remote Sensing and GIS Applications organized during 29th January – 10th February, 2007 by Center for Studies on Bay of Bengal and sponsored by Indian National Center for Ocean Information Services (INCOIS), Hyderabad
- Participated in the one day seminar on Oil & Gas Industry- Academia Interface held on 5th April, 2007 at Institute of Remote Sensing, Anna University, Chennai – 25.

Participation in the Academic Activities:

- **Member Syndicate**, Manonmaniam Sundaranar University,
- **Member**, SCAA, Manonmaniam Sundaranar University, from March,2017 to till date.
- **Member-** Senate, Manonmaniam Sundaranar University, from March,2017 to till date.
- **Member**, Academic Council, Sri Sharada College for Women, Tirunelveli.
- **University Representative**, V O Chidambaram College, Tuticorin, Tamilnadu
- **University Representative**, Punitha Ohm Arts and Science College for Women, Kovilpatti for the academic year 2018-19.
- **Chairman, Board of Studies**, Centre for Geotechnology, M S University, Since March, 2017.

Research Guidance:

Ph.D : Awarded - 8 Ongoing - 3
M.Phil : Awarded - 2
M.Sc : Awarded - 6

Books/Proceedings

N Sundararajan, Y Srinivas (2021) Analytical Methods in the Interpretation of Self-Potential Anomalies—A Comprehensive Review published in Self-Potential Method: Theoretical Modeling and Applications in Geosciences. Springer pp.1-34. ISSN 2364-9119, ISBN 978-3-030-79332-6

Geospatial Technology Development in Natural Resource and Disaster Management (2012) edited by Chandrasekar N., **Srinivas Y.**, and Magesh N S (Sponsored by University Grants Commission, Govt. of India) Published by Bonfring, Tamilnadu, India

Invited Talks delivered:

- Delivered a talk (online) on Geophysical methods and their applications as a resource person on 21st Nov,23 during HRDC's Refresher Course conducted by Bharatidasan University, Tiruchirapalli, TN
- Delivered a special lecture on Application of Geophysics for Groundwater management in Indo-US bilateral work shop on Integrated Hydrochemical Modeling for Sustainable Development and Management of Water Supply Aquifers during 02-04, January,2020 at Shakthi Institute of Engineering and Technology, Coimbatore, Tamilnadu, India.

- Delivered a special lecture on Understanding the underground hidden structure of Korgai-Author Archeological site in national workshop on Korgai-Author Archeological Site on 19/12/2019 conducted by Department of Biotechnology, M S University, Tirunelveli.
- Delivered a talk on applications of Carbon element in geotechnology in the national seminar on Celebrations of 150th International year of the periodic Table – A Scientific Perspective at VOC auditorium on 12th December,2019 organised by Department of Renewable energy science, M S University, Tirunelveli.
- Delivered a talk on How to publish a research papers in Scopus indexed journals in the seminar on 14th September,2019 conducted by Department of Physics, St. Judes College, Thoothoor. Kanyakumari dt.
- Delivered a talk on Seismicity of India- An Overview at Department of Geography, Barathidasan University, Tiruchirappalli, Tamilnadu on 21/3/2019.
- Delivered a talk on Geophysical Applications to Subsurface Exploration at National seminar on Frontiers in Geophysics and Climate Change, at PG & Research Department of Physics, Holy Cross College, Tiruchirappalli, Tamilnadu during 21st& 22nd Febraury 2019.
- Delivered a talk on “Subsurface investigation using Geoelectrical methods” at Equitorial Geophysical Research Laboratory, Indian Institute of Geomagnetism (DST), Tirunelveli during IMPRESS program, 11th -14th February, 2019.
- Delivered a talk on Costal Groundwater and climate change application of Artificial Neural Networking during the Indo-US (IUSSTF) bilateral workshop on “Coastal groundwater dynamics combining future climate change and human development” held at Department of Earth Sciences, Pondicherry University, Pondicherry during 7th to 9th June, 2018.
- Delivered a lecture on Application of Electrical methods to Delineate salt and freshwater Interfaces during the Science Academies Lectures Workshop on Geophysical Prospecting: present and future Scenario at PG research department of Geology, V.O.C college, Tuticorin, during 26-27, July, 2018.
- Delivered a lecture on Application of Electromagnetic methods for subsurface investigation during the Science Academies Lectures Workshop on Geophysical Prospecting: present and future Scenario at PG research department of Geology, V.O.C college, Tuticorin, during 26-27, July, 2018.
- Delivered a talk on “Geophysical imaging for subsurface characterization” at Equitorial Geophysical Research Laboratory, Indian Institute of Geomagnetism (DST), Tirunelveli during IMPRESS program, February, 2015.
- Delivered a talk on “Seismicity of India” at Equitorial Geophysical Research Laboratory, Indian Institute of Geomagnetism (DST), Tirunelveli during National Science Day celebrations from 27-28, February, 2014.

Research Papers Published

1. Mathiazhagan Mookiah, Srinivas Yasala , Saravanan Sakthivel, Chandrasekar Nainarpandian , Ramji Vaidhyanathan and Swaster Robert (2023). Identification of Artificial Groundwater Recharge System near Ayyankulam Village of Tirunelveli, Tamilnadu, India. Using Electrical and Magnetic Survey. HSOA Journal of Atmospheric & Earth Science. DOI: 10.24966/AES-8780/100042
2. Akilan A, Satyanarayanan M , Balaji S , Nandan M.J., Venkateshwarlu M. , Kumar S, **Srinivas Y** , Satyanarayana H.V.S. , Pandey O.P (2023). Correlating volcanic emissions from Andaman-Sumatra region to atmospheric pollution in Delhi: A possible scenario. Geosystems and Geoenvironment 2, Elsevier, 100142
3. Jose A A and Srinivas Y (2023) An assessment on the quality of groundwater in Chennai's urbanised areas. International Journal of Global Warming 29 (4), 406-418
4. Rajkumar Stanly, **Srinivas Yasala**, Nithya C. Nair and Arunbose Subash, (2022). Combined geospatial, geophysical and hydrochemical studies on coastal aquifer at Muttom–Mandaikadu area, Tamilnadu, India. Environmental Science and Pollution Research (Springer Publications) <https://doi.org/10.1007/s11356-022-19473-8> (**Impact Factro 5.19**)
5. Selvakumar S, Chandrasekar N, **Srinivas Y**, Selvam S, Kaliraj S, Magesh N.S., and Venkatramanan S, (2022). Hydrogeochemical processes controlling the groundwater salinity in the coastal aquifers of Southern Tamil Nadu, India. Marine Pollution Bulletin (Elsevier Publication), Vol. 174 113264 (**Impact Factor 7.0**)
6. Arunbose, S., Srinivas, Y., Rajkumar, S., Nair, N. C., & Kaliraj, S. (2021). Remote sensing, GIS and AHP techniques based investigation of groundwater potential zones in the Karumeniyar river basin, Tamil Nadu, southern India. Groundwater for Sustainable Development, Elsevier, 14,100586. <https://doi.org/10.1016/j.gsd.2021.100586>
7. Arunbose, S., Srinivas, Y., & Rajkumar, S. (2021). Efficacy of hydrological investigation in Karumeniyar river basin, southern Tamil Nadu, India using vertical electrical sounding technique: A case study. MethodsX, Elsevier, 8, 1215. <https://doi.org/10.1016/j.mex.2021.101215>
8. Rajkumar Stanly, Srinivas Yasala, Rema Vaishali Murugesan (2021). Hydrological subsurface investigation using geophysical electrical and magnetic methods in and around Valliyar river basin, India. Results in Geophysical Sciences, Elsevier, 7, 100022
9. Stanly, R., Yasala, S., Oliver, D. H., Nair, N. C., Emperumal, K., & Subash, A. (2021). Hydrochemical appraisal of groundwater quality for drinking and irrigation: A case study in parts of Southwest coast of Tamil Nadu, India. Applied Water Science, Springer 11(3). <https://doi.org/10.1007/s13201-021-01381-w>. (**Impact Factor 5.4**)

10. Karthikeyan E, Satishkumar S, Srinivas Yasala, Emperumal K and Ranjith Dev Inbaseelan C (2021). An investigation of Response of the Tropical Cycle Ockhi in the Equatorial Ionosphere over the Indian region. *Indian Journal of Science and Technology*. Vol 14(36), pp. 2832-2841.
11. Emperumal Karthikeyan, Yasala Srinivas, Kaliappan Emperumal and Sundararaman Satish Kumar (2020). Ionospheric Responses to the consecutive earthquakes over Canadian sector. *Indian Journal of Radio and Space Physics*. Vol. 49,pp. 162-170.
12. Stanley Raj A , Hudson Oliver D, **Srinivas Y** and Angelena J P, (2020). ResinvANFIS v1.0 – A Versatile MATLAB Tool for Inverting Geoelectrical Resistivity Sounding Data using Neuro Fuzzy Technique. *International Journal of Neuroinformatics*. Vol.1(1), pp.1-12.
13. Stanley Raj A , Viswanath J, Angelena J P, Hudson Oliver D and **Srinivas Y** (2020). Enhanced Behavior of Adaptive Neuro-Fuzzy Inference System (ANFIS) Algorithm over Artificial Neural Networks (ANN) in application of Geoelectrical Resistivity Data. *International Journal for Modern Trends in Science and Technology*. Vol.6(4), pp.18-28.
14. Stanley Raj A , Hudson Oliver D, **Srinivas Y** and Viswanath J (2020) . The impact of rainfall on groundwater table in Chennai city, India: GIS and wavelet approach. *Sustainable Water Resources Management (Springer)* , 6:85.
15. Stanley Raj A , **Srinivas Y**, Damodharan R, Hudson Oliver D, and Viswanath J (2020) . Presentation of neurofuzzy optimally weighted sampling model for geoelectrical data inversion. *Modeling Earth Systems and Environment (Springer)* , <https://doi.org/10.1007/s40808-020-00935-2>
16. Nithya C. Nair, **Srinivas Y.**, Rajkumar S.and Arun Bose S (2019) Geoelectrical investigation to delineate the groundwater potential aquifers in Chittar river basin, Southern India. *Intl.J.River Basin Management*. (Taylor & Francis). doi.org/10.1080/15715124.2019.1700514
17. Nithya. C. Nair, **Srinivas Y**, Magesh N.S and, Kaliraj S, (2019). Assessment of groundwater potential zones in Chittar basin, Southern India using GIS based AHP technique, *Remote Sensing Applications: Society and Environment*. (**Elsevier**) Vol.15: 100248
18. Rajkumar S., **Srinivas Y.**, Nithya C Nair and Arunbose S (2019) Groundwater quality and vertical electrical sounding data of the Valliyar River Basin, South west coast of Tamilnadu, India. *Data in brief (Elsevier)* . Vol.24.
19. Balasingh John Samuel S.,**Srinivas Y**, and. Subramanian R (2019). A case study on pre- and post-monsoon seabed topography using bathymetry near Kalingapatnam, Srikakulam District, Andhra Pradesh (India). *J. Ind. Geophy. Union*, v.23, no.2, pp: 164-172.
20. Stanley Raj A, Viswanath J Hudson Oliver D, **Srinivas Y** (2018), Tollgate neural networks (TNN) model with time bound learning methodology for futuristic approach in climatic data analysis. *Modeling Earth Systems and Environment (Springer Publications)* Vol.4, pp.1331–1339

21. Balasingh John Samuel S., **Srinivas Y.**, Arunbose S and Karthikeyan E. (2018). Single Point Ocean Current Measurements during two different seasons near Kalingapatnam region – Case Study International Journal of Advanced Scientific Research and Management, Vol. 2 Issue 3, pp. 207-212.
22. Arunbose, S., Srinivas, Y., Rajkumar, S., Nithya, C., & Junais, C. (2018). Evaluation of groundwater condition using geo-electrical soundings in parts of Tiruchendur taluk, Tamilnadu, India. International Journal of Computer Sciences and Engineering, 6(7), 137- 144. <https://doi.org/10.26438/ijcse/v6i7.137144> 7.
23. Rajkumar,S, Arunbose S, NithyaC.Nair, Karthikeyan E, Srinivas Y. (2018). Geochemical and Geophysical Assessment of Groundwater Quality and Suitability for Drinking Purposes in and around Udangudi Area, Tuticorin, Tamilnadu, India. International Journal of Advanced Scientific Research and Management, 3(7).
24. Arunbose S, Rajkumar S, Immanuel David T, Srinivas Y, Rema Vaishali M. (2018). An analysis on changing dynamics of Land use Land cover in Tiruchendur area, Tuticorin, Tamilnadu. International Journal of Research in Advent Technology, 6(7). 9.
25. Pradeepa F, Jerin, Shaji, Raj Kumar S, Arunbose S and Y.Srinivas. (2018). Delineation of Aquifer flow using electrical geophysical method in Aayankulam-Radhapuram which shows exceptional drainage and flow pattern. International journal of basic and applied research, 8(8).
26. S. Balasingh John Samuel, Y. Srinivas, S. Arunbose E. Karthikeyan. (2018). Single Point Ocean Current Measurements during two different seasons near Kalingapatnam region – Case Study. International Journal of Advanced Scientific Research and Management, 2(3).
27. Nithya. C. Nair, Srinivas Y, Kaliraj S, Raj Kumar S and ArunBose S. (2018). Geological and hydrogeological characteristics of Hard rock areas in southern Tamil Nadu- A case study. International journal of basic and applied research.
28. Stanley Raj A, Hudson Oliver D, **Srinivas Y** (2017), “Goelectrical data processing using Neuro fuzzy pattern recognition scheme for unambiguous subsurface modelling”, **International Journal of Hydrology Science and Technology.**(**Inderscience Enterprises Ltd.**) Vol. 7 , No. 4, 2017
29. Kaliraj S, Chandrasekar N , Ramachandran K K, **Srinivas Y**, and Saravanan S (2017). Coastal land use and land cover change and transformations of Kanyakumari coast, India using remote sensing and GIS. The Egyptian Journal of Remote Sensing and Space Sciences.(**Elsevier**) Vol. 20, pp. 169–185.
30. Nithya. C. Nair, **Srinivas Y**, Chandrasekar N, Kaliraj S, Magesh N.S (2017). Morphometric analysis using remote Sensing and GIS techniques in Chittar sub-basin, Tamilnadu, India. International Journal of Advancement in Remote Sensing, GIS and Geography. Vol.5, No.1, 60-71
31. A.Stanley Raj, D.Hudson Oliver, **Y.Srinivas**, Viswanath J (2017). ”Wavelet based analysis on rainfall and water table depth forecasting using Neural Networks in kanyakumari district, Tamil Nadu, India”, **Groundwater for Sustainable Development.** (**Elsevier**) Vol 5, pp.178-186.

32. Stanley Raj A., Hudson Oliver D., and **Srinivas Y** (2016). Forecasting groundwater vulnerability in the coastal region of southern Tamil Nadu, India - a fuzzy based approach. **Arab. J Geosci. (Springer Publications)** Vol.9, pp.351(13 pages)
33. Akilan A , Balaji S., Padhy S., Abdul Azeez K.K and **Srinivas Y** (2016). The Plate kinematics of Burmese micro-plate relative to its surroundings. **Arab. J Geosci. Springer Publications**, Vol. 9:333 (8 pages)
34. Stanley Raj A., Hudson Oliver D., **Srinivas Y** and Viswanath J (2016). Wavelet denoising algorithm to refine noisy geoelectrical data for versatile inversion. **Model. Earth Syst. Environ. (Springer Publications)**. Vol.2:36.
35. Gopinath S, Srinivasamoorthy K, Saravanan K, Suma C S, Prakash R, Senthilnathan D, Chandrasekaran N, **Srinivas Y** and Sarma V S (2016). Modeling saline water intrusion in Nagapattinam coastal aquifers, Tamilnadu, India. **Model. Earth Syst. Environ. (Springer Publications)**. Vol.2:2,
36. **Srinivas Y.**, Hudson Oliver D., Stanley Raj A., and Chandrasekar N (2015). Geophysical and geochemical approach to identify the groundwater quality in Agastheeswaram Taluk of Kanyakumari District, Tamil Nadu, India. **Arab. J Geosci. Springer Publications**. DOI 10.1007/s12517-015-1989-y.
37. **Srinivas Y.**, Aghil T. B., Hudson Oliver D., Nitya C Nair., and. Chandrasekar N (2015). Hydrochemical characteristics and quality assessment of groundwater along the Manavalakurichi coast, Tamil Nadu, India. **Appl Water Sci. Springer Publications**. DOI 10.1007/s13201-015-0325-8.
38. Stanley Raj A, Hudson Oliver D and **Srinivas Y** (2015). Geoelectrical Data Inversion by Clustering Techniques of Fuzzy Logic to Estimate the Subsurface Layer Model. **International Journal of Geophysics, Hindawi Publishing Corporation**. Volume 2015, Article ID 134834, 11 pages
39. Stanley Raj A, Hudson Oliver D and **Srinivas Y** (2015). An automatic inversion tool for geoelectrical resistivity data using supervised learning algorithm of adaptive neuro fuzzy inference system (ANFIS). **Model. Earth Syst. Environ. (Springer Publications)** DOI 10.1007/s40808-015-0006-5, pp.1:6
40. Akilan A , Abdul Azeez K.K, Balaji S., Schuh H. and **Srinivas Y** (2015). GPS derived zenith total delay (ZTD) observed at tropical locations in south India during atmospheric storms and depressions. **Journal of Atmospheric and Solar-Terrestrial Physics (Elsevier)**, <http://dx.doi.org/10.1016/j.jastp.2015.02.003>. Volumes 125–126, April 2015, Pages 1-7.
41. **Srinivas Y**, Saravanan S and Kathiresan M, Hudson Oliver D and Chandrasekar N (2014). An overview of geophysical resistivity model on groundwater distribution in tsunami affected area, South West Coast of India. **Int. J. Hydrology Science and Technology**, Vol. 4, No. 4, pp. 265-281.
42. **Srinivas Y.**, Hudson Oliver D., Stanley Raj A., and Chandrasekar N (2014). Delineation of groundwater potential zones along the coastal parts of

- Kanyakumari district, Tamilnadu. **J. Ind. Geophys Union**. V.18. no.3, pp. 356-362.
43. **Srinivas Y.**, Hudson Oliver D., Stanley Raj A., and Chandrasekar N (2014). Quality assessment and hydrogeochemical characteristics of groundwater in Agastheeswaram taluk, Kanyakumari district, Tamil Nadu, India. **Chinese Journal of Geochemistry, Springer Publications** DOI: 10.1007/s11631-014-0681-3, V. 33, pp.221–235
 44. Stanley Raj A, **Srinivas Y**, Hudson Oliver D and Muthuraj D (2014). A novel and generalized approach in the inversion of geoelectrical resistivity data using Artificial Neural Networks (ANN). *J. Earth Syst. Sci.* (**Springer publications**). v.123(2), pp.395-411.
 45. Simon Peter T, Chandrasekar N, Selvakumar S, Kaliraj S, Magesh N S, **Srinivas Y** (2014). Tidal effects on estuarine water quality through a sandy marine beach: a case study in Vembar estuary, southeast coast of Tamil Nadu, India, *Journal of Coastal Sciences*, 1(1): 6-14
 46. Selvakumar S, Chandrasekar N, **Srinivas Y**, Simon Peter T, Magesh N S (2014) Evaluation of the groundwater quality along coastal stretch between Vembar and Taruvaikulam, Tamil Nadu, India: a statistical approach, *Journal of Coastal Sciences*, 1(1): 22-26
 47. Aghil T B, Kapil Mohan, **Srinivas Y**, Rahul P, Jose Paul, Robin Alby E, Nithya C. Nair and Chandrasekar N (2014) Delineation of electrical resistivity structure using Magnetotellurics: a case study from Dholera coastal region, Gujarat, India, *Journal of Coastal Sciences*, 1(1): 41-46
 48. Akilan A., Balaji., S., and **Srinivas., Y** (2014). Are the tectonic blocks around the Wharton basin dispersed during an earthquake? – A GPS-Geodesy solution. *Indian Journal of Geo-Marine Sciences* Vol. 43 (4), April 2014, pp. 453-462.
 49. Akilan A., Balaji., S., **Srinivas., Y** and Yuvaraj N (2013). Plate Motion Predictability using Hurst Exponent Applied to the Maitri-Antarctica GPS Network. *Journal of Geological Society of India* (**Springer publications**). v.82, pp.613-620
 50. Chandrasekar N., Selvakumar S., **Srinivas Y.**, John Wilson J S., Simon Peter and Magesh N S (2014). Hydrogeochemical assessment of groundwater quality along the coastal aquifer of southern Tamil Nadu, India. **Environmental Earth Sciences** (**Springer Publications**). DOI 10.1007/s12665-013-2864-3), Vol.71(11). pp. 4739-4750
 51. **Srinivas Y.**, Muthuraj D., Hudson Oliver D., Stanley Raj A., and Chandrasekar N (2013) Environmental applications of Geophysical and Geochemical methods to map groundwater quality at Tuticorin, Tamilnadu, India. **Environmental Earth Sciences, Springer Publications** (DOI 10.1007/s12665-013-2502-0). v.70, pp.2143–2152
 52. **Srinivas Y.**, Hudson Oliver D., Stanley Raj A., and Chandrasekar N (2013). Evaluation of groundwater quality in and around Nagercoil town, Tamilnadu,

- India: an integrated geochemical and GIS approach. **Appl Water Sci. Springer Publications** DOI 10.1007/s13201-013-0109-y, V3, pp.631–651
53. **Srinivas Y.**, Stanley Raj A., Hudson Oliver D., Muthuraj D., and Chandrasekar N (2013). A Novel and proficient algorithm for the inversion of geoelectrical resistivity data using Adaptive Neuro Fuzzy Inference System (ANFIS). *International Journal of recent scientific research (IJRSR)* Vol. 4(4), pp.485 -489.
 54. **Srinivas Y.**, Stanley Raj A., Hudson Oliver D., Muthuraj D., and Chandrasekar N (2012). Geoelectrical Inversion and Evaluation of Lithology Based on Optimized Adaptive Neuro Fuzzy Inference System (ANFIS). **Studia Geophysica et Geodaetica, Springer Publications** (DOI) 10.1007/s11200-011-1179-7), Vol.57(3), pp. 520-534.
 55. **Srinivas Y.**, Stanley Raj A., Hudson Oliver D., Muthuraj D., and Chandrasekar N (2012). Estimation of subsurface strata of earth using adaptive neuro-fuzzy inference system (ANFIS) . **Acta Geod. Geoph. Hung., Springer Publications** Vol. 47(1), pp. 78–89 . DOI: 10.1556/AGeod.47.2012.1.7
 56. **Srinivas Y.**, Stanley Raj A., Hudson Oliver D., Muthuraj D., and Chandrasekar N (2012). A robust behavior of Feed Forward Back propagation algorithm of Artificial Neural Networks in the application of vertical electrical sounding data inversion. *Geoscience Frontiers (Elsevier Publications)*. doi:10.1016/j.gsf.2012.02.003., v. 3(5) (2012) 729-736
 57. **Srinivas Y.**, Stanley Raj A., Hudson Oliver D., Muthuraj D., and Chandrasekar N (2012). Estimation of conductance anomalies in subsurface through Dar- Zarrouk parameters by resistivity inversion method. *International Journal of Physical and Mathematical Sciences* Vol 3, No 1 pp.140-151. ISSN: 2010-1791.
 58. Gnaneshwar P., Shivaji A., **Srinivas Y.**, Jettaiah P., and Sundararajan N (2010). Very-low-frequency electromagnetic (VLF-EM) measurements in the Schirmacheroasen area, East Antarctica. **Polar Science (Elsevier publications)** doi:10.1016/j.polar.2010.09.001 (ISSN: **1873-9652**).
 59. Sundararajan N., and **Srinivas Y** (2010). Fourier–Hilbert versus Hartley–Hilbert transforms with some geophysical applications. **Journal of Applied Geophysics (Elsevier, The Netherlands)**, V.71, pp. 157-161.
 60. **Srinivas Y.**, Stanley Raj A., Muthuraj D., Hudson Oliver D., and Chandrasekar N (2010). An Application of Artificial Neural Network for the Interpretation of Three Layer Electrical Resistivity Data using Feed Forward Back Propogatio Algorithm Vol.1. No.1-3, pp.1-11
 61. Muthuraj D, **Srinivas Y** and Chandrasekar N (2010). Delineation of Groundwater Potential areas – a Case study from Tirunelveli District, TamilNadu, India. **International Journal of Applied Environmental Sciences**. Vol.5.No.1, pp. 49-56.
 62. Divya C., **Srinivas Y.**, and Chandrasekar N (2010). The Application of Wireless Sensor Network in Groundwater Table Monitoring in the Placer Mineral Mining

area. **International Journal of Advanced Research in Computer Science.**
V.1(3).

63. Jovivek V., Chandrasekar N., and **Srinivas Y** (2010). Improving Seismic Monitoring System for Small to Intermediate Earthquake Detection. **International Journal of Computer Science and Security (IJCSS)**, V. 4(3), pp. 308-315.
64. Mansour A Al-Garni, **Srinivas Y** and Sundararajan N (2009). Sundararajan transform - an application to geophysical data analysis. **Arab. J Geosci.** DOI 10.1007/s12517-009-0037-1 Printed: (2010) 3:27-32.
65. **Srinivas Y**, Muthuraj D and Chandrasekar N (2008). Resistivity studies to delineate structural features near Abhishekapatti, Tirunelveli, Tamil Nadu, **The Journal of Indian Geophysical Union, India.** v.12. No.4, pp. 157-163.
66. Sundararajan N, Manssur A Al-Garni, Ramabrahmam G and **Srinivas Y** (2007). Real Spectral Analysis of the Deformation of Electric Field – A Hartley Transform Approach. **Geophysical Prospecting.** v. 55, pp.901-910.
67. Sundararajan N, Nandakumar G, Narsimha Chary M, Ramam K. and **Srinivas Y** (2007). VES and VLF – An Application to Ground water Exploration, Khammam, India **The Leading Edge (SEG)**, June, pp. 708-716.
68. Sundararajan N., Ramesh Babu V., Shiva Prasad N and **Srinivas Y** (2006). VLFPROS – A Matlab code for processing of VLF_EM data,. **Computers & Geosciences, (Elsevier)** v.32, pp.1806-1813.
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70. Narsimha Chary M., **Srinivas Y.**, and Sundararajan N (2005). Structural Analysis of magnetic anomalies Across Gondwana Outlier near Tiruvuru, Krishna District, Andhra Pradesh. **The Journal of Indian Geophysical Union, India**, V.9.No.1, pp.21-28.
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Papers Presented in Seminars:

1. Mathiazhagan M, **Srinivas Y**, Mercy T, Muthu M, Athi Narayanan P, Kousika P and Rakesh S (2023). Hydrogeological and hydrochemical characteristics of karst aquifer system in the Manimuthar subbasin, Tamil Nadu. Presented (poster) at National Seminar of Indian Geophysical Union Diamond jubilee annual convention on Advances in Geosciences with Special Reference to Coastal Hazards during during 22- 24 NOV, 2023 at Cochin, Kerala.
2. Arunbose S, Boopathy Raja P, Sivanadhini C, Roja R and **Srinivas Y** (2023). Geoelectrical investigation of groundwater in parts of tucicorin district, Tamilnadu, india. Presented (poster) at National Seminar of Indian Geophysical Union Diamond jubilee annual convention on Advances in Geosciences with Special Reference to Coastal Hazards during 22- 24 NOV, 2023 at Cochin, Kerala.
3. Nithya C Nair, **Srinivas Y**, Rajkumar S and Arunbose S. (2019) Geoelectrical resistivity surveys to characterize the hydrogeological conditions of parts of Tirunelveli distrcet, Tamilnadu, India. Presented at national seminar on Sustainable Development and Management of Groundwater Resources (SDMGR-2019) held at M.S.University, Tirunelveli, Organised by Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli during February 1st & 2nd 2019.
4. Karthikeyan E , **Srinivas Y** and Sathishkumar S. (2019) Effects of ionosphere for the tropical cyclone over equatorial latitude, Tirunelveli. Presented at national seminar on Sustainable Development and Management of Groundwater Resources (SDMGR-2019) held at M.S.University, Tirunelveli, Organised by Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli during February 1st & 2nd 2019.
5. Balsingh John Samuel S and **Srinivas Y** (2019) Metocean studies to understand the near shore hydraulics at Kalingapatnam coast, Srikakulam district, Andhra Pradesh. Presented at national seminar on Sustainable Development and Management of Groundwater Resources (SDMGR-2019) held at M.S.University,

- Tirunelveli, Organised by Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli during February 1st & 2nd 2019.
6. Balsingh John Samuel S and **Srinivas Y.** (2018) Mapping of seafloor and sub-sea floor sedimentation using marine geophysical techniques - A case Study. Presented at 55th annual convention on Changing water cycle and water resources organized by RNTU Bhopal, during 5-7, October, 2018.
 7. Stanley Raj A , Hudson Oliver D, **Srinivas Y**, Muthuraj D. and Viswanath J (2018). Combined wavelet and principal component analysis (PCA) on interpreting features of earth's subsurface layers. Presented at National Seminar on Recent Trends in Geosciences conducted at Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu during 15th and 16th February, 2018.
 8. Stanley Raj A , Hudson Oliver D, Muthuraj D and **Srinivas Y.** (2018). Satellite image processing using supervised classification algorithm of fuzzy logic. Presented at National Seminar on Recent Trends in Geosciences conducted at Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu during 15th and 16th February, 2018.
 9. Arunbose S ,**Srinivas Y**, Junais C.P., Nithya C.Nair, and .Rajkumar S. (2018). Assesment and evaluation of groundwater conditions using electrical resistivity method near tiruchendur, tuteurin district, tamil nadu. Presented at National Seminar on Recent Trends in Geosciences conducted at Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu during 15th and 16th February, 2018.
 10. Karthikeyan E and **Srinivas Y** (2018) Geophysical Technique using Multichannel Analysis of Shear Wave (MASW) to estimate the soil stiffness using shear wave velocity. Presented at National Seminar on Recent Trends in Geosciences conducted at Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu during 15th and 16th February, 2018.
 11. Damodharan R, Sanjay Vimal M, **Srinivas Y**, and Stanley Raj A. (2018). Deciphering fresh water aquifer zones using geoelectrical resistivity data in Tiruvallur Taluk, Tamil Nadu, India. Presented at National Seminar on Recent Trends in Geosciences conducted at Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu during 15th and 16th February, 2018.
 12. Balasingh John Samuel S, **Srinivas Y**, and Subramanian R. (2018). Near shore bathymetry survey to study the seasonal variation on depth contours near Kalingapatnam coast, Srikakulam, Andhra Pradesh. Bay of Bengal. Presented at National Seminar on Recent Trends in Geosciences conducted at Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu during 15th and 16th February, 2018.
 13. Rajkumar S and **Srinivas Y** (2018) Assessment of Groundwater potential zones using electrical resistivity method near Thuckalay region, Kanyakumari district, Tamilnadu. Presented at National Seminar on Recent Trends in Geosciences conducted at Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu during 15th and 16th February, 2018.

14. Balasingh John Samuel S, Srinivas Y. and Subramanian R. (2017) High resolution seafloor mapping using side scan sonar near Kalingapatnam coast, Andhra Pradesh, Bay of Bengal. Recent Advances in Geophysics with Special Reference to Earthquake Seismology. 5th Annual Convention of Indian Geophysical Union (IGU) at CSIR-NGRI, Hyderabad, during 3-7, December, 2017
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16. Rajkumar S, **Srinivas Y**, Nithya. C. Nair, Selvakumar S (2016). "Geochemical appraisal of coastal groundwater quality in parts of south west coast, Kanyakumari district, Tamil Nadu", in International conference on Environmental Science and Climate change, jointly organized by Department of Civil engineering, Karunya university, India and Instituto politecnico Nacional, Mexico on 7th to 9th december, 2016.
17. Nithya C Nair, **Y Srinivas** and N Chandrasekar(2015). Delineation of Groundwater potential zones in Chittar basin, Tamil Nadu using Remote sensing, GIS and Analytic Hierarchy Process (AHP) Technique. Presented at 52nd Annual Convention of Indian Geophysical Union (IGU) at National Centre for Antarctic and Ocean Research (NCAOR), Goa during November 3-5, 2015.
18. Jerin Varghese, Alex Antony Maliakal, Kiran K R, Ajith Kallada, N. Chandrasekar, **Y. Srinivas** and S. Selvakumar (2015). Assessment of Hydrochemistry and Groundwater Suitability For Drinking and Irrigational uses in the coastal stretch between Moonupeedika to Kodungallur of Kerala, India. Presented at 52nd Annual Convention of Indian Geophysical Union (IGU) at National Centre for Antarctic and Ocean Research (NCAOR), Goa during November 3-5, 2015.
19. **Srinivas Y**, Hudson Oliver D, Stanley Raj A, Chandrasekar N (2014). Hydrogeophysical investigations to delineate groundwater potential and quality in and around Kanniyakumari, Tamilnadu. The UGC XII plan sponsored national Seminar on Groundwater: Recent developments and Environmental issues during 26-27, September, 2014 at Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli -12, India.
20. Stanley Raj A , Hudson Oliver D, **Srinivas Y** (2014) An automatic inversion tool for geoelectrical resistivity data using supervised learning algorithm of ANFIS. The UGC XII plan sponsored national Seminar on Groundwater: Recent developments and Environmental issues during 26-27, September, 2014 at Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli -12, India.
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 23. **Srinivas Y**, Aghil T B and Hudson Oliver (2014) Geoelectrical characteristics of the groundwater aquifer near Manavalakuruchi area, Kanyakumari district, Tamilnadu. The UGC XII plan sponsored national Seminar on Groundwater: Recent developments and Environmental issues during 26-27, September, 2014 at Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli - 12, India.
 24. Selvakumar S, Ramkumar G., Chandraseaker N, **Srinivas Y** and Magesh N S(2014) Hydrogeochemical assessment of groundwater quality and its suitability for drinking and irrigational use of Southern Tiruchirappalli, Tamil Nadu, India. The UGC XII plan sponsored national Seminar on Groundwater: Recent developments and Environmental issues during 26-27, September, 2014 at Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli -12, India.
 25. Karthikeyan E, Sruthi Muralitharan, Stalin Raju, Aswin Martin, Chandrasekar N, **Srinivas Y** and Selvakumar S (2014) Evaluation of Groundwater Suitability for domestic and irrigation purposes of Nambiyar river basin, Tamil Nadu, India. The UGC XII plan sponsored national Seminar on Groundwater: Recent developments and Environmental issues during 26-27, September, 2014 at Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli -12, India.
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 27. **Srinivas Y**, Aghil , T.B., Hudson Oliver D and Chandrasekar N. Hydrochemical characteristics and quality assessment of groundwater in and around Manavalakurichi, Tamil Nadu. National seminar on Advances in Geo-exploration Techniques in the search of Minerals under different Geological Settings during 26th & 27th March 2014 at Department of Geophysics, Osmania University, Hyderabad-07
 28. **Srinivas Y**., Hudson oliver D, Aghil T. B., Stanley Raj A and. Chandrasekar N. Assessment of Groundwater Quality Using Geo-electrical and Geochemical Methods – A Case study from Kanyakumari District, Tamil nadu, India. IGU 50th

- Annual convention and meeting on Sustainability of earth System - The Future Challenges during 08-12 January 2014 held at CSIR- National geophysical research Institute Campus Hyderabad - 500 007.
29. Stanley Raj A, **Srinivas Y**, Hudson Oliver D and Muthuraj D. A new Paradigm on neuro Fuzzy Pattern Recognition Approach for estimating the sub-surface strata of earth. IGU 50th Annual convention and meeting on Sustainability of earth System - The Future Challenges during 08-12 January 2014 held at CSIR- National geophysical research Institute Campus Hyderabad - 500 007.
 30. **Srinivas Y**. Stanley Raj A., Hudson Oliver D., Muthuraj D, and. Chandrasekar N. Electrical resistivity investigations for groundwater potential zones in Agastheeswarm Taluk, Kanyakumari District, Tamilnadu. National Seminar on HYDROLOGY “ Hydrocare 2012@GRI-DU” conducted by Association of Hydrologists of India and Gandhigram Rural University during 11th-12th December,2012 at Dindigul, Tamilnadu.
 31. **Srinivas Y**. Stanley Raj A., Hudson Oliver D., Muthuraj D, and. Chandrasekar N. Inversion of electrical resistivity data using clustering algorithms of Fuzzy Logic. IGU 49th Annual convention and meeting on Towards the energy security-Exploration,Exploitation and New Stratagies during 29th 31st October, 2012 held at Gandhinagar, Gujarat, India. (**Awarded Best poster presentation (Second)**).
 32. **Srinivas Y**. Hudson Oliver D., Stanley Raj A., Sreekala S S., and. Chandrasekar N. A geoelectrical study of coastal aquifer of Agastheeswaram Taluk, Kanyakumari district, TamilNadu, India. IGU 49th Annual convention and meeting on Towards the energy security-Exploration,Exploitation and New Stratagies during 29th 31st October, 2012 held at Gandhinagar, Gujarat, India.
 33. Akilan A., Balaji S., **Srinivas Y.**, and Chandrasekar N. Relative motion between India plate and Antarctica plate using GPS-Geodesy. IGU 49th Annual convention and meeting on Towards the energy security-Exploration,Exploitation and New Stratagies during 29th 31st October, 2012 held at Gandhinagar, Gujarat, India.
 34. **Srinivas Y**. Hudson Oliver D., and Stanley Raj A. Evaluation of Groundwater quality in and around Nagercoil town, TamilNadu, India – a Geochemical approach. UGC sponsored national Seminar on Geospatial Technology Development in Natural Resource and Disaster Management during 23-24, February, 2012 at Centre for GeoTechnology, Manonmaniam Sundaranar University, Tirunelveli -12, India.
 35. **Srinivas Y**. Stanley Raj A., Hudson Oliver D., Muthuraj D, and. Chandrasekar N. A Comprehensive appraisal tool to estimate the subsurface geoelectrical parameters using Adaptive Neuro Fuzzy Inference System (ANFIS). National Seminar on Modern trends in Geo-instrumentation during 27th and 28th March 2012 at Department of Geophysics, Osmania University, Hyderabad-07
 36. **Srinivas Y**. Stanley Raj A., Hudson Oliver D., Muthuraj D, and. Chandrasekar N. Estimation of geoelectric parameters and lithology of vertical electrical sounding data using Fuzzy logic technique. IGU 48th Annual convention and

- meeting on Modern trends in Geophysical exploration of continental margins of India and adjoining seas during 20th 22nd December, 2011 held at Vishakapatnam.
37. **Srinivas Y.** Chandrasekar N, Muthuraj D, Hudson Oliver and Stanley Raj A. Characterization of coastal aquifer by geoelectrical and hydrogeochemical methods– A case study. IGU 47th Annual convention and meeting on Integrated Geoscientific strategy in ground water exploration and management during 08th-10th December, 2010 at Department of Geophysics, Osmania University, Hyderabad-07
 38. **Srinivas Y.** Stanley Raj A., Muthuraj D, and Chandrasekar N. Application of Artificial Neural Network for the inversion of Electrical Resistivity Data. National Seminar on Modern Trends and Techniques in Geophysical Modelling & Computational Methods, Department of Geophysics, Osmania university, Hyderabad during 29th &30th March, 2010.
 39. **Srinivas Y.** Muthuraj D, and Chandrasekar N. Determination of groundwater quality using Geophysical methods in and around Tuticorin city, TamilNadu. National Symposium on Geological Processes, Mineral and Fossil fuel Exploration (Golden jubilee celebrations of Mineralogical Society of India), Department of Geology, Anna University, Chennai during 26-28 November, 2009.
 40. **Srinivas Y.** Muthuraj D, Chandrasekar N and Karupasamy. Groundwater exploration in hard rock areas. National workshop on water resource exploration strategies and Management issues (Water 2005), Dept. of Geology, Periyar University, Salem during 24-25 March, 2008.
 41. **Srinivas Y.** Muthuraj D and Chandrasekar N. Magnetic Signatures over a geological contact - A case study from Tirunelveli, TamilNadu. Seminar and Workshop on Strategies on Integrated Geophysical Exploration Technology, Center of Exploration Geophysics, Osmania University, Hyderabad – 7 during 27th 29th February, 2008.
 42. **Srinivas Y.** Effect of Globalisation on Mineral Exploration. Presented in the National Seminar on Globalisation and its Impact on Indian Economy, January 21-23, 2008 held at Department of Economics, Manonmaniam Sundaranar University, Tirunelveli.
 43. **Srinivas Y.** Muthuraj D and Chandrasekar N. Resistivity studies to delineate structural features near Abshikapatti, Tirunelveli, Tamilnadu. Presented at 44th Annual convention and Meeting on Science of shallow subsurface during 21-23 November, 2007 at Kurukshetra University, Kurukshetra, Haryana.
 44. **Srinivas Y.**, Chandrasekar N and Siva Subramaniam., Structural analysis of Magnetic anomalies in around abishekapatti, Tirunelveli, Tamilnadu. 43 Annual convention of Indian Geophysical Union during 23-25th November, 2006 at Dhanbad.
 45. Singh S B., Ashok Babu G., Singh K P., Negi B C., **Srinivas Y** and Purushotham Rao V. Delineation of Basaltic Covered Sediments in the Saurashtra Region using Deep Resistivity Sounding Studies (Presented at 5th Conference & Exposition on Petroleum Geophysics held at Hyderabad, 15-17 January, 2004).

46. Sundararajan N., Narsimha Chary M., **Srinivas Y** and Nanda Kumar G. Magnetic mapping of structures favourable to groundwater occurrence – A Case Study from Tiruvuru, Krishna district, Andhra Pradesh, India (Presented at 40th Annual Convention of Indian Geophysical Union held at Chennai , 16th–18th Dec. 2003).
47. Sundararajan N and **Srinivas Y** . Sundararajan Transform and its applications to Geophysics (Accepted for presentation at 50th annual celebration of Society of Industrial and Applied Mathematics (**SIAM**), **USA** in July, 2002).
48. Singh S B and **Srinivas Y** (1997). Geophysical delineation of deep cross structural pattern and its possible role in the modifying the drainage system in the North West India. (Presented at Geological Society of India sponsored Group Discussion during 6th – 8th December, 1997, Vadodara.)

Major Research project completed:

Sl.No	Title	Agency	Period	Grant/Amount mobilized (in rupees)
1	Assessment of Coastal aquifer contamination using geochemical and geoelectrical methods in the Manavalkurichi Coast, Kanyakumari dt. (as Principal Investigator)	UGC	2012-2015	13,53,300/-
2	Establishment of NRDMS Database Centre in three district of Tamilnadu (as Co-PI)	DST-SLUB	2006-2008	56 lakhs
3	Kanyakumari School Observatory Programme in Earthquake – Setting up of School Level Seismological Observatories in Tamilnadu (as Co-PI)	DST	2007-2012	67 lakhs
4	Evaluation of Agricultural land and Water bodies Changes due to Urban Expansion in and around Tirunelveli Corporation (as Co-PI)	TNSLUB	2007-2008	3.25 lakhs