Dr. P. ARUMUGAM, M.Sc., M.Phil., M.Tech., Ph.D.,
Professor
Department of Statistics, Manonmaniam Sundaranar University,
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Prof. Dr. P. ARUMUGAM hails from an Agricultural family at Maviliuthu village (Near SankaranKovil) from Tenkasi District, Tamil Nadu, India. He obtained his Master Degree M.Sc., in Statistics; M.Tech., in Computer and Information Technology and got his M.Phil and Ph.D in Statistics from Manonmaniam Sundaranar University, Tirunelveli. He has more than 19 years of teaching experience at post-graduate level. His area of research interest is Stochastic Processes, Data mining and Fuzzy Logic. He has published 80 research papers in various International and National Journals and Proceedings and presented papers more than twenty in conferences, both at National and International levels. He has organized and member of Fourty Seven conferences, workshops, Seminar, both at national and international levels. He has authored three books and edited two books and visited for academic programmes. He has supervised 12 scholars successfully for the award of their Ph.D.'s in Statistics as well as in other diversified fields such as Time Series Analysis, Stochastic Processes, Fuzzy Logic, Image Processing and Data Mining. He is a member of the Life Member in Indian Society for Probability Statistics (ISPS), Life Member in Indian Bayesian Society (IBS), and Life Member in International Association of Engineers (IAENG). He has visited in abroad 3 countries such as Singapore, Australia, Dubai.

ADMINISTRATIVE RESPONSIBILITIES as ADDITIONAL CHARGES:

- ❖ Head, Department of Statistics, M.S. University, Tirunelveli during 28 March 2017 to 27.03.2020.

- ❖ Senate Member, M.S. University, Tirunelveli during 28 March 2017 to 27.03.2020.

NSS Programme Coordinator:
- ❖ Manonmaniam Sundaranar University, Tirunelveli during 07.01.2022 to December 2022.

RRC Programme Coordinator:
- ❖ Manonmaniam Sundaranar University, Tirunelveli during 07.01.2022 to December 2022.

Director / Director$_{i/c}$:
- ❖ Centre for Data Processing, M.S.University, Tirunelveli during 12 April 2016 to 07.01.2022.

Coordinator/ Co- Coordinator/ Nodal officer:
- ➢ Statistical Cell, AISHE (All India Survey on Higher Education Cell), NIRF, Manonmaniam Sundaranar University, Tirunelveli.
- ➢ Special Assistant Program (DRS-II), Department of Statistics, Manonmaniam Sundaranar University, Tirunelveli

University Representative:
- ➢ Sree Devi Kumari Women's College, Kuzhithurai, M.S.University, Tirunelveli during 05 February 2019 to 04.02.2021.
- ➢ S.S Duraisamy Nadar Mariammal College, Kovilpatti M.S.University, Tirunelveli during 13 March 2017 to 12 March 2019.

Academic Council Member:
- ❖ Sarah Tucker College, Tirunelveli, Manonmaniam Sundaranar University, Tirunelveli during 20 Jan 2017 to 19 Jan 2019.

- ➢ Chairpersons of Board of Studies (Statistics – PG) of all state Universities, Tamil Nadu State Council for Higher Education 02 August 2018.

- ➢ Joint Secretary, Alumni Association, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu during November 2017 to Till date.

- ➢ Treasurer, University Alumni Association, Manonmaniam Sundaranar University, Tirunelveli

- ➢ Advisory Committee Member, Special Assistant Program (DRS-I), Department of Statistics, Manonmaniam Sundaranar University, Tirunelveli

- ➢ Coordination of Remedial coaching in-charge, Department of Statistics, Manonmaniam Sundaranar University, Tirunelveli during 1st July 2010 to 30th December 2015.

- ➢ **Academic visits in abroad**   **:** Singapore, Australia, Dubai

- ➢ **Research Guidance (Ph.D)**   **:** Awarded: 12; Undergoing: 2

           M.Phil.,   **:** Awarded: 13

- ➢ **RESEARCH PROJECTS Completed**   **:** 03

  - ❖ "Fuzzy Stochastic Models for Socio-Economic Status of Socially Downtrodden People in the Southern Districts of Tamil Nadu" Submitted to University Grants Commission, New Delhi. Rs. 8,37,186/- (Major Research Project) Period: 2011-2014   – **Completed**

  - ❖ "Statistical Analysis of Power Generation" submitted to Manonmaniam Sundaranar University, Tirunelveli, Rs.40,000/- (Minor Research Project)   - **Completed**

  - ❖ "Statistical Analysis of Socio-Economic Indicators of Schedule Castes in Tirunelveli" Funded by the Centre for Ambedkar Studies, MSU, Under University Grants Commission, New Delhi, Xth Plan, March 2007, Rs. 10,000/- (Minor Research Project)   - **Completed**

- ➢ **Books published**   : Authored – 03; Editorial board - 02

  Authored:
  - ❖ S. M. KARTHIK, K. SENTHAMARAI KANNAN, . and P. ARUMUGAM., (2021): Stochastic Modelling for Forecasting Rainfall, INSC International Publishers, Chikkamagaluru, Karnataka.

  - ❖ ARUMUGAM, P. and Jose, P., (2017): R Programming and Data Mining, DJ Publications, Kanyakumari, India.
    (ISBN: 978-81-932485-6-0).

- ❖ ᴀʀᴜᴍᴜɢᴀᴍ, P. and Jose, P., (2019): Data Analysis using R Theory and Practice, Lambert Academic Publishing, Mauritius.
  (ISBN: 978-613-9-4589.-6)

Editorial Board:
- ❖ Recent Trends in Statistics and Computer Applications, 2011, Publication Division, Manonmaniam Sundaranar University, Tirunelveli, India. (ISBN: 978-93-81402-12-2).

- ❖ Recent Trends in Statistical Research, 2010, Publication Division, Manonmaniam Sundaranar University, Tirunelveli Tamilnadu, India, ISBN: 978-81-908352-8-2.

- ➢ **Published research papers   : 80**

S.No	Nᴀᴍᴇ ᴏꜰ ᴛʜᴇ ᴘᴜʙʟɪᴄᴀᴛɪᴏɴs
80	Kᴀᴅʜɪʀᴠᴇɴɪ, V., Aʀᴜᴍᴜɢᴀᴍ, P., & Jᴏsᴇ, P. (2022). Mᴀᴄʜɪɴᴇ Lᴇᴀʀɴɪɴɢ ʙᴀsᴇᴅ Pʀᴇᴅɪᴄᴛɪᴏɴ ᴀɴᴅ Cʟᴀssɪꜰɪᴄᴀᴛɪᴏɴ ᴏꜰ COVID-19 ɪɴ Iɴᴅɪᴀ. METSZET-Jᴏᴜʀɴᴀʟ, 7(12), ᴘᴘ. 269-275. ISSN: 2061-2710.
79	Aʀᴜᴍᴜɢᴀᴍ, P., Kᴀᴅʜɪʀᴠᴇɴɪ, V., & Jᴏsᴇ. P. (2022). Sᴛᴏᴄʜᴀsᴛɪᴄ Gʀᴀᴅɪᴇɴᴛ Dᴇᴄᴇɴᴛ Mᴏᴅᴇʟ ᴀɴᴅ Oᴛʜᴇʀ Mᴀᴄʜɪɴᴇ Lᴇᴀʀɴɪɴɢ Aʟɢᴏʀɪᴛʜᴍs ᴀʀᴇ ᴛᴏ Pʀᴇᴅɪᴄᴛ ᴀɴᴅ Cʟᴀssɪꜰɪᴄᴀᴛɪᴏɴ ᴏꜰ COVID-19 ᴄᴀsᴇs ɪɴ Iɴᴅɪᴀ. Nᴇᴜʀᴏ Qᴜᴀɴᴛᴏʟᴏɢʏ, 20(9), ᴘᴘ. 4115-4123. ISSN: 1303-5150.
78	V. Kadhirveni, P. Arumugam, P. Jose, (2022), Stochastic Modeling for Predicting Covid-19 Prevalence in Southern States, International Journal of Applied Engineering Research, Volume 17, Number 1, pp. 16-20, ISSN 0973-4562
77	V. Ambikavathi, P. Arumugam, P. Jose (2021), "Radial Basis Function Grey Wolf Optimization Learning Machine to Diabetes Prediction", Strad Research, Vol.8(9), pp.171-177, ISSN: 0039-2049.
76	P. Arumugam, V. Kadhirveni, R. Lakshmi Priya, Manimannan G, (2021) "Prediction, Cross Validation and Classification in the Presence COVID-19 of Indian States and Union Territories using Machine Learning Algorithms", International Journal of Recent Technology and Engineering (IJRTE), Volume-10 Issue-1, pp-16-20. ISSN: 2277-3878,
75	P.Aʀᴜᴍᴜɢᴀᴍ, V.Aᴍʙɪᴋᴀᴠᴀᴛʜɪ,(2020), "Fᴇᴀᴛᴜʀᴇ Sᴇʟᴇᴄᴛɪᴏɴ Usɪɴɢ Bɪsᴇᴄᴛɪᴏɴ Bʀᴀɴᴄʜ ᴀɴᴅ Bᴏᴜɴᴅ Aʟɢᴏʀɪᴛʜᴍ ꜰᴏʀ Dɪᴀʙᴇᴛᴇs", Sᴛᴜᴅɪᴇs ɪɴ Iɴᴅɪᴀɴ Pʟᴀᴄᴇ Nᴀᴍᴇs, Vᴏʟ-40-Issᴜᴇ-70, ᴘᴘ.3178-3183, ISSN: 2394-3114.
74	C ʀᴀᴊᴀ, ᴘ ᴀʀᴜᴍᴜɢᴀᴍ, ᴘ ᴊᴏsᴇ, 2020, "ʀᴇᴠᴇᴀʟɪɴɢ ʜᴏᴜsᴇʜᴏʟᴅ ᴇʟᴇᴄᴛʀɪᴄɪᴛʏ ᴘᴏᴡᴇʀ ᴄᴏɴsᴜᴍᴘᴛɪᴏɴ ᴜsɪɴɢ ᴅᴀᴛᴀ ᴍɪɴɪɴɢ ᴀʟɢᴏʀɪᴛʜᴍs", ɪɴᴛᴇʀɴᴀᴛɪᴏɴᴀʟ ᴊᴏᴜʀɴᴀʟ ᴏꜰ sᴛᴀᴛɪsᴛɪᴄs ᴀɴᴅ ʀᴇʟɪᴀʙɪʟɪᴛʏ ᴇɴɢɪɴᴇᴇʀɪɴɢ, ᴠᴏʟ. 7(3), ᴘᴘ. 350-354. (ISSN(P): 2350-0174 ; ISSN(O):2456-2378).
73	C Rᴀᴊᴀ, P Aʀᴜᴍᴜɢᴀᴍ, P Jᴏsᴇ, (2020) "K-Mᴇᴀɴs Cʟᴜsᴛᴇʀ Aᴘᴘʀᴏᴀᴄʜ ꜰᴏʀ Eʟᴇᴄᴛʀɪᴄɪᴛʏ Cᴏɴsᴜᴍᴘᴛɪᴏɴ Dᴀᴛᴀ, Sᴛᴜᴅɪᴇs ɪɴ Iɴᴅɪᴀɴ Pʟᴀᴄᴇ Nᴀᴍᴇs, Vᴏʟ-40-Issᴜᴇ-70, ᴘᴘ. 3097-3101 ISSN: 2394-3114
72	R Rᴀᴊᴀ Pᴀɴᴅɪ, P Aʀᴜᴍᴜɢᴀᴍ, P Jᴏsᴇ, (2020) Sᴜᴘᴘᴏʀᴛ Vᴇᴄᴛᴏʀ Mᴀᴄʜɪɴᴇ Cʟᴀssɪꜰɪᴄᴀᴛɪᴏɴ ꜰᴏʀ Fᴏʀᴇsᴛ Fɪʀᴇ Dᴀᴛᴀ, Sᴛᴜᴅɪᴇs ɪɴ Iɴᴅɪᴀɴ Pʟᴀᴄᴇ Nᴀᴍᴇs, Vᴏʟ-40-Issᴜᴇ-70. PP- 3658-3665

71.	P.Arumugam, V.Ambikavathi, R.Rajapandi, P.Jose (2019), "Data Mining Methods in Diabetes Research", International Journal of Arts, Science and Humanities, Vol. 1(1), pp.1-8, P-ISSN: 2321-788X, E-ISSN: 2582-0397.
70.	R Raja Pandi, P Arumugam, P Jose (2019):" Efficient Feature Selection Technique for Detection of Forest Fire Data" International Journal of Information Technology and Electrical Engineering, Volume 8, Issue 6, pp 86-89, ISSN: 2306-708X
69.	Ezhilarasi R, P. Arumugam., and S. M. Karthik (2019):"Predictive analysis in medical diagnosis systems using data mining methods", The International Journal of analytical and experimental model analysis, Volume XI, Issue X, Oct 2019. Pp: 1398 - 1043, ISSN No: 0886-9367 -International Level
68.	Ezhilarasi R, P. Arumugam. (2019):"Data Mining Methods for Terrorist Activity. Research & Reviews Journal of Statistics. 2019; Vol 8, No 1: 38–43, ISSN: 2278–2273 - National Level
67.	P Arumugam, C Raja, R Raja Pandi, and S. M. Karthik (2019)"Data Mining Techniques for Household Electricity Power Consumption Data", Katral Karpiththal Naveena Aivupokkukal, Umarupulavar Tamil mozhi Nilayam, Singapore, Semmoodhai Pathippagam, pp 243-256, ISSN: 978-93-81006-69-6
66.	Arumugam, P. and Ambikavathi, V., (2019):"Breast Cancer Classification using Artificial Neural Networks", International Journal of Computer Science and Engineering, Volume 07, Issue -04, 2019. Pp: 964 - 968, ISSN No: 2347-2693 - International Level
66.	Arumugam, P. and Ezhilarasi, R., (2018):"Data Mining Methods for Terrrorist Activity ", Research & Reviews: Journal of Statistics, STM Journals, Volume 07, Issue01, 2018. Pp: 38s - 43s, ISSN No: 2348-7909 -International Level
65.	Arumugam, P. and Karthik, S. M., (2018):" Stochastic Modelling and Seasonal Artificial Neural Networks for the Prediction of Monthly Rainfall in India", Research & Reviews: Journal of Statistics, STM Journals, Volume 07, Issue01, 2018. Pp: 96s - 103s, ISSN No: 2348-7909 -International Level
64.	Arumugam, P. and Jose, P., (2018):" Data Mining Methods for Large Data", Research & Reviews: Journal of Statistics, STM Journals, Volume 07, Issue01, 2018. Pp: 30s - 35s, ISSN No: 2348-7909 -International Level
63.	Arumugam, P. and Ambikavathi, V., (2018): "Survey for Artificial Neural Networks Algorithms for Mining Utility Item Sets", SSRG International Journal of Economics Management Studies (SSRG-IJEMS) - Special Issue ICRTECITA - 2018, Pp: 10 - 12, APRIL 2018, ISSN: 2393 – 9152. -International Level
62.	Arumugam, P. Muthukumar S, Selva Kumar S, Kother Mohideen S.,: „Age Group Prediction From Real – Life Facial Images", International journal of Adavance Engineering and Research Development Volume 5, issue 4, Pp: 997 – 1001, April 2018, ISSN: 2348 – 6406, e-issn: 2348-4470. -International Level
61.	Arumugam, P. and Sivaambika , S.R., (2017 online) (2018 Hot copy):" Comparison Of Stochastic Models For Stock Market", International Journal of Engineering

	and Future Technology, Volume 15, Issue 02, Nov-Dec, 2017 (Online) ISSN 2455-6432 - International Level
60.	ARUMUGAM, P. and Saranya, R., (2017):" Financial Time Series Prediction using Multi-Scale Neuro Fuzzy Function Approximation", Indian Journal of Applied Research, Volume 07, Issue 09, September, 2017, Pp: 22-24, ISSN - 2249-555X -International Level
59.	ARUMUGAM, P. and Jose, P., (2017):" Efficient Feature Classification Technique Based on Modified Fuzzy C-means Clustering with Rough Set Theory", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Volume 08, Issue 07, July-August, 2017. Pp: 259-263, ISSN No: 0976-05697 -International Level
58.	ARUMUGAM, P. and Saranya, R., (2017): "Predicting Daily Returns Of Stock Indices Using Fuzzy Linear Regression", International Journal of Multidisciplinary Research Review, Volume 1, Issue 29, July 2017, Pp: 29-38, E- ISSN –2395-1885, ISSN -2395-1877. -International Level
57.	ARUMUGAM, P. and Karthik, S.M., (2017):" Prediction of Seasonal Rainfall Data in India using Fuzzy Stochastic Modelling", Global Journal of Pure and Applied Mathematics, Volume 13, No 09, July, 2017, Pp. 6167-6174 Print ISSN: 0973-1768, Online ISSN: 0973-9750. -International Level
56.	ARUMUGAM, P. and EZHILARASI, R (2017) (2018 Hot copy):" Data Mining Based neural Network Model for Rainfall Forecasting", International Journal of Computer Applications, Volume 170, No 08, July, 2017 (Online) ISSN 0975 – 8887 -International Level
55.	ARUMUGAM, P. and Jose, P., (2017):" Feature Subset Selection And Classification Using Hybrid Improved SVM", Indian Journal of Computer Science and Engineering, Volume 08, Issue 03, Jun-July, 2017, **Pp.** 414-423 ISSN: 0976-5166 - International Level
54.	P. ARUMUGAM, MUTHUKUMAR S, SELVA KUMAR S, GAYATHRI., (2017): "HUMAN AGE GROUP PREDICTION FROM UNKNOWN FACIAL IMAGE", INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN COMPUTER SCIENCE AND SOFTWARE ENGINEERING VOLUME 7, ISSUE 5, PP: 722-726, ISSN: 2277 128X, MAY 2017. -International Level
53.	ARUMUGAM, P. and Jose, P., (2017): "Efficient Feature Classification Technique for Large Data", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Volume 02, Issue 02, March-April, 2017, Pp. 1041-1047 ISSN: 2456-3307**.** - International Level
52.	ARUMUGAM, P. and Saranya, R., (2017):" An Empirical Analysis Of Trading Strategy Based On Simple Moving Average Crossovers", ICTACT Journal on Management Studies, Volume VII, Issue I, February 2017, **Pp. 423-426** ISSN: 2395-1664(Online) - International Level
51.	ARUMUGAM, P. and Karthik, S.M., (2017):"Stochastic Modelling Based Monthly Rainfall Prediction Using Seasonal Artificial Neural Networks", ICTACT Journal on Soft Computing, Volume VII, Issue II, January2017,**Pp.1421-1426** ISSN: 2229-6959 (Online) - International Level
50.	ARUMUGAM, P. and Karthik, S.M., (2016):"Rainfall Prediction by Seasonal Neural

	Networks Enhanced with First Order Markov Models", Bulletin of Mathematics and Statistics Research | Volume IV, Issue IV, October - December 2016, **Pp. 69-76**, ISSN 2348 – 0580 - International Level
49.	ARUMUGAM, P. and Christy, V., (2016): "A Hybrid Clustering Method for Data Mining", International Journal of Research and Scientific Innovation (IJRSI) | Volume III, Issue VII, July 2016, **Pp. 87-94**, ISSN 2321–2705 - International Level
48.	ARUMUGAM, P. and Karthik, S. M.., (2016): "Stochastic Modelling in yearly Rainfall at Tirunelveli District, Tamil Nadu, India". Published By Elsevier Materials today: Proceedings, 2214-7853(2016), International Conference on Processing of Materials, Minerals and Energy, July 29 – 30, 2016, Pp. 1-7, 2214-7853 © 2016, Ongole, Andhra Pradesh, India. - International Level
47.	ARUMUGAM, P. and Saranya, R., (2016): "Outlier Detection and Missing Value in Seasonal ARIMA Model Using Rainfall Data". Published By Elsevier Materials today: Proceedings, 2214-7853(2016), International Conference on Processing of Materials, Minerals and Energy, July 29 – 30, 2016, Pp. 1-9, 2214-7853 © 2016, Ongole, AndhraPradesh, India. - International Level
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45	ARUMUGAM, P. and Jose, P., (2016): "Efficient Decision Tree Based Data Selection and Support Vector Machine Classification". Published By Elsevier Materialstoday: Proceedings, 2214-7853(2016), International Conference on Processing of Materials, Minerals and Energy, July 29 – 30, 2016, 2214-7853 © 2016, Pp. 1-8, Ongole, Andhra Pradesh, India. - International Level
44.	ARUMUGAM, P. and Jose, P., (2016): "Fuzzy Stochastic Model for Socio-Economic Status of Socially downtrodden People in the Southern District of Tamilnadu". International Journal of modern Computer Science(IJMCS), Vol. 4(2), pp 6-9, **ISSN: 2320-7868,** April 2016 - International Level
43	**ARUMUGAM, P.** (2015): Stochastic Model for Socio-Economic Status of Socially Downtrodden People in Puthiyamputhur Panchayat at Tuticorin District, International Journal of Applied Engineering Research (IJAER), Vol. 10(77), pp. 122 – 132, ISSN:0973-4562 - International Level
42	**ARUMUGAM, P.,** MUTHUKUMAR SUBRAMANYAM, SELVAKUMAR S AND L.SINDHU (2015): Facial Forehead Wrinkles Detection using Colour based Skin Segmentation, Advances in Natural and Applied Sciences **(**AENSI Journals), Vol. 9(12), Pages: 71-80, ISSN: 1995-0772 - International Level
41	**ARUMUGAM, P.,** S.SELVA KUMAR, AND MUTHUKUMAR SUBRAMANYAM (2015): Detecting Wrinkles and Sagginess of Skin from Human Face Photographs, Advances in Natural and Applied Sciences (AENSI Journals), Vol. 9(12), Pages: 59-64, ISSN: 1995-0772 - International Level
40	**ARUMUGAM, P.,** S.SELVA KUMAR AND J.MAHESWARI (2015): A Study on Image Formats and

	Assessing the Image Quality for Image Processing Applications, International Journal of Applied Engineering Research (IJAER), Vol. 10(77), pp. 15 – 24, ISSN:0973-4562 - International Level
39	**ARUMUGAM, P.,** S.SELVA KUMAR, AND MUTHUKUMAR SUBRAMANYAM (2015): An Analysis of Visual Features for Better Understanding and Object Representations in Digital Scenes, International Journal of Applied Engineering Research (IJAER), Vol. 10(77), pp. 56 – 70. ISSN:0973-4562 - International Level
38	**ARUMUGAM, P.** (2015): Socio-Economic Status of Socially Downtrodden People in Tuticorin District, Proceedia of NCEADS, Vol. 01, Ch. 05, pp. 002 – 014. ISBN : 978-93-84743-37-6 (30th march 2015) - National Level
37	**ARUMUGAM, P.** AND SELVAKUMAR. S., (2015): An study on Image Formats and Assessing the perceptual Image Quality of digital Images Processing Applications, **Proceedia of NCEADS**, Vol. 01, Ch. 02, pp.506-515. ISBN : 978-93-84743-37-6 (30th march 2015) - National Level
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34	**ARUMUGAM, P.** AND SELVAKUMAR. S., (2015): An Investigation of Visual Features in Digital Images for Detecting Image Spam, Proceedia of NCEADS, Vol. 1, Ch. 02, pp.482-505. ISBN : 978-93-84743-37-6 (30th march 2015) - National Level
33	**ARUMUGAM, P.** (2015): SOCIO-ECONOMIC DEVELOPMENTS REQUIRED FOR PEOPLE IN INDIAN SMARTCITIES, Proceedia of NCEADS, Vol. 01, Ch. 05, pp. 075. ISBN : 978-93-84743-37-6 (30th march 2015) - National Level
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31	**ARUMUGAM, P.** and ANITHAKUMARI, V., (2015): GARCH TIME SERIES MODELS: AN APPLICATION TO NATURAL RUBBER PRODUCTION IN INDIA, A JOURNAL FROM SCHOOL OF MANAGEMENT, NOORUL ISLAM STRATEGIC MANAGEMENT AMBIENCE(NISMA),ICBDM 2015, VOL. I, SPECIAL ISSUE II, PP 197-198, FEBRUARY 2015. ISSN: 0973-3957 - International Level
30	**ARUMUGAM, P.** and ANITHAKUMARI, V., (2014): Adaptive Forecasting for Seasonal Time Series Data using Trigg Tracking Signal, International conference on mathematics and its applications, Vol. III, 1766-1776, ISBN:978-81-923752-8-1. (December 15-17) - International Level

29	**ARUMUGAM, P.** and Christy, V., (2014): A Comparative analysis of neural network and decision trees in forecasting, Aryabhatta *Journal of mathematics and informatics*, Vol. 6(2), pp.261-268, ISSN: 0975-7139. Impact Factor: 0.489. (July – December) - International Level
28	**ARUMUGAM, P.** and JOSE, P., (2014): Data mining classification algorithms for business intelligence, *International Journal of software and web sciences*, Vol. 10(1), pp. 23-27, ISSN: 2279–0071, Impact Factor: 0.489. (September – November) - International Level
27	**ARUMUGAM, P.** and SIVAAMBIKA , S.R., (2014): A STUDY ON SOCIO-ECONOMIC STATUS OF SOCIALLY DOWNTRODDEN PEOPLE IN THE SOUTHERN DISTRICTS OF TAMILNADU USING FUZZY STOCHASTIC MODEL, INDIAN JOURNAL OF APPLIED RESEARCH, Vol.4(9), pp.57-60, Impact Factor (IC value 3.65) ISSN: 2249-555X. - International Level
26	**ARUMUGAM, P.** and SATHYA SIVAGAMI, (2014): A COMPARISION OF SOCIO-ECONOMIC STATUS OF TIRUNELVELI AND THOOTHUKUDI DISTRICTS USING FUZZY STOCHASTIC MODEL, *International Journal of Scientific Research*,Vol.3(9),pp.17-19,ISSN:2277-8179. - International Level
25	**ARUMUGAM, P.** and ANITHAKUMARI, V., (2014): F-ARIMA MODEL FOR FORECAASTING NATURAL RUBBER PRODUCTION IN INDIA, *Indian Journal of Applied Research – volume 4 Issue 7, July,* pp. 514-517, Impact Factor: 2.1652, ISSN: 2249-555X. - International Level
24	**ARUMUGAM, P.** and JOSE, P., (2013): Advance Mining of High Utility Item sets in Transactional Data, Opinion - *International Journal of Business Management*, Vol. 3 No.2, December, pp. 27-40, ISSN: 2231–5470, - International Level
23	**ARUMUGAM, P.** and ANITHAKUMARI, V., (2013): Fuzzy Time Series Method for Forecasting Taiwan Export Data, *International Journal of Engineering Trends and Technology (IJETT) - Volume4 Issue8- August,* pp. 3342-3347, Impact Factor: 0.537, (IC value 4.15) ISSN: 2231-5381. - International Level
22	**ARUMUGAM, P.** and ANITHAKUMARI, V., (2013): SARIMA Model for Natural Rubber production in India, *International Journal of Computer Trends and Technology (IJCTT) – volume 4 Issue 8– August,* pp. 2480-2484, Impact Factor: 0.569 (IC value 4.15) ISSN: 2231-2803. - International Level
21	**ARUMUGAM, P.** and Christy, V., (2013): Advanced Web Usage Mining Algorithm Based on Neural Network and Principal Component Analysis, *International Journal of Computer Science & Communication Networks*, Vol. 3(3), pp.168-172, ISSN: 2249-5789. - International Level
20	**ARUMUGAM, P.** and SIVAAMBIKA , S.R., (2013): Stock Market Forecasting Using Hidden Markov Model with Clustering Algorithm, *IJBTT- International Journal of **Business** Trends and Technology*,Vol.3(3), pp.72-76, Impact Factor (IC value 3.65) ISSN: 2231-2803. - International Level
19	**ARUMUGAM, P.** and ANITHAKUMARI, V., (2013): Seasonal Time Series and Transfer Function Modelling for Natural Rubber Forecasting in India, *International Journal of Computer Trends and Technology (IJCTT) – volume 4 Issue 5– May,* pp. 1366-1370, Impact Factor: 0.569 (IC value 4.15) ISSN: 2231-2803. - International Level

18	**ARUMUGAM, P.** and ANITHAKUMARI, V., (2013): A Comparison of Rule Based Fuzzy Time Series Model for Natural Rubber production in India, Emerging trends in applied mathematical science, pp. 84-96. ISBN: 978-81-924081-1-8. -National Level
17	**ARUMUGAM, P.** and SENTHAMARAI KANNAN, K., (2012): Computational Algorithm of Fuzzy Stochastic Model For Forecasting, *Journal of Algorithms and Computational Technology*, School of Computing and Mathematical Sciences, University of Greenwich, London, UK, Vol. 6, No.3,pp.375-384,ISSN:1748-3018. - International Level
16	**ARUMUGAM, P.** and ANITHAKUMARI, V., (2012): A Comparison of Refined Arithmetic and ARIMA Model for Taiwan Export Data, *Proceeding of the International Conference on Mathematical Modeling and Applied Soft Computing*, Coimbatore Institute of Technology, Coimbatore, July 11-13, 2012, Vol. II, pp. 210-220, ISBN: 978-81-923752-2-9. - International Level
15	SIVA AMBIKA, S.R. and **ARUMUGAM, P.**, (2012): A Hidden Markov Model for Global Warming Entities, *Proceeding of the International Conference on Mathematical Modeling and Applied Soft Computing*, Coimbatore Institute of Technology, Coimbatore, July 11-13, 2012, Vol.II,pp.317-325,ISBN:978-81-923752-2-9. - International Level
14	KRISHNAN, N., MUTHUKUMAR, S., **ARUMUGAM, P.** and SELVAKUMAR, S. (2012): Detection and Extraction of Shadows for Visual Perceptible Image Enhancement, *Proceeding of the International Conference on Mathematical Modeling and Applied Soft Computing*, Coimbatore Institute of Technology, Coimbatore, July 11-13, 2012, Vol. II, pp. 1003-1012, ISBN:978-81-923752-2-9. - International Level
13	**ARUMUGAM, P.** and CHRISTY, V., (2011): Data Mining Techniques for Web usage Pattern *Recent Trends in Statistics and Computer Applications*, pp.201-206,ISBN:978-93-81402-12-2, - National Level
12	**ARUMUGAM, P**. (2011): Computational Algorithm for Clinical Trial Data Based on Cox Model**, *Recent Trends in Statistics and Computer Applications***, pp. 157-162, ISBN: 978-93-81402-12-2. - National Level
11	K. Senthamarai Kannan, P.Sailapathi Sekar, M.Mohamed Sathik and **ARUMUGAM, P.** (2010): *Financial Stock Market Forecast using Data Mining Techniques, **The International MultiConference of Engineers and Computer Scientists*** 2010 (IMECS 2010), Hong Kong, 17-19 March, 2010, Vol.1, pp.555-559, IAENG (ISBN: 978-988-17012-8-2). - International Level
10	K. Senthamarai Kannan, P.Sailapathi Sekar and **ARUMUGAM, P.** (2010): *The Stock Market Prediction using Combinational BSRCTB algorithm*, ***The International Symposium on Stochastic Models and Reliability Engineering, Life Sciences and Operations Management*** (SMRLO'10), Beer Sheva, Israel, February 8-11, 2010, pp. 985-992. - International Level
9	**ARUMUGAM, P** (2010): *Forecasting Enrollments Using Fuzzy Stochastic Model*, ***Recent Trends in Statistical Research***, pp. 21-28, ISBN: 978-81-908352-8-2.
8	**பா.ஆறுமுகம்** (2010): மங்கல் காலத்தொடர் வரிசையை பயன்படுத்தி முன்மதிப்பிடுதல்இ *தமிழக அறிவியல் பேரவை பத்தாவது கருத்தரங்கம்*, மே 21-23, மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம், திருநெல்வேலி, pp.142, ISBN:978-93-80627-17-5. - National Level

7	**P. Arumugam** (2010): *Forecasting Enrollments Using Fuzzy Stochastic Model*, ***Recent Trends in Statistical Research,*** Department of Statistics, Manonmaniam Sundaranar University, Tirunelveli, pp. 21-28, ISBN: 978-81-908352-8-2 - National Level
6	S. Suresh, K.Senthamarai Kannan and ARUMUGAM, P. (2009): *Forecasting Model on Fuzzy Markov Chain*, ***International journal of Statistics and Systems***, Vol. 4 (2), pp. 137-147, ISSN: 0973-2675. - International Level
5	ARUMUGAM, P., K. Senthamarai Kannan and V. Balamurugan (2008): *Evaluation of the Fuzzy queries with Linguistic Hedges on Statistical Attributes*, ***Journal of Applied Mathematical Analysis and Applications***, Vol.4, No.1-2, pp. 35-43, ISSN: 0973-3884. - International Level
4	K. Senthamarai Kannan, D. Nagarajan and ARUMUGAM, P. (2008): *Statistical Analysis of Gene frequencies for Mothers and Babies*, ***International Journal of Anthropologist***, Vol.10, No.2, pp. 139-141,ISSN:0972-0073. -International Level
3	K. Senthamarai Kannan, V. Nagarajan, D.Nagarajan and ARUMUGAM, P. (2007): *A Probability Model of Matured and Prematured Live Birth*, ***Journal of Modern Mathematics and Statistics***, Vol.1, pp. 1-2, ISSN: 994-5388. - International Level
2	K. Senthamarai Kannan, V. Nagarajan, D.Nagarajan and ARUMUGAM, P. (2007): *A Probability Model of Matured and Prematured Live Birth*, ***Research Journal of Applied Sciences***, Vol.2 (9): pp. 963-965, ISSN:1815-932X. -International Level
1	K. Senthamarai Kannan and D. Nagarajan and ARUMUGAM, P. (2007): *Analysis of Birth Weight using Spectral values of Transition Probability Matrix*, ***Proceedings of the 9th Islamic Countries Conference on Statistical Sciences*** (ICCS-IX), University Malaya, Malaysia, pp.1016-1024, ISBN:978-983-4307-1-1. - International Level

- **PAPERS PRESENTED IN INTERNATIONAL LEVEL CONFERENCES**   **:** 12
- **PAPERS PRESENTED IN NATIONAL LEVEL CONFERENCE**   **:** 9
- **REGIONAL / NATIONAL AND INTERNATIONAL**   **:** 47

- **List of Conference / Seminar / Symposia / Workshops ORGANIZED and other organizational Activities: Regional / National and International:**

  ❖ **Conferences/Training/Seminar/Workshops :** Organized : 24; Participated: 67

S.No.	Name of the Event	Period	Capacity in which organized
	International Conference on Recent Trends in Stochastic Modeling and its Applications	*9-11 January, 2020*	Organizing Secretary
1	One day Workshop on Statistics and its Applications	08, Feb, 2019	Organizing Secretary

2	Two Days Workshop on Data Analysis Using Python	21 & 22 Jan, 2019	Organizing Secretary
3	International Workshop on Recent Trends in Stochastic Modeling and its Applications	11 & 12 Jan, 2019	Organizing Secretary
4	Workshop on R Software	17 & 18 Sep 2018	Organizing Coordinator
5	One Day Field Visit – Health Survey in and around Mukkoodal Block, Tirunelveli.	01, March, 2018	Organizing Secretary
6	Workshop on Statistics and its Applications	23, February, 2018	Convener
7	International Conference on Recent Trends In Stochastic Modeling and its Applications (ICRTSMA – 2018)	8-9, January, 2018	Organizing Secretary
8	Three Day Computer Training Programme for RECRUIT POLICE CONSTABLES	27-29, Nov, 2017	Organizing Coordinator
9	Work Shop on Statistical Methods in Medical Services	9-10, Nov, 2017	Convener
10	Work Shop on Statistical Computations Using SPSS& R	1-2, June, 2017	Convener
11	Statistical Computations Using SPSS & R	7-8,June,2017	Organizing Coordinator
12	One-Week Training Programme on the "Applications of SAS for Statistical Data Analysis"	22-26 Feb, 2016	Organizing Coordinator
13	Workshop on "Applications of Statistical Methods in Medical Research"	02-Mar-2016	Organizing Coordinator
14	Organizing Committee, Field Visit to Koodankulam Nuclear Power Plant	05-Mar-2016	Organizing Coordinator
15	Workshop on "Statistics and Its Applications" to the UG students in affiliated colleges M.S University located in Tirunelveli, Tuticorin and Kanyakumari districts	7-8, Mar, 2016	Organizing Coordinator
16	Two day Workshop on Applications of Bio-Statistics in Clinical trials	17-18 Oct, 2016	Organizing Coordinator
17	National Conference on Stochastic Modelling and its Applications (NCSMA-2017)	4-5 Jan, 2017	Organizing Coordinator
18	One day field visit & Field Survey, Abishekapatti, Tirunelveli District	February 5, 2016	Organizing Coordinator
19	One day field visit & Field Survey to ISRO, Mahendragiri and Panagudi, Tirunelveli District	February 5, 2015	Organizing Coordinator
20	Workshop on High Dimensional Statistical Computations Using R (WHDSCR-2014)	July 21-24, 2014	Organizing Coordinator

21	Two days field visit to ICMR, Tuberculosis Research Centre ICMR, Chennai - 600 031 and Dept. of Information Technology, Govt. of India, V.S.I. Estate, Thiruvanmiyur Chennai – 600 041.	May, 2014	Organizing Coordinator
22	Workshop on Statistics and its Applications	December 18 -19, 2013	Organizing Coordinator
23	Workshop on Statistics and Computer Applications for Mano College Students.	March 11-12, 2013	Organizing Coordinator

❖ **Membership of Professional Bodies and Societies** : 5

❖ **Membership in subject related Societies** : 3
 ❖ Life Member in Indian Society for Probability Statistics (ISPS)
 ❖ Life Member in Indian Bayesian Society (IBS)
 ❖ Life Member in International Association of Engineers (IAENG)

AWARDS RECEIVED:

 i. **SILAMPU SEMMAL AWARD**, awarded by Tamil Ilakkiya Kalai Mandram, Sydney, Australia, on September 29, 2019.

 ii. **SIRANTHA PANPALAR AWARD-2019**, awarded by jointly Prabha illakkiya Pathippakam- Sankaran Kovil, and Marutham Quarterly International Tamil Research journal on 17 October, 2019.

 iii. **SIRANTHA KALVIYALAR AWARD-2019**, awarded by Ameeraga Tamil Cultural Association –UAE Dubai Tamil Sangam, Dubai on 15th November, 2019.

 iv. **MOTHER THERESA INNTERNATIONAL AWARD 2020,** awarded by jointly Tiruvallur College of arts and science, Papanasam, Marutham Quarterly International Tamil Research journal and Ameeraga Tamil Cultural Association –UAE, Dubai Tamil Sangam, Dubai on 25.11.2020.

 v. **E.V.R. PERIYAR INTERNATIONAL AWARD 2021,** awarded by jointly Tiruvallur College of Arts and Science, Papanasam, Ameeraga Tamil Cultural Association –UAE Dubai Tamil Sangam, Dubai, kalai pookkal kazhagam, ilangai and Prabha illakkiya Pathippakam-Sankaran Kovil in Modern World Curriculum, multidisciplinary interannual conference on 15.05.2021

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