

**Name :** Dr.Mrs.P. Velmani M.C.A.,M.Phil.,Ph.D.  
**Designation :** Associate Professor  
**Date of Birth :** 04.06.1968  
**Date of Appointment :** 13.06.2007  
**Address :** Department of Computer science,  
The M.D.T. Hindu College,  
Tirunelveli.  
**Mobile :** 9489127283  
**e-mail id :** vmdt5895@gmail.com  
**Teaching Experience:**

Sri Sarada College for Women (SF), Tirunelveli.	06-07-1992 to 13-09-1994
G.Venkataswamy Naidu College (SF), Kovilpatti.	14-09-1994 to 31-05-2007
The M.D.T. Hindu College Tirunelveli	Since 13-06-2007

**E-Content Developed:**

Blog: way2itcareerseekers.blogspot.com  
Created on 26.06.2020 to share career opportunities in Information Technology

**Book Published**

\* Computers Basics to Advancements, 2016, Chess Educational Publishers, Chennai, Kerala, ISBN Number: 978 81 9316 702 1

\* Introduction to Computers by P.Velmani, V.Lakshmi Praba, Muthuram Publications, 2002

**Book Prescribed in M.S.University syllabus**

\* Appendix - AZ41 (pp. 595,596), Manonmaniam Sundaranar University, Tirunelveli, Bachelor of Business Administration Syllabi and scheme of examination for those who joined the Academic year 2012 – 2013, Semester III., Allied – II – (1) Fundamentals of Computer for Business

\* MSU/2016-17/UG-Colleges/Part-III (Business Administration) Semester-IV/ Ppr.no.22 /Allied-IV COMPUTER APPLICATIONS IN BUSINESS (pg:11,12)

**Reference Book:** Introduction to Computers by P.Velmani, V.Lakshmi Praba, Muthuram Publications, 2002

\* Prescribed **Text book** for B.Sc Non-major Computer – 2016-17 revised syllabus

Page 13 of 25 MSU/2016-17/UG-Colleges/Part-IV (B.Sc.Computer Science)/Semester-III/ Ppr.no.21 (A) / Non-Major Elective – I (A) Introduction to Computers

\*MSU/2020 B.Com semester IV Reference Book/Computer Applications in Business, Computers Basics to Advancements, 2016, Chess Educational Publishers

\*Prescribed text book, B.C.A., Sri Sarada College for Women, Tirunelveli, 2020

**Course material prepared**

\* B.C.A. correspondence course, 2016-17 – M.S.University, Tirunelveli – Title of the paper: Introduction to computers

<https://www.msuniv.ac.in/Download/Pdf/270795be0e89499>

**Minor Research Project Completed**

\*Rs. 93,016 received for Minor research project entitled “Characteristics of sensor network applications (for an industrial scenario) – a study, UGC Reference No:F: MRP-3922/11(MRP/UGC-SERO) Final Report submitted on August, 18, 2014.

**Papers presented in the international/National Seminars/Conferences**

\*"A System to Predict the Covid-19 Infection combining Two different Set Theories" National Conference on prospects and challenges in distributive technologies, NCPCDT@24, Organized by Research Department of Computer Science, St.Xavier's College(Autonomous), Palayamkottai, Tirunelveli, 06.12.2024, ISBN: 978-93-341-5128-2.

\*"Classification of Coronary Artery Disease Using Random Forest classifier on Cardiac Magnetic Resonance Imaging", National Conference on prospects and challenges in distributive technologies, NCPCDT@24, Organized by Research Department of Computer Science, St.Xavier's College(Autonomous), Palayamkottai, Tirunelveli, 06.12.2024, ISBN: 978-93-341-5128-2.

\*"A Survey of Classification and Prediction Algorithms using Machine Learning Techniques in Covid-19 Disease Analysis", International Conference on Recent Advances in Cloud Computing and Communication Technology" ICRACCCT-24, Organized by Department of Computer Science, Information Technology, Computer Applications, Noorul Islam College of Arts and Science College in collaboration with ICT Academy of TamilNadu, 06.09.2024, ISBN: 978-81-972950-1-0

\*"Performance analysis of TSPWRP for different number of mobile sinks and various types of data", S.G.Packiavathy, P.Velmani, S.John Peter, International conference on recent advances in computing and communication, Department of computer applications, Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai, Abstract Pg.37, 24.01.2024

\*"Density based cluster head selection algorithm for WSN data aggregation", M.Lakshmi,P.Velmani, National Conference on contemporary Research and Computer Intelligence, St.John's College of Arts and Science, Ammandivilai, 28.10.2022

\*Presented a paper entitled " Enhanced Prediction of Continuous data preserving privacy based on DBSCAN", J.Margaret Sangeetha, P.Velmani, T.C.Rajakumar International e-conference on Recent Trends and Technologies in Soft Computing (ICRTSC 22)", Department of Computer Science and Applications, St.Peter's Institute of Higher Education and Research, Avadi, Chennai, 21.4.2022 & 22.4.2022, Abstract pg:11, ISBN:78-81-56262-9-8

\*Presented a paper entitled " Classification of Arrhythmia ECG signals using Neural Networks and Recurrent Neural Network techniques: A comparative study", International conference on "Recent Trends in Computing and Information Technology", J. Remy, P.Velmani, T.C.Rajakumar, Department of Computer Applications and Research Centre, Sarah Tucker College, 11.2.2022 &12.2.2022, RTCIT22 E Proceeding, Pg.13, ISBN:979-8-88525-143-3

\*Presented a paper entitled " Impact of Air Pollutants and Survey on Monitoring Systems in India", M.Lakshmi, P.Velmani, International conference on "Recent Trends in Computing and Information Technology", Department of Computer Applications and Research Centre, Sarah Tucker College, 11.2.2022 &12.2.2022, RTCIT22 E Proceeding, Pg.13, ISBN:979-8-88525-143-3

\*Presented a paper entitled "A comparative study of Pan-Tompkins and Hamilton-Tompkins Algorithm for ECG Signal Identification and segmentation", J. Remy, P.Velmani, T.C.Rajakumar, International Conference on Research and Innovation in Science Technology & Management, BEST Innovation University and Institute for Engineering Research and Publication, Andhra Pradesh, 7.1.2022 & 8.1.2022, ISBN:978-93-92105-36-4

\*Presented a paper entitled "Classification of Segmented ECG signals using Multi-Layer Perception", J. Remy, P.Velmani, T.C.Rajakumar, International Virtual Conference on Scientific and Technological Convergence(ICSTC 2021), Research Centre, Department of Computer Science, Sri Sarada College for Women, Tirunelveli, 17.8.2021, ISBN:978-81-951315-4-9

\*Feature Extraction and Classification of Segmented ECG signals Based on Radial Basis Function and Random Forest Methodology, J.Remy, Dr.P.velmani, Dr.T.C.Rajakumar, 7.5.2021, Virtual International Conference on Innovative Computational Intelligence, Department of Computer Applications, Francis Xavier Engineering College, Tirunelveli. Abstract page: Proceedings page: . Got best paper award

\*"Sevearity classification of Covid-19 disease a rough Set Based Method", K.S.Padma shree, Dr.P.Velmani, Dr.S.Loghambal, Second International Conference on Applied Mathematics and Intellectual Property Rights, March 9, 10, 2021, PG and Research Department of Mathematics, A.P.C.Mahalaxmi College for Women, Thoothukudi, Abstract pg:49, Got third prize

\*Presented a paper in International Conference on Computational Science & its Applications on 16.03.2018 at Sri Ramasamy Naidu Memorial College, Sattur, entitled " Classifying Tamil Audio Signals According to Speakers using Combined MFCC and LPC Method", Abstract pp.28, ISBN: 978-81-937041-2-7

\* UGC sponsored National conference on Modern Perspectives and Strategies in Teaching, Learning and Evaluation, "New horizons in E-Learning and Career Opportunities", organized by IQAC, The M.D.T.Hindu College, ISBN 9 788 193 264522, 30.09.2016 & 01.10.2016

\* UGC sponsored National seminar on Recent Developments in Functional Analysis, Topology and Graph Theory", organized by Department of Mathematics, The M. D.T. Hindu College, Tirunelveli, "Rough Sets and Data Mining" Abstract p. 56, Pp:395-400, ISBN 978-81-931128-1-6, 27.03.2015

\*ve.pa.su. tamiliyal research Maiyam, National seminar on Art and Ideology of Manonmaniam Sundaranar, The M. D.T. Hindu College, Tirunelveli. "Manonmaniyatthil olikkum kuralmani" (Tamil article), Article Number: 20, pp. 105-108 ISBN: 978-93-81006-84-9. 10.10.2014

\*UGC sponsored National Conference, Organized by Dept. of chemistry, The M.D.T. Hindu college, "Cheminformatics and its challenges" pp. 125-130 on 08&09.03.2013.

\* National conference organized by Fivetamil research centre & v.p.su. tamiliyal research Maiyam The M. D.T. Hindu College, "kaninitamil development and expectation"(Tamil article) pp.505-509 S.No:10, Vol.II ISBN 978-93-80312-06-4. on 11.12.2010

\*NAAC sponsored National Seminar organized by, G.V.N. College, Kovilpatti. "Application oriented research- The need of the hour" (Abstracts: P.77) on 07& 08.10.2010

\*International conference organized by Mepco Schlenk Engineering College, Sivakasi, " Application domain space of sensor network in industrial air pollution Monitoring - A study", pp. 197-202. ISBN 978-81-909614-0-0, on 09-11.12.2009.

\* National conference organized by National Engineering College, Kovilpatti, " A Survey on Implementing Sensor networks in Industrial air pollution monitoring" pp. 136-142 on 06 &07.03.2008

\* NAAC sponsored State level conference organized by & IQAC, The M. D.T. Hindu College, "Role of IT in Quality Higher Education", pp. 143-147 on 24 & 25.01.2008.

### Papers published in the Journals (With ISSN)

\*"Classification and the Prediction of Covid-19 by Applying Naive Bayes and Random Forest Algorithm, K.S.Padmashree, P.Velmani, S.Loghambal, J.Electrical Systems, ISSN: 1112-5209, Volume 20, Issue 11s, December 2024, Page No: 693-705.  
<https://journal.esrgroups.org/jes/article/view/7269/5006>

\*"Performance Analysis of TSPWRP For Different Number of Mobile Sinks and Various Types of Data", S.G.Packiavathy, P.Velmani, S.John Peter, Industrial Engineering Journal, ISSN: 0970-2555, Volume 53, Issue 6, No:2, June 2024, Page No: 190-197.  
[http://www.journal-iiie-india.com/1\\_june\\_24/23.2\\_june.pdf](http://www.journal-iiie-india.com/1_june_24/23.2_june.pdf)

\*"A Study on Applications of Rough Set Theory in Data Mining", K.S.Padmashree, P.Velmani, S.Loghambal, International Journal of Computer Science, ISSN: 2348-6600, Volume 11, Issue 2, No 1, December,2023, Page No: 3304-3312, Reference ID: IJCS-485.  
<https://www.ijcsjournal.com/images/books/IJCS-484.pdf>

\*"Prediction of Covid-19 using Fuzzy-Rough Nearest Neighbor Classification", K.S.Padmashree, P.Velmani, S.Loghambal, International Journal on Recent and Innovation Trends in Computing and Communication, ISSN:2321-8169, Volume 11, Issue 111, September 2023, Page No: 851-858, <https://www.ijritcc.org/index.php/ijritcc/article/view/10282>

\* "Classification and Prediction of Covid-19 Using Naive Bayes and Random Forest Algorithm", K.S.Padmashree, P.Velmani, S.Loghambal, The Ciência & Engenharia - Science & Engineering Journal, ISSN: 0103-944X, Volume 11 Issue 1, June, 2023, pp: 2704 – 2717 <https://seer-ufu-br.online/index.php/journal/article/view/473/344>

\*"Classification of Segmented ECG signals using Multi-Layer Perceptron Classification Algorithm", J. Raxy, P.Velmani, T.C.Rajakumar, Design Engineering, August 2021, Issue:8, pgs:1749-1759, ISSN: 0011-9342, Publisher-Toronto, Scopus indexed <http://www.thedesigengineering.com/index.php/DE/article/view/5081>

\*"Heart beat Classification in MIT-BIH Arrhythmia ECG Dataset using Double Layer BI-LSTM Model", J. Raxy, P.Velmani, T.C.Rajakumar, International Journal of Mechanical Engineering, Vol.6 Special Issue, Nov-Dec. 2021, ISSN:0974-5823, pgs:337-344, Publisher - Kalahari Journals, Scopus indexed [https://kalaharijournals.com/resources/SP-Vol.6\\_53.pdf](https://kalaharijournals.com/resources/SP-Vol.6_53.pdf)

\*"An Energy Efficient Approach for Big Data Gathering in WSN", S.G.Packiavathy, P.Velmani, S.John Peter, GIS Science Journal, Vol:8, Issue:12, December 2021, pgs:1260-1276, ISSN:1869-9391, UGC CARE approved Group II journal, Publisher: Wichmann Verlag

DOI:20.18001.GSJ.2021.V8I11.21.38431 <https://drive.google.com/file/d/1IoS45u5ZhuLPz2ThGBRFaJ9Tpru-mlqi/view>

\* " A novel approach to perform EGC Signal Identification and Segmentation Based on Pan-Tompkins and Hamilton-Tompkins Algorithm", By J.Raxy, P.Velmani, T.C.Rajakumar, International Journal of Pharmaceutical Research, ISSN:0975-2366, Jan-Mar 2021, Vol:13, Issue 1, pp:5126-137, DOI: <https://doi.org/10.31838/ijpr/2021.13.01.695>, Publisher: Advanced Scientific Research, Indexed in Google Scholar, Scopus

\* "Twinned Text Clustering Algorithm Based on IDBSCAN and ConceptNet for Effective Green Communication", Journal of green Engineering (JGE), ISSN: 2245- 4586(online) , Volume-10, Issue-9, September 2020, Alpha Publishers , pp. 6923–6937, Indexed in Google Scholar, Scopus, CrossRef, SCImago, IF: 0.55

\*"Automated Digital Image Clustering Algorithm Based on Colour Distance and IDBSCAN", International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-2, December 2019, Published By: Blue Eyes Intelligence Engineering & Sciences Publication, Retrieval Number: B7078129219/2019©BEIESP, pp.2717 -2722, UGC Reference Journal No: 194 (new care list), B IF: 5.54, Scopus indexed

\*Design and implementation of Priority Hop Based Energy efficient Cluster Routing algorithm for WSN Data Aggregation", International Journal of Applied Engineering Research, Volume 14, Number 11, June 2019, pp.2698-2703, ISSN 0973-4562, E-ISSN: 2698 2703, Research India Publications, UGC Reference Journal No: 64529

\*"Multilingual Off-line Handwriting Recognition in Real-World Images Using the Online Support Vector Machine", Journal of Emerging Technologies and innovative Research, vol.6, no.4, pp. 603-618,ISSN : 2349-5162, April 2019, UGC reference journal number- 1

\*"Heart beat peak detection using signal filtering in ECG data", International journal of Advanced Technology and Engineering Exploration, Vol6(50), January 2019, ISSN(print): 2394-5443, ISSN(online): 2394-7454, PP: 12-24,Publisher: A unit of ACCENTS, UGC Reference Journal No: 63626

\*"Comparison of Continuous Probability Distribution and Robust Mean in WSN Data Aggregation", IOSR Journal of Engineering (IOSRJEN) [www.iosrjen.org](http://www.iosrjen.org) ISSN (e): 2250-3021, ISSN (p): 2278-8719 Vol. 09, Issue 1 (January. 2019), PP 33-37, UGC Reference Journal No.48995, Publisher: IOSR Journal, IF 1.645

\* "Multiple Mobile Sink Path Selection Using Weighted Rendezvous Planning in Wireless Sensor Network" International Journal of Research in Advent Technology, Vol.6, No.10, October 2018 pp.2676-2680 UGC Reference Journal No.48768, Publisher: MG Aricent pvt Ltd, ISSN: 2321-9637, E-ISSN:---, IF: 5.153

\*"Data Aggregation in WSN Using Robust Mean" International Journal of Research in Advent Technology, Vol.6, No.10, October 2018 pp.2638-2642, UGC Reference Journal No.48768, Publisher: MG Aricent pvt Ltd, ISSN: 2321-9637, E-ISSN:---, IF: 5.153,

\*"Multilingual Off-Line Handwriting Recognition in Real-World Images Using Adaptive Neuro Fuzzy Inference System (ANFIS)", Journal of Computational Information Systems 14: 5 (2018) pp: 21-33, October 2018, UGC ref. Journal No:6880, Publisher: Zhongshan Daxuexue/ Zhongshan University ISSN: 15539105, E-ISSN:--- Binary Information Press

\* “ Multilingual Off-line Handwriting Recognition in Real-World Images Using Deep Neural Network (DNN) Classifier” Journal of Computational Information Systems 14: 4 (2018) pp: 164-175, August 2018, UGC ref. Journal No:6880, Publisher: Zhongshan Daxuexve/ Zhongshan University ISSN: 15539105, E-ISSN:--- Binary Information Press

\*International Journal of Intelligent Engineering & Systems, (2185-3118) Vol.11, No.3, pp. 121-129, June 2018, Published by Fukuoka of Japan.<http://www.inass.org/>, entitled A Novel Density Based Clustering Algorithm by Incorporating Mahalanobis Distance, UGC ref. Journal No:22983, indexed by scopus

\*"Classifying Tamil Audio Signals according to speakers using Combined MFCC and LPC Method", International Journal of Engineering Research in Computer Science and Engineering, Vol: 5, Issue:3, March 2018, PP:142-146, ISSN (Online) 2394-2320, Publisher:IFERP

\* International Journal of Computer Applications (0975-8887) volume 165, number 11, pp. 15-18, May-2017, entitled Study on data representation and aggregation in WSN

\* International journal of computer science and information technologies, vol5 (4),

July-August 2014, ISSN 0975-9646, pp.5931-5934, Impact factor 2.93, entitled Design criteria and challenges of Industrial Wireless Sensor Networks.

\* International Journal of computer science & communication networks, vol 4 (2),

April-May2014, ISSN 2249-5789, pp.41-45, Impact factor 3.12 entitled Survey on Applications and Challenges of Wireless Sensor Network in Industries

\* International Journal of advanced research in Computer science (0976-5697) volume 3, number 3, May-June 2012, and pp.298-303 entitled Tunable parameters for energy efficient communication in industrial stack monitoring WSN.

\* International journal of scientific transactions in environment and Technovation, Volume 5(1), Pp 7-14, July-Sep-2011. ISSN 0973 – 9157, entitled Design of physical topology in sensor network for an industrial air pollution monitoring, STET publisher &Printers

\* International Journal of Computer Applications ((ISBN: 978-93-80864-22-3)) volume 25, number 7, July-2011, Impact factor 0.835, entitled Design and implementation of logical topology in sensor network for an industrial stack monitoring, pp:1-5

\*RAC journal of research, volume 1, number 2, .Pp.59-62, Feb- 2011.ISSN:2230 – 7362, entitled Castalia: Suitable simulator for WSN Applications

#### **Orientation/ Refresher Courses attended**

\*Refresher Course/FDP two weeks(online) on Research Methodology and Data Analysis, Teaching and Learning Centre, Ramanujam College, New Delhi, under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, 17.05.2021 to 31.05.2021

\* Refresher course in Computer Applications , Bharathiar University, Coimbatore, 17.11.2017 to 07.12.2017

\*Refresher course in Human Rights (multidisciplinary), University of Kerala, Thiruvananthapuram, 06.05.2015 to 26.05.2015.

\* Refresher course on the theme Fundamentals of advanced Computing technologies Madurai Kamaraj University, Madurai, 07.09.2011 to 27.09.2011.

\* Orientation course, Madurai Kamaraj University, Madurai. 18.05.2009 to 14.06.2009

#### **International/National Seminar/Conference attended**

\* MUTA XXV general conference on "Save Higher Education", Madurai, 7.8.01.2023

\* National Seminar on "NAAC Accreditation Process: Preparation & stakeholders Feedback", IQAC, V.O.Chidambaram College, 12.11.2022

\* International Seminar on "Recent Trends in Computer Technology", G.Venkataswamy Naidu college, Kovilpatti, 20.09.2016

\* National conference on "New horizons in computational intelligence and information systems", Gandhigram Rural Institute- Deemed University, Gandhigram, 17, 18.12.2015

\*International conference on "Contribution of Ilakkuvanar to Tamil" , Dept.of Tamil, The M.D.T.Hindu College, Tirunelveli, 25.02.2014.

\* National seminar on "Modus- Operandi in research methodologies, consultancy and patent writing" Einstein College of Engineering, Tirunelveli ,25.10.2012

\* CSIR sponsored two days national seminar on "Recent Computational Research Methodologies in Data Generation Using Cheminformatics", Einstein College of Engineering, Tirunelveli, 30.08.2012 & 31.08.2012

\* AICTE sponsored National level seminar on “Current Research Issues and latest trends in mobile and wireless networks” National Engineering College Kovilpatti, 12 & 13.11.2007

#### **Workshops attended**

\*Participated workshop on Demystifying NAAC & getting NAAC A++/A+/A Grade and strategies on NIRF, organized by Aasaan eduCare, Chennai at Hotel Applet Tree, Tirunelveli on 19.07.2023

\*Participated in the NPTEL workshop conducted by IIT Madras, at M.S.University, Tirunelveli, on 19.07.2019.

\*Participated in the Capacity Building Programme on ICT enabled effective institutional governance, for improving processes, be compliance ready and adapt digital transformation, on 24.06.2019, in Tirunelveli, Conducted by Mastersoft ERP Solutions Pvt.Ltd.

\*National workshop on advanced Cloud computing on research projects conducted by Einstein College of Engineering, Tirunelveli on 14.02.2014 & 15.02.2014.

\*State level workshop on Application Of SPSS for Data analysis conducted by Dept.of Economics, The M.D.T.Hindu college,Tirunelveli. on 27.12.2010

\* Workshop on NS 2 (Network simulator 2) conducted by Einstein College of Engineering, Tirunelveli on 01.10.2010.

\* Workshop on violence against Women issues, remedies and our response conducted by Vanmugil & The M.D.T. Hindu College Tirunelveli. on 17.02.2010.

\* Work shop for college teachers on skill based subjects conducted by M. S University, Tirunelveli on 14 & 15.12.2009.

\* Work shop on Recent trends in wireless networks conducted by Einstein college of Engineering, Tirunelveli on 10.10.2009.

\* Work shop for Ph. D scholars conducted by Mother Teresa Women's University, Madurai centre on 19.01.2008.

\* Work shop for Ph.D scholars conducted by Mother Teresa Women's University, Madurai centre on 31.08.2007.

#### **Participation in Online webinars:**

IIC Online Sessions (organized by MHRD) - **Sixteen** sessions on innovation, start up, entrepreneur from 28.04.2020 to 22.05.2020  
**Leadership Talk (organized by MHRD) - Eight** Leadership Talk on 09.05.2020, 16.05.2020, 23.05.2020, 30.05.2020, 06.06.2020, 13.06.2020, 20.06.2020, 27.06.2020

Faculty Development Program - Effective staff and students relationship for best outcome, Organized by A.P.C.Mahalakshmi College for Women, Thoothukudi, 12.05.2020.

Webinar on Emerging Technologies that helps the organization during Covid19, Organized by Einstein College of Engineering, Tirunelveli on 17.05.2020

Webinar on Open access Educational Resources for Teaching, Learning, Research, organized by Library, The M.D.T.Hindu College, Tirunelveli on 05.06.2020

Webinar on IIC student innovator series, Organized by Noorul Islam Centre for Higher Education, Kumaracoil, 03.08.2020

National Level Webinar on Creativity with passion leads to leadership, organized by G.V.N.College, Kovilpatti on 29.06.2020.

FDP - One week online certificate course on Digital Teaching Techniques - Organized by ICT Academy, 7.12.2020 - 12.12.2020

FDP - One week online certificate course on Angular JS - Organized by ICT Academy, 22.02.2021 - 27.02.2021

FDP - One week online certificate course on "Fundamentals of Artificial Intelligence and Machine Learning" - ICT Academy - 10.5.2021 - 14.5.2021

#### **Project Guidance**

B.C.A. - Online Voting System - Distance Education, M.S.University, Tirunelveli, August 2021

#### **M. Phil Guidance**

Awarded: 6

#### **Ph.D Guidance**

Recognized research guide (Computer Science) in M.S.University, Tirunelveli, letter dated 06.03.2015

\* Number of scholars Awarded: 5

M.Sivasankari, Register Number:11994, Title: An Approach for Multilingual Offline Handwritten Text Recognition. Date of Viva-Voce:24.02.2020

M.Lakshmi, Register Number:11964, Title: Data Aggregation in Wireless sensor Network, Date of commencement:02.07.2015, Date of Viva-voce:22.10.2020

J.Margaret Sangeetha, Register Number:11996, Title: Improvisation of Density based spatial Clustering of Applications with Noise Clustering Algorithm Based on Automatic Parameter Selection and Mahalanobis Distance Function, Date of Viva-Voce:28.07.2022

J.Rexy, Register Number: 11980, Title: Classification of Arrhythmia Electrocardiogram Signals using Deep Learning Technique, Date of Viva-Voce:22.09.2023

S.G.Packiavathy, Register Number: 12054, Title: An Energy Efficient Approach for Data Gathering in Wireless Sensor Network with Multiple Mobile Sink , Date of Viva-Voce: 30.08.2024

\* Number of scholars pursuing Ph.D – 1

\*Major research areas Wireless Sensor Network, Big Data, Digital Image Processing

#### **\*Extra, Co Curricular Activities**

\* Co-ordinator Students Science magazine, “ viggana pokkal”.

\* Guidance to CS student's participation in intercollegiate competitions.

- \* Women cell – Computer science Department representative
- \* Member, IQAC, SSR preparation - Student support and progression criteria NAAC-2018
- \* Member HINDUCO Journal
- \* Reviewer of Journals
- \* Steering Committee Member and Criterion I Convenor for NAAC from January 2019 to January 2021
- \* Steering Committee Member and Criterion I Convenor for NAAC from January 2021 to January 2023
- Steering Committee & Subcommittee Member from January 2023
- IQAC Assistant coordinator from May 2023
- \* Institution Innovation Council (MHRD initiative) - Convenor from September 2019 to January 2023
- \* Resource person in career oriented programme organized by IQAC of the college

Groom with Quality Profile - 2.8.2019  
 Career Opportunities and their Prerequisites I - 16.8.2019  
 Career Opportunities and their Prerequisites II - 23.08.2019  
 Imparting Technological Skill for Young Entrepreneurs - 4.9.2019  
 Digital Learning - A Paradigm Shift in Education - 20.9.2019  
 Enhance Your Mental Health - 7.02.2020

- \* Institution Innovation Council (MHRD initiative) - Member from January 2023

#### **Invited Talk in Research seminar/Conference**

- \* International conference on Wireless and Mobile Network Security, Department of Computer Applications, Sri Sarada College For Women, Tirunelveli, delivered special address on "Ambient Intelligence: Technologies, Applications" and acted as a chair person ,13.03.2023
- \* International conference on Recent Trends in Advance Computing and its applications, Department of Computer Applications, Sri Sarada College For Women, Tirunelveli, acted as a chair person and presided over valedictory address about Research avenues in computing technologies,23.02.2019
- \* National level Seminar on Web mining, Department of Computer Applications, Sri Sarada College For Women, Tirunelveli, Inaugural address about Research avenues in web mining, 01.09.2017
- \* DST sponsored national workshop on Data Science Research, Department of CS & Eng, Einstein College of Engineering, Tirunelveli, lecture on Big Data Analytics, 01.12.2016
- \* State level seminar Department of IT, G.Venkataswamy Naidu College, Kovilpatti , lecture on Research avenues in Networks and data mining , 26.02.2016
- \* UGC sponsored National Seminar, Inaugural address and lecture on Research startups in Image processing, Department of CS, G.Venkataswamy Naidu College, Kovilpatti ,11.09.2014
- \* UGC sponsored National Seminar, Sri Meenakshi Government College for women, Madurai, lecture on Wireless sensor networking using Castalia in linux Environment, 14.02.2013

#### **Invited Talk in Association meeting / State level / National level Seminar/FDP**

- \* Talk on "Indigenous Technologies", Science Day, IIC, The M.D.T.Hindu College, Tirunelveli,28.02.2024.
- \* Keynote address, Association Inauguration, Einstein College of Arts and Science, Tirunelveli, 07.10.2023
- \* Keynote address, Displayed Computer Magazines, Association valedictory, St.Xavier's College, Tirunelveli, 27.03.2023
- \* Talk on "Base work for NAAC and Institution's Innovation Council", FDP, Don Bosco College of Arts and Science, Keela Eral, Thoothukudi (Dt), 24.09.2022
- \* Talk on "Novel Bio-inspired Computing", DST Star College scheme programme, Sri Ramasamy Naidu Memorial College, Sattur, 21.07.2022
- \* Talk on "Science and Technology questions for competitive examinations", Government museum and NPNK job opportunity centre, Tirunelveli, 10.10.2021 (online).
- \* Keynote address in the State level Inter-Collegiate Meet, Department of Computer Application, S.R.N.M.college, sattur, 22.04.2022
- \* Technical Seminar on " The importance of connecting curriculum outcomes in future careers", The Institution of Engineers (India), Tirunelveli Local Centre, Tirunelveli, 28.01.2021 (Online)
- \* Association inauguration and lecture (Online), "Career Guidance", Sri Sankara Bhagavathi Arts and Science College, Kommadikottai, 23.10.2020
- \* Motivational Talk through online, "Vizhithiru", K.R.College of Arts and Science, Kovilpatti, 17.09.2020
- \* Environmental Protection and plastic ban, N.S.S.Girls Unit No:155, Camp at Reddiarpatti, 07.03.2020
- \* Smart Technologies (Sensors, IOT,Drones), Star College Programme St.Mary's College, Thoothukudi, 21.02.2020
- \* Digital Learning - A paradigm shift in Education", State Level Seminar on Recent Computing Technologies", Sri Sarada College for Women, Tirunelveli, 27.09.2019
- \* Nano Technology, Sri Sankara Bhagavathi Arts & Science College, Kommadikottai, Thoothukudi Dt, 20.07.2019
- \* Chief guest address at inaugural function, computer science department association function, St.Xavier's college(Autonomous), Palayamkottai, 8.7.2019

- \* Engage Educate Enlighten, College level Faculty Development Program, G.Venkataswamy Naidu College, Kovilpatti, 13.6.2018.
- \* Integration of science and society, NSS Meeting, NSS Boys unit, The M.D.T.Hindu College, Tirunelveli, 28.02.2018
- \* Innovations in Teaching and Learning Process, National Conference, Sri Vikasa College of Education, Uthamapalayam, Theni Dt., 20.01.2018
- \* Beyond a degree – Groom with quality profile, State level seminar, G.Venkataswamy Naidu College, Kovilpatti, 28.09.2017
- \* Basic Computer Concepts and Tamil in Internet, Dept.of Tamil, The M.D.T.Hindu College, Tirunelveli, 17.10.2016
- \* Keynote address and lecture on Nano Technology in Computer Science, Don Bosco College of Arts and science, Keela Eral, Thoothukudi, 07.03.2016
- \* Smart Technologies (WSN, IOT, Drones), Mother Teresa Womens University, Kodaikanal, 06.01.2016
- \* Basic Computer concepts, Dept.of Tamil, The M.D.T.Hindu College, Tirunelveli, 19.10.2015
- \* Wireless Sensor networks and IOT, K.R College of arts and Science, Kovilpatti. 25.02.2015
- \* Sensor networks and IOT, SRNM College, Sattur, 06.08.2014
- \* Nanotechnology in Computer science, Mother Teresa Womens University, Kodaikanal, 03.07.2014
- \* Nano technology in Computer science, Rani Anna Government College for women, Tirunelveli, 5.09.2013.
- \* Computer Development in Tamil, Dept.of Tamil, The M.D.T.Hindu College, Tirunelveli, 2.09.2013
- \* WSN characteristics and its applications, G.Venkataswamy Naidu College, Kovilpatti, 12.07.2013
- \* Academic responsibilities of a teacher, College level Staff Development Program, Lakshmi Ammal Polytechnic College, Kovilpatti, 28.05.2010
- \* Applications of Nano technology, Govindammal College for women, Tiruchendur, 19.09.2009
- \* Emerging Trends in NanoTechnology, G.Venkataswamy Naidu College, Kovilpatti. 15.07.2009
- \* Overview of sensor Networks, Sri Sarada College for Women, Tirunelveli, 27.02.2009.

#### **Board of studies member**

- \*Kamaraj College(Autonomous) - BOS B.Sc Computer Science and M.C.A -University Nominee - Attended meeting on 15.11.2024
- \*M.S.University, Tirunelveli - Member Affiliated College - B.Sc CS/B.Sc CS&IT - 01.04.2024 to 31.03.2027
- \*Sarah Tucker College for Women (Autonomous) - BOS Member - Subject Expert - 2023 - Attended meeting on 12.07.2023
- \*Sarah Tucker College for Women (Autonomous) - BOS Member - Subject Expert - 2022 - Attended meeting on 11.10.2022
- Attended online board of studies meeting(University Nominee) for B.C.A & M.C.A, Sri sarada College for Women, Tirunelveli, 10.10.2022
- \*Attended online board of studies meeting(University Nominee) for B.C.A & M.C.A, Sri sarada College for Women, Tirunelveli, 14.07.2022
- \*Attended online board of studies meeting (University Nominee)for B.C.A & M.C.A, Sri sarada College for Women, Tirunelveli, 31.07.2020
- \* Attended board of studies meeting for B.Sc & M.Sc Computer Science, St.Mary's College, Thoothukudi, 01.02.2020
- \* Board of studies - University Nominee - Sri Sarada College for Women, Tirunelveli - Computer Applications - 14.10.2019 to 13.0.2022 - Attended meeting on 4.11.2019
- \* Attended board of studies meeting for B.C.A., in V.V.V.College for Women, Virudhunagar, 23.04.2019
- \* Attended board of studies meeting at St.Mary's College, Thoothukudi, 16.02.2019
- \* Board of studies member for B.C.A., in V.V.V.College for Women, Virudhunagar, 2018-20, Date of meeting attended 07.06.2018.
- \* Board of studies member for B.Sc & M.Sc CS, in St .Mary's College, Thoothukudi, 2018-21, Date of meeting attended 24.02.2018
- \*Expert to review the B.Sc CS syllabus framed by board of studies in SRNM college, Sattur, 2016
- \* Board of studies member for M.C.A. in SRNM College, Sattur, 2016-19. Date of meeting attended 30.01.2016
- \*Board of studies member for M.Phil computer science in SRNM College, Sattur, 2014-15. Date of meeting attended 21.07.2014
- \*Board of studies member for M.C.A. in SRNM College, Sattur – 2013-16. Date of meetings attended: 5.1.2013, 29.1.2014

#### **Professional Affiliation**

- \* Life member in Computer Society of India

#### **FDP & Certificate Course Completed:**

- FDP - One week online certificate course on Database Design & Programming with SQL - Organized by ICT Academy from Oracle, 19.4.2021 - 24.4.2021
- \* Oracle Academy - Database Programming with SQL - 24.04.2021
- \* FDP - Robotic Process Automation - ICT Academy - 4.10.2021 to 8.10.2021
- \*FDP - A Massive Upskilling Program of Naan Mudhalvan Scheme, Government of Tamilnadu - M.S.University, Tirunelveli - 30.01.2023 to 03.02.2023

### **Other Academic Activities**

- \*Advisory Committee member, National Conference on prospects and challenges in distributive technologies, NCPCDT@24, Organized by Research Department of Computer Science, St.Xavier's College(Autonomous), Palayamkottai, Tirunelveli, 06.12.2024
- \*Ph.D Doctoral Committee member- Department of Computer Application and Research Centre, Sarah Tucker College(Autonomous), Tirunelveli- Attended DC meeting on 22.10.2024
- \*Ph.D Doctoral Committee member- Research Department of Computer Science, St.Xavier's College(Autonomous), Palayamkottai, Tirunelveli- Attended DC meeting on 23.07.2024
- \*Ph.D Doctoral Committee member- Research Department of Computer Science, Kamaraj College, Thoothukudi- Attended DC meeting on 12.07.2024
- \* National advisory committee member, International conference on recent advances in computing and communication, Department of computer applications, Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai, 24.01.2024
- \*Pre-Ph.D Viva Voce Member, Sri Sarada College for Women, (Autonomous),Tirunelveli - 11.12.2023
- \*Pre-Ph.D Viva Voce Convenor, St.Xavier's College, (Autonomous),Tirunelveli - 04.10.2023
- \*Ph.D Doctoral Committee member- PG and Research Department of Mathematics, G.V.N.College, Kovilpatti, (Autonomous) - 29.09.2023
- \*Received appreciation letter and gift worth Rs.2500/ from google for active participation in Naan Mudhalvan scheme FDP on 14.07.2023
- \*Ph.D Doctoral Committee member - Rani Anna Government College for Women, Tirunelveli - 26.05.2023
- \* Organizing committee member " One day state level seminar on Enhancing Computing Skills", 17.03.2023
- \* Ph.D Doctoral Committee member - Sri Sarada College for Women, Tirunelveli - 28.01.2023
- \*External member for IQAC Mock Inspection, Don Bosco College of Arts and Science, Keela Eral, 09.01.2023
- \*Reviewed a paper for International Conference on Innovations in Intelligent Computing and Communications - ICIICC 22, UtKal University, Bhubaneswar, India, December 16-17, 2022
- \*Organizing Committee member NAAC sponsored National conference on "The role of IQAC in Quality Sustenance and Quality Enhancement in the context of Revised Assessment and Accreditation Framework(RAAF) in Higher Education Institution(HEI)" on 15.9.2022 &16.09.2022
- \* Ph.D Doctoral Committee External Expert member - Sri Ramasamy Naidu Memorial College, Sattur, 21.07.2022
- \* Ph.D Doctoral Committee member - Sri Sarada College for Women, Tirunelveli - 02.02.2022
- \* Ph.D Doctoral Committee member - Sri Sarada College for Women, Tirunelveli - 23.10.2021
- \* Expert committee member, International Virtual Conference on Scientific and Technological Convergence, Sri Sarada College for Women, Tirunelveli, 17.08.2021
- \* Ph.D Doctoral Committee member - Sri Sarada College for Women, Tirunelveli - 23.01.2021
- \*Pre Ph.D presentation - committee member - Sri Sarada College for Women, Tirunelveli, 31.12.2020
- \* Organizing Secretary, Workshop on Entrepreneurship and Innovation as career opportunity", IIC, 19.11.2020
- \* Judge for Blog designing competition, St.Xavier's College, Palayamkottai, 12.11.2020
- \*Ph.D Doctoral Committee member - attended meeting (Online) G.V.N.College, Kovilpatti, 11.11.2020
- \* Ph.D Doctoral Committee convenor - Online meeting, Department of Mathematics, The M.D.T.Hindu College, Tirunelveli, 10.11.2020
- \* Ph.D Doctoral Committee member - attended meeting at Sri Sarada College for Women, Tirunelveli, 26.09.2020
- \*Coordinator - National Level Online Quiz - 26.06.2020
- \*Ph.D doctoral committee member – Attended meeting at Sri Sarada college for women, Tirunelveli on 02.08.2019 (Two scholars).
- \*Ph.D doctoral committee member – Attended meeting at Sri Sarada college for women, Tirunelveli on 25.08.2018 (Two scholars).
- \*Ph.D doctoral committee member – Attended meeting at Rani Anna government college for women, Tirunelveli on 30.07.2018.
- \*Chief Guest address at Pushpalatha Nursery and Primary School, Tirunelveli, in “Sishu Dinam – UKG Graduation ceremony on 29.03.2018
- \*Ph.D doctoral committee member – Attended meeting at Rani Anna government college for women, Tirunelveli on 4.9.2017.
- \* Chair person in the PG paper presentation session at state level intercollegiate meet organized by SRNM college, Sattur on 27.08.2015.
- \* Organizing committee member, state level technical meet on 27.02.2015. In-charge of the event Quiz.
- \* Inter collegiate meet Chief Guest address And Judge for paper presentation, JP College of Arts and Science, Ayikudi, Tenkasi on 07.03.2014
- \* Acted as a judge in integrated educational exhibition, at Vyasa Vidyalaya Matriculation Higher secondary school, Puzhuthivakkam, Chennai, on 22.6.2013
- \*Expert member for the selection of lecturers in the department of computer science at G. Venkataswamy Naidu College, Kovilpatti, on 06.05.2010
- \* Organizing committee member, One day seminar on research perspective of computer science, on 08.10.2010.