

Name : DR.V.JAIGANESH

Designation : Professor

Department : Computer Science

Qualification : M.C.A., M. Phil., Ph.D., MBA.,

Experience : Teaching: 20 Years 9 Months Research: 17 Years



Area of Specialization(s) : Data Mining, Soft Computing and Machine Learning

Email (Official ID) : drjaiganesh@drngpasc.ac.in

Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Science	Manonmaniam Sundaranar University, Tirunelveli	January 2015
M.Phil.	Computer Science	Periyar University, Salem	July 2007
MBA	HR	Periyar University, Salem	April 2005
M.C.A.	Computer Applications	Salem Sowdeswari College, Salem	April 2001
B.Sc.	Computer Science	Salem Sowdeswari College, Salem	April 1998

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Certification	Python for Data Science	NPTEL	2018

Member in BoS

- 1) Curriculum Design and development for M.Phil programme Syllabus in Bharathiar University Coimbatore.

Research Publications (Indexed)

International

- 1) Dr. V.Jaiganesh,” An Enhanced Efficient Leach Protocol (EELP) with Novel Cross Layer Technique to forward the Data Packets in Wireless Sensor Networks”, International Journal of Innovative Research in Applied Sciences and Engineering (IJIRASE), ISSN(Online) : 2456- 89102021. (WoS)
- 2) Dr.V.Jaiganesh,’ Unified energy efficient distributed network management protocol to forward the data packets and to improve QoS in Wireless Sensor Networks the data packets and to improve QoS in Wireless Sensor Networks”, Indian Journal of Science and Technology, Print: 0974-6846 Electronic: 0974-5645,2021(WoS)
- 3) Dr.V.Jaiganesh,” Ensembled Spectral Reweight Boost Clustering for Energy Aware Target Object Detection in WSN”, Indian Journal of Science and Technology, ISSN-0974-6846 eISSN 0974-5645 (Scopus)
- 4) Dr.V.Jaiganesh,” Enhanced Energy Efficient Routing Protocol (EEE-RP) to forward the Data Packets and to improve QoS in Wireless Sensor Networks by Means of Machine Learning Method”, Indian Journal of Science and Technology, Print: 0974-6846 Electronic: 0974-5645 , 2021;14(14):1122–1132,2021(WoS)
- 5) Dr. V.Jaiganesh,”Quality of Service enabled Intelligent Water Drop Algorithm based routing protocol for dynamic link failure detection in Wireless Sensor Network”, International Journal of Science and Technology, Volume-13, June 2020. (WoS)
- 6) Dr. V.Jaiganesh,” Weighted Majority X-Means Ensemble Cluster Based Quadratic Discriminant Analysis for Resource Efficient Target Object Detection in WSN Using IOT “,International Journal of Control and Automation Vol. 13, No. 2s, (2020), pp. 312-329 (Scopus)
- 7) Dr. V.Jaiganesh,”Dynamic Link Failure Detection using Robust Virus Swarm Routing Protocol in Wireless Sensor Networks”, International Journal of Recent Technology and Engineering , Volume-8, Issue-2 July 2019. (Scopus)

- 8) Dr. V.Jaiganesh,” Reconnaissance Artificial Bee Colony Routing Protocol To Detect Dynamic Link Failure In Wireless Sensor Network”, International Journal of Scientific Technology and Research ,Volume-8, Issue-10, Oct 2019. (Scopus)
- 9) Dr.V.Jaiganesh,” Predicting Academic Performance of Tertiary Students using Classification Algorithm”, International Journal of Recent Technology and Engineering. 2019; 8(2), 6558-6561. ISSN: 2277-3878 (Scopus)
- 10)Dr.V.Jaiganesh ,”Resource Aware Bagging Cluster Based Robust Linear Regression Analysis for Sensed Target Object Detection in WSN “,GEDRAG & ORGANISATIE REVIEW - ISSN:0921-5077 (WoS)
- 11)Dr.V.Jaiganesh ,” Adaptive Particle Swarm Optimization based Credentialed Extreme Learning Machine Classifier (APSO-CELMC) for High Dimensional Datasets, International”, Journal of Innovative Technology and Exploring Engineering, Volume-8, Issue-10S, ISSN: 2278-3075, 2019 (Scopus)
- 12)Dr.V.Jaiganesh, ”Routine Correspondence Method with Grey Wolf Optimization based Imperforate Support Vector Machine Classifier (ISVMC) for High Dimensional Datasets”, Journal of Advanced Research in Dynamical & Control Systems, Vol. 11, 01-Special Issue, ISSN 1943-023X ,15 Feb 2019 (Scopus)
- 13)Dr.V.Jaiganesh,” Survey on Leach Protocol in Energy Harvesting Wireless Sensor Network”, IJRAR, E-ISSN 2348-1269,P-ISSN 2349-5138,Volume 5, Issue 4, November 2018.
- 14)Dr.V.Jaiganesh, “Wireless Sensor Networks overview and study of various applications and environmental factors in WSNs”, International Organization of Scientific Research, Volume5, Issue- 8, October 2018.
- 15)Dr.V.Jaiganesh, “A Survey on Academic Progression of Students in Tertiary Education using Classification Algorithms”, IJETSR, ISSN 2394 – 3386Volume 5, Issue 2, February 2018.
- 16)Dr.V.jaiganesh, “Improved Prediction strategy Using Particle Swarm Optimization Based ANN Classifier for Malicious Node Detection for Hybrid P2P Networks”, International Journal of Advanced Research in Computer Science, ISSN;0976-5697,Jan-Feb 2018.
- 17) Dr.V.Jaiganesh, “Analysis of Energy Efficient Clustering Algorithms for Wireless Sensor Networks”, IJSRD, Vol. 5, Issue 11, ISSN: 2321-0613. 2018.

- 18) Dr.V.Jaiganesh, "Improved Genetic Algorithm Based Feature Selection Strategy Based Five Layered Artificial Neural Network Classifier", International Journal of Engineering and Techniques - Volume 3 Issue 5, Sep - Oct 2017
- 19) Dr.V.Jaiganesh," Simulation Issues in Wireless Sensor Networks - A Survey", Journal of Advances in Computer Science and Engineering, Volume-02, Issue-03, Aug 2017.
- 20) Dr.V.Jaiganesh, "A Literature Review on Supervised Machine Learning Algorithms and Boosting Process", International Journal of Computer Applications 169(8):32-35, July 2017
- 21) Dr.V.Jaiganesh ,"Survey on Minimizing Energy Consumption in Mobile Cloud Computing", International Journal of Computer Applications, ISSN: 0975 – 8887, Volume 150 , No.3, September 2016
- 22) Dr.V.Jaiganesh, "Dynamic and Centralized Network Intrusion Detection System for Real Time Web Applications", IJRCM, Volume No. 6 (2016), Issue No. 07 ISSN 2231-1009, July2016.
- 23) Dr. V.Jaiganesh, "Fast Hierarchical Relevance Vector Machine towards Network Intrusion Detection System", IJCA, ISSN: 0975-8887, Volume 127 - No.1, October 2015.
- 24) Dr.V.Jaiganesh " Intrusion Detection Systems: A Survey and Analysis of Security Issues", IJARCCE, Vol: 4, Issue: 6, ISSN (Online) 2278 - 1021. ISSN(Print) 2319- 5940, June 2015
- 25) V.Jaiganesh, "Intrusion Detection Using Multiclass Batch Algorithm", IJARCCE, Vol.4 Issue.2, ISSN (online): 2278 – 1021, ISSN (print) :2319-5940, February, 2015.
- 26) V.Jaiganesh, "Intrusion Detection Using Neutrosophic Classifier", IJST Vol.2 Issue.13, December 2014.
- 27) V.Jaiganesh, "Towards Improving Reliability in Cognitive Radio Ad hoc Networks", International Journal of Advanced Research in Computer and Communication Engineering, Vol. 3, No. 9, pp. 7885 - 7888, September 2014.
- 28) V.Jaiganesh, "An Efficient Intrusion Detection using Fast Hierarchical Relevance Vector Machine", Journal of Theoretical and Applied Information Technology (JATIT), ISSN: 1992 - 8645, E- ISSN: 1817- 3195,, Volume No: 62, Issue No: 1, April 2014.(Scopus)

- 29) V.Jaiganesh, "An Efficient Algorithm for Network Intrusion Detection System", IJCA, ISSN: 0975 – 8887, Volume No: 90, Issue No: 12-3, March 2014.
- 30) V.Jaiganesh, "Classification Algorithms in Intrusion Detection System: A Survey", IJCTA, ISSN: 2229 – 6093, Volume 4, Issue 5, No.5, Sept-Oct 2013
- 31) V.Jaiganesh, "An Competent Intrusion Detection System using Relevance Vector Machine", IJCA, ISSN: 0975 – 8887, Volume 73– No.9, July 2013.
- 32) V.Jaiganesh, "Intrusion Detection Systems: A Survey and Analysis of Classification Techniques", IJARCCCE Volume 2, Issue 4, pp. 383-391. ISSN 2319 – 5940(Print), ISSN 2278 – 1021(Online), April 2013.
- 33) V.Jaiganesh, "An analysis of Intrusion Detection System using Back propagation neural Networks", IEEE Digital Library, Feb- 2013.(Scopus)
- 34) V.Jaiganesh, "An Efficient Intrusion Detection Using Relevance Vector Machine", IJCET, Volume 4, Issue 1, pp. 383-391. ISSN 0976 – 6367(Print), ISSN 0976 – 6375(Online), January- February 2013.
- 35) V.Jaiganesh, "KELM with Levenberg Marquardt Learning Approach towards Intrusion Detection", IJCA, Vol. 54– No 14, Sep 2012.
- 36) V.Jaiganesh, "Intrusion Detection Using Kernel zed Support Vector Machine with LevenbergMarquardt Learning", International Journal Engineering Science and Technology (IJEST), ISSN: 0975-5462, Vol.4 No.03 March 2012.
- 37) V.Jaiganesh, "A Survey on Building Intrusion Detection System Using Data Mining Framework", International Journal of Computer Science and Information Security (IJCSIS), ISSN: 1947-5500, Vol. 10 No. 3 March 2012

Presentations in Conference

- 1) **Intruder Detection and Home Automation using PIR Sensor**, Second International Conference on Research Trends in Computing Technologies (ICRTCT-2020), Dr. N.G.P. Arts and Science College, Coimbatore, 28-Feb-20 to 29-Feb-20.
- 2) **Evaluation of Data Mining Based Intrusion Detection System**, National Conference on NITAC, Bannari Amman Institute of Technology, Sathyamangalam, 14 & 15-Mar-14.
- 3) **Intrusion Detection System using Machine Learning Algorithm**, National Conference on NITAC, Bannari Amman Institute of Technology, Sathyamangalam, 14 & 15-Mar-14.
- 4) **An Analysis of Intrusion Detection System uses Back Propagation Neural Networks**, IEEE International conference on ICICES, SA Engineering College, Chennai, Feb-2013.
- 5) **Comparative Analysis of Classification Techniques for Intrusion Detection: A Survey**, International Conference on ICRTCT, Dr. N.G.P. Arts and Science College, Coimbatore, 31-Jan-13.
- 6) **An Intrusion Detection using Classification Techniques**, International Conference Ayyan Thiruvalluvar Arts and Science College, Erode, 19-Dec-12 and 20-Dec-2012.

Participation in Conference

International

- 1) **Research Trends in Computer Technologies**, Department of Computer Technology, Dr. N.G.P. Arts and Science College, Coimbatore, 30 & 31-Jan-14.

National

- 1) **Emerging Educational Model for 21st Century Learners**, Association of Principals of Colleges of Bharathiar University, Dr. N.G.P. Arts and Science College, 1-Aug-15.

Participation in Seminars

- 1) **IDS in IoT**, Department of Information Technology, Sri Ramakrishna College of Arts and Science, Coimbatore, 09-March-22

- 2) **Effective Route Optimization Techniques using Nature Bio Inspired Algorithms in WSNs**, Virtual Conference on World of Machine Learning and Artificial Intelligence in Digital Era, Sankara College of Science and Commerce, May 2020.
- 3) **Analysis on Routing Protocols in WSNs for Network Failure Tolerance**, International Conference on Computing Technologies at RV College of Arts and Science, Oct 2019.
- 4) **Routing methods to identify the node link failure**, International Conference on Computational Intelligence, Sankara College of Science and Commerce, Oct 2018.
- 5) **Analysis on Bio Inspired protocols to increase Network Life Time in WSNs**, International Conference on Next Generation Computing Technologies at Sankara College of Science and Commerce, Oct 2017.
- 6) **A Precise Study on Analysis of Routing Protocols in WSNs**, International Conference on Computer Communication and Information Technology at Dr.NGP Arts & Science College, Sep 2016.
- 7) **Cyber Security Awareness and Defense Techniques**, Department of Computer Science, Dr. N.G.P. Arts and Science College, Coimbatore, 25- Aug-14.
- 8) **Big Data Storage and Analytics**, Department of Computer Science and Engineering, Dr. N.G.P. Institute of Technology, Coimbatore, 27- Dec- 13.
- 9) National Seminar on “Data Mining and Knowledge in Medical Data”, held at Amrita School of Engineering, Bengaluru, 29.07.2011 and 30.07. 2011.
- 10) ACM – Distinguished Speaker Program on "Embedded Computing System", held at Dr NGP Institute of Technology, Coimbatore, 30.01.2013.
- 11) One Day National Level Seminar on “Recent Trends in Information Technology", held at Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore, 23.03.2009.
- 12) One Day Seminar on “Career Smartness in Computer Science (CSCS'09)", held at Dr.N.G.P. Arts and Science College, Coimbatore,19.02.2009

Participation in Workshop

- 1) **Professional Ethics & Plagiarism and Strengthening Research For Quality Publications**, Sankara College of Science and Commerce, Coimbatore, 31-Aug-2019.
- 2) **How to Tap Funding Agencies? Publishing Ethics & Plagiarism Tool & Reference Management Tools for Research**, Sankara College of Science and Commerce, Coimbatore, 2-Mar-19.
- 3) **Data Mining and its Applications using Rapid Miner**, Department of Computer Science, Dr. N.G.P. Arts and Science College, Coimbatore, 28-Dec-18.

Participation in Orientation Programme / Short Term Courses

- 1) **How to Do Research in Computer Science**, Hindustan College of Arts and Science, 21-Jan-15.

Participation in Faculty Development Programme

- 1) **NAAC Revised Accreditation Framework and OBE Assessment Methodology**, Dr. N.G.P. Arts and Science College, Coimbatore, 27-May-19 to 02-Jun-19.
- 2) **Research Issues of Data Mining in Real World** Faculty Development Programme, Tamilnadu College of Engineering, Coimbatore, 2011.

Conference / Seminar / Workshop Organized

- 1) Organizing Committee Member, Second International Conference on Research Trends in Computing Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 28&29-Feb-20.
- 2) Organizing Committee Member, National Level Technical Symposium TECHOPEDIA - 2020, Dr. N.G.P. Arts and Science College, Coimbatore, 13-Feb-20.
- 3) Organizing Committee Member, National Conference on Emerging Trends in Mathematics with Computer Applications, Dr. N.G.P. Arts and Science College, Coimbatore, 12 & 13-Sep-19.
- 4) Organizing Committee Member, International Conference on Research Trends in Computing Technologies, Dr. N.G.P. Arts and Science College, Coimbatore, 9 & 10-Aug-18.
- 5) Treasurer, National Level Conference on Computer Communication and Information Technology, Dr. N.G.P. Arts and Science College, Coimbatore, 28-Sep-16.

Editorial / Review Board Member

- 1) Review Board Member in **IAJIT – International Arab Journal of Information Technology** [SCI – Expanded listed journal]
- 2) Review Board Member in **IJRET-International Journal of Research In Engineering And Technology** [UGC listed journal]
- 3) Review Board Member in **IJCTA-International Journal of Computer Technology and Application** [UGC listed journal]

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
IAENG (International Association of Engineers)	Life-time	-
Internet Society	Life-time	-

Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Most Active Reviewers	IAJIT	2015
Most Active Reviewers	IAJIT	2016
Most Active Reviewers	IAJIT	2017
External Examiner in Ph.D Viva Voce	Sri Vijay Vidyalaya College of Arts and Science, Dharmapuri, Tamilnadu, India.	2019
External Examiner in M.Phil Viva Voce	Selvam Arts and Science College Namakkal, Tamilnadu, India.	2016
External Examiner in M.Phil Viva Voce	Selvam Arts and Science College Namakkal, Tamilnadu, India.	2018
External Examiner in M.Phil Viva Voce	Selvam Arts and Science College Namakkal, Tamilnadu, India.	2019
External Examiner in M.Phil Viva Voce	Salem Sowdeswari College for arts and science, Salem, Tamilnadu, India.	2016
External Examiner in M.Phil Viva Voce	Salem Sowdeswari College for arts and science, Salem, Tamilnadu, India.	2017
External Examiner in M.Phil Viva Voce	Salem Sowdeswari College for arts and science, Salem, Tamilnadu, India.	2019