

Government Arts College (Autonomous), Salem - 7
PG & Research Department of Computer Science
Faculty Profile

NAME : **AKILANDESWARI. K**

QUALIFICATION : **M.Sc (CS),, M.Phil., PhD**

B.Sc (CS) in Vellalar College for Women, Erode
M.Sc (CS) in PSG College of Arts and Science,
Coimbatore.
Passed SLET from Bharathidasan
University.(1997)
M.Phil (CS) in ManonmaniamSundaranar
University, Tirunelveli.(2001-03)
PhD in Periyar University.

DESIGNATION : **Associate Professor of Computer Science**
Government Arts College (Autonomous),Salem-7

TEACHING EXPERIENCE : **19 YEARS**

INDUSTRY EXPERIENCE : **6 YEARS**

B. RESEARCH CONTRIBUTIONS:

M.Phil GUIDE SHIP : **Periyar University Regular**
PRIDE (Periyar University Distance Education)
Bharathidasan University Distance Education
Vinayaka Mission's University Part Time
Prist University Part Time

No. of M.Phil Scholars Guided : **36**

External Examiner For M.Phil : **Bharathiar University**
Thesis Evaluation **Karpagam University**
Vinayaka Mission's University

PUBLICATIONS

Papers Presented : (International Level)

1. "Quick Reduct Random Tree based Feature selection for Soil Data Classification" in International Conference on Information and Image Processing (ICIIP- 2014), On Feb 26th, 2014 in *Sankara* College of Science and Commerce, Coimbatore, Tamilnadu.
2. "Bagging of EEG Signals" in World Congress on Computing and Communication technology at St. Joseph's College, Trichirapalli on 1st March, 2014 and **won Best Paper award out of 75 papers presented.**
3. "Optimization of Multilayer Perceptron Neural Network using Hybrid PSO for Improved Brain Computer Interface Data Classification", UGC funded International conference on "Smart approaches in Computer Science Research Arena", 5th January, 2017, Organised by Department of Computer Science, Sri Sarada College for Women, Salem-16.

Papers Presented : (National Level)

4. "Analysis of Classification Algorithms in Data Mining" in AICTE sponsored National Conference on Intelligent computing I-CUBE'09 at Rajiv Gandhi College of Engineering and Technology, Pondicherry on 30th June 2009.
5. "Trends in Software Testing techniques" in National Conference on Emerging technologies and Applications at Navarasam Arts and Science College for Women, Erode on 30th January 2010.
6. "Scheduling Algorithm for Grid Computing" in National Conference on Emerging Trends in Computer Applications at Dr. N.G.P Arts and Science College, Coimbatore on 10th February 2010.
7. "Migrating Web Application Session in Mobile Computing" in National Conference on Advanced Trends in Information Technology at Sengunthar Arts and Science College, Tiruchengode on 1st March 2010.
8. "Throughput and Delay Comparison of MANET" in National Conference on Advanced Trends in Information Technology Dr. N.G.P Arts and Science College, Coimbatore on 3rd March 2010.
9. "The Importance and Issues of Medical Data Mining on Polycystic Ovarian Syndrome on Women" in UGC sponsored National Conference on Emerging Trends in

Computer Applications at Government Arts College(Autonomous), Salem-7 on 25th February 2011.

10. "Survey of Soil Classification and its techniques " in National Conference on Recent Trends in engineering and Technology at KSR Institute for Engineering and Technology on 10th April 2013.

PAPERS PUBLISHED : International Journal

11. "Comparison of Ant Colony and Bee Colony Optimization for SpamHost Detection", International journal of Engineering Research and Development, eISSN : 2278-067X, pISSN : 2278-800X, www.ijerd.com Volume 4, Issue 8 (November 2012), PP. 26-32
12. "Bagging of EEG Signals for Brain Computer Interface", IEEE Xplore ,*World Congress on Computing and Communication Technologies (WCCCT), 2014* , pp.71, 75, doi: 10.1109/WCCCT.2014.42
13. "An Enhanced Privacy Rule Based Model For Filtering Unpreferred Messages ", International Journal of Computer Science & Engineering Technology (IJCSET) ISSN : 2229- 3345. Vol. 5 No. 06 Jun 2014.
14. "Energy Efficient Clustering Algorithm for Maximizing Network Lifetime in Wireless Sensor Networks " , International Journal of Enhanced Research in Management & Computer Applications, ISSN No: 2319-7471", Vol. 3, Issue 7, July- 2014.
15. "Feature extraction of ECG signals for early detection of heart Arrhythmia", International Journal of Advanced Research in Computer and Communication Engineering(IJCCE), Vol. 3, Issue 12, December 2014, ISSN (Online) : 2278-1021 ISSN (Print) : 2319-5940.
16. "Swarm Optimized Feature Selection of EEG Signals for Brain Computer Interface", International Journal of Computational Intelligence and Informatics, Vol. 4: No. 1, June 2014. Offline ISSN: 2231-0258 Online ISSN: 2349-6363 .
17. "A Novel Neural Network based classifications for ECG Signals", International Journal of Recent and innovation trends in Computing and Communication, Vol. 3, Issue 3, March 2015, ISSN: 2321-8169.
18. "A Hybrid Meta Heuristic Feature Selection Algorithm for Brain Computer Interface", International Journal of Science and Engineering Research, Vol. 6, Issue 5, May-2015, 910-916, ISSN: 2229-5518.

19. "A Novel Feature Selection Algorithm And Neural network Classifier for Brain Computer Interface", International Journal of Applied Engineering and Research, ISSN 0973-4562 , Volume 10, Number 9 (May 2015) pp. 24243-24258.
20. "Identification of the Race Liveliness and Matching of the Iris images", International Journal for Research in Science Engineering & Technology", ISSN 2394-739X, Volume 2, Issue 3 Pages: 21-28, May 2015.
21. "Genetic Algorithm based Feature Extraction for ECG Signal Classification using Neural Network", International Journal of Engineering development and Research", ISSN: 2321-9939, Volume 3, Issue 2, pp 1426-1430, May 2015.
22. "Multi-Layer Perceptron Neural Network Classifier with Binary Particle Swarm Optimization based Feature Selection for Brain-Computer Interfaces", International Scholarly and Scientific Research & Innovation 9(6) 2015, 1572-1579, scholar.waset.org/1999.4/10002873.
23. "Weight Optimization of Multilayer Perceptron Neural Network using Hybrid PSO for Improved Brain Computer Interface Data Classification ", International Journal of Computational Intelligence and Informatics, Vol. 6: No. 4, March 2017, Offline ISSN: 2231-0258 Online ISSN: 2349-6363
24. "Effect of Device orientation on Error performance of LiFi Systems in Bi-directional processing feedback", University Review Journal(Scientific Information and Technological Board of Sadhana), Vol 10:No. 4 April 2019, P-ISSN : 22772723, E-ISSN : 22772726.
25. "Sheltered Data with competent and reliable De-Key controlling using Enhanced Blowfish Algorithm", International Journal of Scientific Research, June 2019, P-ISSN : 22778179.

Seminars / Workshops attended

1. National Seminar on Recent Trends in Computing at Periyar University, Salem-11 on 28th October 2006.
2. National Seminar on Bio - Computing at Periyar University, Salem-11 on 7th March 2009.
3. DIT Sponsored National Seminar on Domain Driven Data Mining at Sona College of Technology on 17th& 18th September 2010.
4. National Workshop on Research Tools in Computer Science at Bishop Heber College,

Trichirapalli organized by International Research Forum for Computer Science on 28th& 29th January 2011.

5. Indian Council of Medical Research sponsored National Seminar on Data mining Applications in Medical informatics at Vivekanandha Institute of Information and Management Studies, Tiruchengode on 27th August 2011.
6. DRDO Sponsored National Level Seminar on Data Mining for Intrusion Detection System Applications at Kongu Engineering College(Autonomous), Perundurai on 4th& 5th November 2011.
7. **British Council Sponsored International Conference under South Asian Pacific Dialogue : The Quest for Excellence - The Skills Revolution in the UK and South Asia on 23-24 September 2013, London, UK.** (Participated as Delegate from India).
8. Selected for Study Abroad Programme, a new venture initiated by Government of Tamilnadu, sponsored by Tamilnadu State Council for Higher Education(TANSICHE) and was appointed as **Academic Visitor at Edge Hill University, Lancashire, The UK** from Aug-2013 to Dec 2013. Proud to be the first teacher- candidate to go abroad under this scheme.
9. National Level Data Dissemination workshop on "Statistical Analysis of Demographic Census Data 2011" organised by Directorate of Census Operations, Tamil Nadu and Department of Statistics, Government Arts College(Autonomous), Salem-7 on March 5, 2014.
10. National Workshop on Matlab organized by Department of Computer Science, Government Arts College, Salem-8 on 26-09-2014
11. UGC sponsored Two day workshop on "Technology-Driven Teaching Process for Information Era" organized by Department of Computer Science, Government Arts College(Autonomous), Salem-7 between 04-02-2014 and 05-02-2014.
12. Data dissemination workshop on "statistical analysis of demographic census data 2011", organized by Department of Statistics, Government Arts College(Autonomous), Salem-7 on 05.03.2014
13. National Workshop on MATLAB, organized by Department of Computer Science, Government Arts College for Women , Salem - 8 on 26.09.2014

14. UGC sponsored workshop on Android towards Mobile Apps organized by Department of Computer Science, Government Arts College(Autonomous), Salem-7 on 09.12.2015
15. One Day Inter-Disciplinary International Conference on “Exploring effective Teaching and Learning Strategies” conducted by Department of English, Government Arts College, Salem-8 on 21st December 2015.
16. National level workshop on “Utilizing Internet Resources in Class room Teaching and Learning organized by Government Arts College (Autonomous), Salem - 7, 01.02.2018
17. UGC SERO organised workshop on “Autonomous to colleges : Benefits and Way Forward” at MaulanaAzad National Urdu University, Hyderabad on 4-2-2019.

RESEARCH PROJECTS

1. “Online Community and nativity certificate “ funded by TANSICHE - Completed
2. A Minor Research Project “A Neural Network based system for Brain Computer Interface”, funded by TANSICHE, 2013-2014, Rs 1,00,000

CONFERENCES ORGANIZED

1. UGC sponsored National Conference on Emerging Trends in Computer Applications for Government Arts College(Autonomous), Salem-7 on 25th February 2011 at Hotel Cenny’s Gateway .
2. UGC sponsored Two day workshop on “Technology-Driven Teaching Process for Information Era” organized by Department of Computer Science, Government Arts College(Autonomous), Salem-7 between 04-02-2014 and 05-02-2014.

C. BOARD OF STUDIES MEMBER :

1. Government Arts College (Autonomous), Salem-7.
Member - 2008-Tilldate
2. Vellalar College for women (Autonomous), Erode-5
Member- 2008-2010 for MCA

3. Sri Sarada College for Women (Autonomous), Salem-5
Member - 2009-2011 for M.Sc&B.Sc

D. CONTRIBUTION TO COLLEGE :

1. Acted as Admission Coordinator in 2008-09.
2. Actively participated in Student admission process by preparing rank lists from 2009-10 onwards and introduced OMR based application process and software for UG Counseling for Admission as per Tamilnadu Government Guidelines.
3. Acted as UGC Committee member in 2008-09.
4. Acted as Computer Literacy Programme establishment committee member from 2008-09 to 2011-2012.
5. Acted as a member of Internal Quality assurance Cell (IQAC) of Government Arts College(Autonomous), Salem-7(2014-2016).
6. Acted as a UGC Planning Board member of Government Arts college(Autonomous), Salem-7 and involved in UGC XI and XII Plan proposals(2014-15).
7. Acted as Planning and Implementation Team member of RashtriyaUcchatarShikshaAbhiyan (RUSA) of Government Arts college(Autonomous), Salem-7 (20 14-16).
8. Acted as a team member for College website development and maintenance (2008-2017).
9. Acted as a member in Women Empowerment Cell of the college (2016-17).
10. Acting as member for Autonomous Extension committee of the college

E. Guest Lectures delivered : 22