



Personal Details

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Address

No:55, 10th Cross
New ThillaiNagar,
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D.O.B : 12/5/1968

Nationality: Indian

Areas Of Interest

- Data Mining
- Data Analytics
- Wireless Sensor Networks
- Business Intelligence

Hobbies

- Reading
- Traveling
- Listening to music

Languages Known

- English
- Hindi
- Tamil
- Telugu

Dr. B. KALPANA

Professor, Department of Computer Science,

Avinashilingam Institute for Home Science and Higher Education
for Women, Coimbatore.

Profile

Dedicated, optimistic, and self-directed academic professional
with 33 years of experience in the academic field.

Employment History

Professor at Avinashilingam University

Sept 1991-
Present

It has been a wonderful teaching experience
with immense possibilities to innovate and contribute
to the academic ecosystem.

Asst Professor at Cauvery College, Trichy

July 1990-
August 1991

A wonderful start to my teaching career,
interacting and teaching the undergraduate students
at this institute helped me in building my
confidence.

Education

July 2003 -
October 2008

Ph.D. ComputerScience
AvinashilingamUniversity, Coimbatore.

April 1997-
August 1998

M.Phil. ComputerScience
AvinashilingamUniversity, Coimbatore.

June 1988 -
April 1990

M.Sc. Computer Science
Bishop HeberCollege, Tiruchirapalli

June 1988 -
April 1990

B.Sc. Computer Science
Seethalakshmi Ramaswamy College,
Tiruchirappalli

Skills

- Strong Leadership and Team work Abilities
- Excellent Communication and Interpersonal skills
- Time Management and Organizational Skills
- Problem Solving Abilities
- Analytical and Interpretive Skills

Extra-Curricular Activities

District and State level Athletic Competitions

- Gold and Silver Medal at the state level
athleticcompositions at Orissa state
athletic-1980.
- Overall Individual Championship at school
sports meet1983-1985.

Professional Skills

❖ Programming Skills

C, C++, Java, C#,SQL

❖ Data Mining and Analytics Tools

R, Weka.

❖ Technical writing

Research article typesetting Tool: Latex

❖ Learning Management Systems

Moodle , G Suite

❖ Subject Expert

In Data Mining, Data Analytics, Mobile Communications, Data Structures and Algorithms, Wireless Sensor Networks, Software Engineering, Compiler Design, Parallel Computing, Database Management Systems.

Research Profile

Official website: <https://sites.google.com/avinuty.ac.in/dr-b-kalpana>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=23481496900>

Research Gate: <https://www.researchgate.net/scientific-contributions/B-Kalpana-2081491582>

Google Scholar: <https://scholar.google.co.in/citations?user=c0sylzoAAAAJ>

LinkedIn: <http://linkedin.com/in/kalpana-chandrasekar-37598256>

Research Guidance

PROGRAMME	AWARDED	ONGOING
Ph.D.	4	5

1. A framework for Admissible Kernel Function in Support Vector Machines using Levy Distribution (R.Sangeetha, 2014).
2. A Novel Framework for Web Log Mining using Transductive SVM Classifier and Ontology based Associative Classification (S. Chitra , 2015).
3. Improved PSO Based Classifier For Multiclass Datasets (M. Balasaraswathi ,2018).
4. Improved Strategies For Session Identification And Frequent Pattern Generation In Web Usage Mining (D.Kavitha, 2018).

Programme	Awarded
M.Phil.	12

Funded Projects Completed

- Principal Investigator for the project titled “**Collaborative Context Sensitive Information Processing Model for Target Tracking**” funded by Naval research Board, DRDO. 2011-13. Sanctioned Amount 13.6 lakhs
- Mentored the Student Project “**Smart Home Automation and Personalization System using AI**” DST Curie 2019-20.

Proposals Submitted But Not Sanctioned

- **DST- ICPS** Deep Learning Neural Networks Using Ensemble Methods for Precision Crop Management- March 2017. Called for Presentation at IIIT, Nagpur.
- **Indo- Us Fellowships** for Women in STEM, Mentor. Dr Bhatia, University of Texas, April 2018.
- **DST SERB - IRHPA**. – Hybrid Models for Time Series Prediction of Air Quality using Machine Learning- July 2021.

Orientation and Refresher Courses Attended

Name of the Course / Summer School	Place	Duration	Sponsoring Agency
Four-week orientation course	Bharathidasan University	27.01.1995 to 23.02.1995	UGC
NSS Orientation course	Avinashilingam University	3.01.1996 to 12.01.1996	TOC, Avinashilingam University
Refresher Course in Computer Science	Bharathidasan University	4.04.1999 to 31.04.1999	UGC
Refresher Course in Computer Science	Bharathidasan University	25.11.2000 to 15.12.2000	UGC
Need Based Refresher Course in Instructional Technology and Evaluation in Higher Education	Bharathiar University	15.02.2002 to 07.03.2002	UGC

Professional Training/ Faculty Development Programs Attended

sno	Name of the Programme	Organized by	Period	Venue
1	Recent Trends in Parallel and Distributed Computing	Dept of Computer Science	23/12/96-24/12/96	Pondicherry University
2	Transactional Analyst Training	International Transactional Analysis Association	14/10/04-15/10/04	Avinashilingam university
3	TNSCST Sponsored Workshop on Web Designing and Hosting	Dept of Computer Science	24/09/04	Avinashilingam University
4	IT Faculty training pgm on Microsoft. NET	Dept of Comp sc and Engg	15.12.05-19.12.05	BIT, Sathyamangalam Microsoft-NASSCOM
5	Workshop on IBM's Rational Analysis and Design Tool	Dept Of Computer Science	6/3/09-7/3/09	Avinashilingam University
6	Sensitization of UGC norms for Promotion and Recruitment of University Teachers- (XI th Plan)	Avinashilingam Deemed University	30/11/10	Avinashilingam University
7	Data Mining Using R	ME Software Engg. Dept	13/09/14	Sri Ramakrishna Engg.College Cbe
8	Online FDP- Learning Management system- Moodle	Hindusthan College of Arts and Science	04/06/20	Online
9	FDP- Making of E content	St Joseph's College, Trichy	09/07/20 to 11/07/20	Online
10	FDP- Deep learning	Nehru College of Arts and Science	20/7/23 22/07/23	Online
11	FDP- Deep learning	Dept of IT, Avinashilingam University	17/06/20	Online
12	Workshop on Quality Research and UGC CARE Journals	IQAC Cell	17.05.22	Avinashilingam Institute
13	FDP-Analytics	IIM, Visakhapatnam	26.09.22-30.09.22	Online

University Duties

❖ Overall Convenor

- 31st Convocation Jan 2020
- 32nd Convocation Jan 2021.
- 33rd Convocation March 2022
- Ayya Avargal's Birthday Celebration- May 2019

❖ Committee Convener and other responsibilities

- Lamp Distribution 2008-10
- AQAR 2006-07,07-08,08-09
- Computer Science Association 2012-13
- Professional certification coordinator 2012-2015
- Examination Committee Member- 2013-2015
- ID Card Committee Member- 2015-17
- Annai Vizha- 2017, 2018, 2019
- National Science Day 2019, 2018
- Kalai Vizha - 2019,2018
- UGC 12B Committee Visit

❖ Departmental Responsibilities

- Computer Science Association 2012-13
- Professional certification co-ordinator (DEPT) 2012-2015
- Chief Superintendent- Examinations -2019-22

❖ Organizing Secretary/Convenor

- Compufest 2002
- NCACT- 2010
- Cybroz -2013 (Intercollegiate Fest)
- International Conference on SMAC- Reshaping the Furture (SMAC-2018)
- Workshop on Photoshop and Cool Edit, 2018
- International Symposium on Computing Technolgies for online Learning -Jan 2023

❖ Other Current Responsibilities

- Faculty Coordinator-Value Added and Cocurricular courses
- Anti Ragging Committee,
- Website committee- Core Committee member.
- Board Of Studies- PG and UG Overall In charge for MCA curriculum revision.
- AICTE Co-ordinator, MCA programme.

Services Rendered To Other Institutions

Contributor for Development/ Editing of ICT Courses	National Institute for Open Schooling (NIOS), MHRD, New Delhi- 2016 onwards
Board of studies Subject Expert	VLB Janakiammal College of Arts and Science, Coimbatore, Dept of Information Technology and Computer Technology, Coimbatore.
	NGP College of Arts and Science, Dept of Comp Applications, Coimbatore.
Doctoral Committee Member	Bharathiar University, Karunya University.
Ph.D Thesis Evaluation and Examiner	Bharathidasan University, Manonmanian Sundaranar University
Question Paper Setter	Madras University, Alagappa University.
Paper Valuation	TNPSC Group I - 2016
Conference Review/ Committee Member	IAENG, ICCCM, ICGNCS 2021, IEEE
Journal Reviewer	Current science, Indian Academy of Science, Bangalore. Indian Journal of Science and Technology

Presided As Session Chair

- Digital Campus, CSI CECRI Chapter, Feb 2001
- NCECT 2009, Avinashilingam University, 13th March 2009
- ACM- W Celebration Of Women in computing, Amrita Vishwavidhyapeetam, Sept 2010
- National conference on Innovations in Computing Methodologies- NCICM 2011, 16th Dec. 2011, Dept. of Information Technology, Bharathiar University.
- National conference on Advanced Computing and IT Applications (NCACITA '11) on Feb 18, 2011. KGISL Delivered the key note address on Data Mining and Business Intelligence.
- Advances in Video, Cyber learning and Electronics-ADVANCE 2012, NITTTR, Chandigarh, March 1-2, 2012.

Invited Talks

- **Data Mining and Business Intelligence**, Department of Computer Applications KGISL College of Arts and Science, 11/08/14
- **OOPs made Simple**, Department of Mathematics, Avinashilingam University 14/02/17.
- **Data analytics and Social Media Analytics**, Computer Science Association, Cauvery College for Women Trichy , 18 th March, 2018.
- Presented the report on the NRB Funded Project “**Collaborative Context Sensitive Information Processing Model for Target Tracking**” at the Centre for Artificial Intelligence and Robotics, Bangalore, 19/11/2012.

Resource Person For

- **Faculty Development Programme on Data mining and Warehousing** at Sree Saraswathi Thiagarajar College, Pollachi, 20th Oct.2012.
- **Refresher Course**, Department of Computer Science, Bharathiar University, March 2019.
- **Faculty Development Programme, Web Analytic Series-** AVP college of Arts and Science, Tirupur, May 2020
- **National Webinar** on “ Creative Adaptations with latest IT trends” Organised by Yuvakshetra Institute of Management Studies, University of Calicut, July 2020.
- **Faculty Development Programme on Big Data Analytics**, Organised by Bharathiar University College of Arts and Science, Erode, August 2020.

Awards

S.No.	Name	Institution
1	Best Paper Award received for Presentation of Research paper on Ph.D. Work Titled “Lattice Based Hybrid Strategies for Frequent Itemset Mining “	International Conference on Systemics, Cybernetics & informatics (ICSCI-2007) Dr MCR Research Institute, Hyderabad
2	Best Paper Award received for Presentation of Research paper on Ph.D. Work Titled “Efficient search Space Pruning Strategies for Mining Frequent Itemsets”	International Conference on Data Mining and Applications (ICDMA-2007) International Association of Engineers and Computer Scientists

Visiting Professor

- Data Mining and Warehousing for M.Sc (IT). Institute of Finance Management, Dares salaam, Tanzania- 2012.
- Data Mining and Warehousing, Total Quality Management, for M.Sc (IT)Institute of Finance Management, Dar es salaam, Tanzania- 2013.

Membership in Professional Bodies

- International Association of Engineers and Computer Scientists (IAENG)
- International Association for Research in Computing Sciences (IARCS)

Overseas Visits

- **Hongkong-** Presented paper titled “**Efficient Search Space Pruning Strategies for Mining Frequent Itemsets**”, at International Conference on Data mining and Application, (ICDMA)IAENG, March 2007.Institute of Finance and Management. Dar-es-salam, Tanzania.
- **Canadian University of Dubai.** Presented a paper titled “**A Collaborative Target Tracking Framework Using Particle Filter**”,IEEE Wireless and Mobile Networking Conference WMNC 2013. –Atlantis The Palm.

Publications:

Edited Book

- G.Padmavathi, B.Kalpana, I. Elizabeth Shanthi, “**Advanced Computing Technologies**”,Proceedings of the National Conference on Advanced Computing Technologies, Yesdee Publishing Pvt ltd. ISBN 978-93-80381-02-2.

Book Chapters (4)

1. B.Kalpana, R.Nadarajan. “**Novel and Efficient Search Strategies for Constraining the Search Space in Frequent Itemset Mining**”. Trends in Intelligent Systems and Computer Engineering, Oscar Castillo, Li Xu and Sio-Long Ao Eds. ISBN: 978-0-387-74934-1 Springer, April 2008, pp.284-296.

2. B.Kalpana, R.Nadarajan, J.Senthil Babu. **“An Indexed Trie Approach to Incremental Mining of Closed Frequent Itemsets Based on a Galois Lattice Framework”**. Database Systems for Advanced Applications, J.R.Haritsa, R.Kotagiri, VikramPudiEds. LNCS 4947, Springer –Verlag, Berlin, Heidelberg,2008 pp.486-495, **Scopus Index**.
3. S.Chitra, Dr. B.Kalpana .”**Web Log Preprocessing Based on Partial Ancestral Graph Technique for Session Construction**”, CoNeCo, WiMo, NLP, CRYPSIS, ICAIT, ICDIP, ITCSE, CS , IT 07, pp. 473–482, 2012, ISBN: 978-1-921987-052.
4. S. Sumitha Pandit, B. Kalpana,”**Coverage using swarm intelligence family in WSN**”,Soft Computing for Security Applications. pp 351-363, October 2021. Springer ,ISBN-13: 978-9811653001 .

Journals (34)

1. B.Kalpana, R.Nadarajan. **“Incorporating Heuristics for Efficient Search Space Pruning in FIM Strategies”**, Current Science, Journal of the Indian Academy of Sciences, Bangalore.Vol. 94, ISSN: 0011-3891 .January 2008,pp.97-101.**Indexed by Scopus**. Impact Factor . Cited by 1.**Scopus Index**.
2. B.Kalpana, R.Nadarajan, **“Hybrid Search Strategies for Mining Maximal Frequent and Frequent Item sets based on a Lattice Framework”**, Journal of the Computer Society of India.Vol.37, No.2, ISSN 0254-7813April-June 2007, pp.2-7.
3. B.Kalpana, R.Nadarajan. **“Optimizing Search Space Pruning in Frequent Itemset Mining with Hybrid Traversal Strategies- A Comparative Performance on Different Data organizations”**, IAENG International Journal of Computer Science, 34:1,IJCS_34_1_13,ISSN: 1819-9224(onlineversion); 1819 56X(printversion), September 2007, pp.97-104. **Indexed by Directory of open Access Journals, DBLP, Scopus**. Cited by 2.

4. B.Kalpana.“ **Using Context transformations as a pre processing Step in Mining large Datasets**“.International Journal of Data Mining and Warehousing, CIIT International Journals. ISSN 0974-9683. Online ISSN 0974-9578, April 2009.pp.810, **Indexed by Scopus**.
5. A.B. Dhivya, B.Kalpana,”**A study on the performance of CT- Apriori and CT- PRO Algorithms using compressed structures for pattern mining**”, Journal of Global Research in Computer Science, Vol 1. No2,Sept 2010 ISSN 2229-371X.pp.8-15.
6. Devipriyaa, B.Kalpana,”**User’s Navigation Pattern Discovery using Ant Based Clustering and LCS Classification.**”,Journal of Global Research in Computer Science, Vol 1, No 2, August 2010, ISSN 2229-371X.pp 1-5.
7. Dr. B.Kalpana, R. Sangeetha.”**Identifying Efficient Kernel function in multiclass support vector machines**”, International Journal of Computer Applications, Vol 28- no8. Pp. 18-23.ISSN: 0975-8887. August 2011.
8. Dr B. Kalpana, R. sangeetha” **Performance Evaluation of kernels in Multiclass support vector machines**”,International Journal of Soft computing and Engineering(IJSCE) Vol-1,Issue-5, Nov 2011.
9. R.Sangeetha, Dr. B.Kalpana.”**A Novel Preprocessing Directed Acyclic Graph Technique for Session Construction**”.International Journal of Computer Science andInformation Security, Vol 9. No 12, Dec.2011.
10. S.Chitra, B.Kalpana. “**Knowledge Discovery from Weblogs -A survey**”,Global Journal of Computer Science and Technology, Vol 11(17), Oct.2011,ISSN: 0975-4172.
11. R. Sangeetha, Dr. B.Kalpana ,“**A Mathematical Framework for an Admissible Kernel Function in Support Vector Machines using Levy Distribution**”,International Journal of Emerging Trends in Engineering and Development. Issue 4, vol2 March 2014. Issn. 2249-6149.pp.883-891.

12. Dr. B.Kalpana, R.Sangeetha, **“Evaluating the performance of an admissible kernel function in Banach Space for binary data”**. Int. Journal of Advanced Computer Research vol . No. 3, Issue-12 Sept 2013 . ISSN 2277-7970.
13. R.Sangeetha, B.Kalpana. **“Improved Admissible Kernel Function for Support Vector Machines in Banach Space for Multiclass Data”**, International Journal of Computers and Technology, ISSN 2277-3061. Pp. 2273-2278.
14. R. Sangeetha, B.Kalpana.” **Enhanced Fuzzy Roughset based Feature Selection Strategy using Differential Evolution**”,International Journal of Computer Science and Applications,Vol2. No.6, August 2013, ISSN 2278-1080. Pp. 13-20.
15. S.Chitra, B.Kalpana.”**Identifying Interesting Visitors through Transductive Support Vector Machine Web Log Classifier.**” International Review on Computers and Software. Vol 9. No 2. ISSN 1828-6003.pp 390-395. Feb 2014, **Scopus Index.**
16. S.Chitra, B.Kalpana.”**Optimum Session Interval based on Particle Swarm Optimization for Generating Personalized Ontology.** “ Indian Journal of Science and Technology, Vol7(8),ISSN 0974-5645.Pp. 1137-1143 .2014,**Scopus Index.**
17. M. Balasaraswathi, B.Kalpana.”**Multiobjective Multiswarm PSO based Feature Selection in Classification.**”,International Journal of Applied Engineering Research, Vol 10. No.2(2015) ISSN 0973-4562. Pp. 4603-4618 , **Scopus Indexed.**
18. M. Balasaraswathi, B.Kalpana.”**Metaheuristics for Mining Massive Datasets: A Comprehensive Study of PSO for Classification**”, Advances in Natural and Applied Sciences AENSI Journals Vol 9(5). May 2015, ISSN 1995-0772. Pp. 27-38.

19. M. Balasaraswathi, B. Kalpana.”**Enhanced Classification Using PSO with Embedded Attribute Elimination Techniques**”,Vol 10,No. 20, pp. 9650-9658.ISSN 1819-6608. Nov.2015, **Scopus Indexed**.
20. D.Kavitha., B.Kalpana, “**Dynamic Log Session Identification Using a Novel Incremental Learning Approach for Database Trace Logs.**”, International Journal of Scientific and Engineering Research, Vol 6, Issue 5, May 2015. ISSN 2229-5518. Pp. 1175-1181.
21. S. Sumitha Pandit, B.Kalpana.”**Hybrid Technique for Detection of DOS attack in Wireless Sensor Network**”. Vol 07(2).Oct 2015 ISSN: 0975-0290Pp. 2674-2681.
22. S.Sumitha Pandit, B.Kalpana.”**Efficient Machine Learning Techniques for Intrusion Detection System in WSN**”. International Journal of Emerging Trends in Engineering and Development. Vol. 4, Issue 5, June – July 2015. ISSN 2249-6149. Pp. 252-261. 27.
23. M. Balasaraswathi , B. Kalpana. “**Classification Using Modified PSO Incorporating Probabilistic MH for Improved Convergence**”, International Journal of Scientific and Engineering Research, Vol 6, Issue 8,Pp.1206-1216,ISSN:2229-5218 August 2015.
24. T. Nandhini, B.Kalpana. “ **A survey of Weblogs for effective information retrieval using data mining techniques**”,International Journal of Advanced Research in Computers and Communication Engineering. Vol.5(5), May 2016, ISSN: 2319- 5940,Pp.243-246.
25. T. Nandhini, M. Sajitha, B. Kalpana” **A survey on IOT architecture**,”World Scientific News,Vol 41. Pp 149-152.ISSN: 2318-5840.
26. E.S.Rajarajeswari, B.Kalpana. “**An Energy Efficient Grey Wolf Optimizer for Wireless Sensor Networks**,”International Journal of Computer Science and Information Security. Pp.286-291.Vol. 14 No. 11 Nov.2016.

27. E.S.Rajarajeswari, B.Kalpana. “ **Improving Energy Utilization of Bee Sensor Using Block Perturbation Strategy for Wireless Sensor Networks**”.International Journal on Computer Science and Engineering(IJCSE) vol 9. No .11 Issn : 0975-3397,Nov 2017.
28. D.Kavitha, B.Kalpana., “**Modified Density Based Clustering for Ranked User Preference Paterns in Web Usage Mining**”,International Journal of Theoretical and Applied Science.Special Issue 10(1). ISSN(online): 2249-3247 , Feb 2018.pp.25-31.
29. M. Balasaraswathi, B.Kalpana, “**Fast and Effective Classification using Parallel and Multistart PSO**”, Journal of Information Technology Research, Vol 11(2).DOI.10.4018/JITR2018040102, **Scopus Indexed**.
30. M. Balasaraswathi, B.Kalpana. “**Evaluating the Effectiveness of Modified PSO in Classification.**”, International Journal of Theoretical and Applied Science. Special Issue 10(1). ISSN(online): 2249-3247. Feb 2018.Pp.32-35.
31. E.S. Rajarajeswari, B.Kalpana.” **A study on Energy Optimization through Bio inspired algorithms in Wireless Sensor Networks**”, International Journal of Theoretical and Applied Science. Special Issue 10(1). .pp 91-94. ISSN(online): 2249-3247 , Feb 2018
32. K.H.Rizwana, B.Kalpana. “**An ontology based sentiment analysis using Protégé Software**”, International Journal of Theoretical and Applied Science. Special Issue 10(1).ISSN(online): 2249-3247 .,pp.41-46.Feb 2018
33. K.H.Rizwana, B.Kalpana . “**A Survey on Sentiment Analysis and Opinion Mining**”,International Journal of Pure and Applied Mathematics Volume 118 No. 18 Aug 2018.
34. Balasaraswathi M,Kalpana.B,”**Evaluating the Effectiveness of Modified**

Particle Swarm Optimization in Classification", International Journal Of Theoretical And Applied Science, ISSN No. 2249-3247.

Conference (37)

1. B.Kalpana, R.Nadarajan, Arun Raghavendar. **"Lattice Based Hybrid Strategies for Frequent Itemset Mining"**, International Conference on Systemics, Cybernetics Informatics (ICSCI 2007), Jan 2007. **Won the Best Paper Award.**
2. B.Kalpana, R.Nadarajan, Rukaiya Moyyad. **"Efficient Search Space Pruning Strategies for Mining Frequent Itemsets"**, International Conference on Data Mining and Applications (ICDMA2007), March 2007, IAENG Hong Kong, 2007. **Won the Certificate of Merit Award. Scopus Indexed.**
3. B.Kalpana, R.Nadarajan, J.Senthil Babu. **"A Galois Lattice Framework to Handle Updates in the Mining of Closed Itemsets in Dynamic Databases"** ACM Compute 2008, Jan 18 th -20 th ,2008, Bangalore, India, ACM Digital library. Article16. ISBN: 978-1-59593-950-0. **Scopus Indexed.**
4. B.Kalpana, R.Nadarajan, J.Senthil Babu. **"An Indexed Trie Approach to Incremental Mining of Closed Frequent Itemsets based on a Galois Lattice Framework"**, 13 th International Conference on Database Systems for Advanced Applications. ISBN 978-3- 540-7857-5 (DASFAA 2008), 19 th -21 st March 2008, New Delhi, **Scopus Indexed.**
5. B.Kalpana, **"Web Based Education - Current Scenario and Future Prospects"**, NETFORUM-2001, Mahatma Gandhi Kashi Vidyapeeth, Varanasi.
6. B.Kalpana. **"Exploiting Parallelism in a Relational Database System- an analysis of Speedup, Efficiency and Scalability"**. Digital Campus, Feb 23rd - 24th, 2001, Computer Society of India CECRI chapter.

7. B.Kalpana. **"IT: The Industry where Women are underrepresented – Strategies to encourage Women participation"**, Annual Conference of Women in IT, WIT 2002, Annamalai University, Aug 29 th -30 th 2002.
8. B.Kalpana. **"Towards Gender Equity in Digital Era"** International Conference on Women in the Digital Era: Opportunities and Challenges- WIT 2003, 10 th -12 th Dec 2003.
9. P.Anitha, B.Kalpana. **"Web Mining-Applications and Open issues"**, First International Conference on Data Engineering and Management, ICDEM 2008, Bishop Heber College, Trichy, Feb 2008. ISBN: 978-81-906267-0-5.
10. P.Anitha, B.Kalpana. **"Web Mining: Information and Pattern Discovery on the World Wide Web."** National Conference on Data Mining and Warehousing- NCDMW'08, Vidyasagar College of arts and Science, Udumalpet, March 2008.
11. B.Kalpana. **"Efficient Context Transformations for Representing large Datasets"**, International Conference on Advanced Computing, Bharathidasan University Technology Parks and Cauvery College, Trichy, August 6-8, 2009. ISBN10:0230-3911.
12. R. Sangeetha., Dr.B.Kalpana. **"A Comparative Study and Choice of an Appropriate Kernel for Support Vector Machines"**, ICT 2010, Sept 7-9, 2010, Springer-Verlag Berlin, Heidelberg. ISSN 1865-0929, ISBN 3-642-15765-3, **Scopus Indexed**
13. R. Sangeetha., Dr.B.Kalpana. **"Optimizing the Kernel Selection for Support Vector Machines using Performance Measures"**. A2CWIC 2010, Sept 16-17, 2010, ISSN 978-1-4503-0914-7, ACM Digital Library, **Scopus Indexed**.

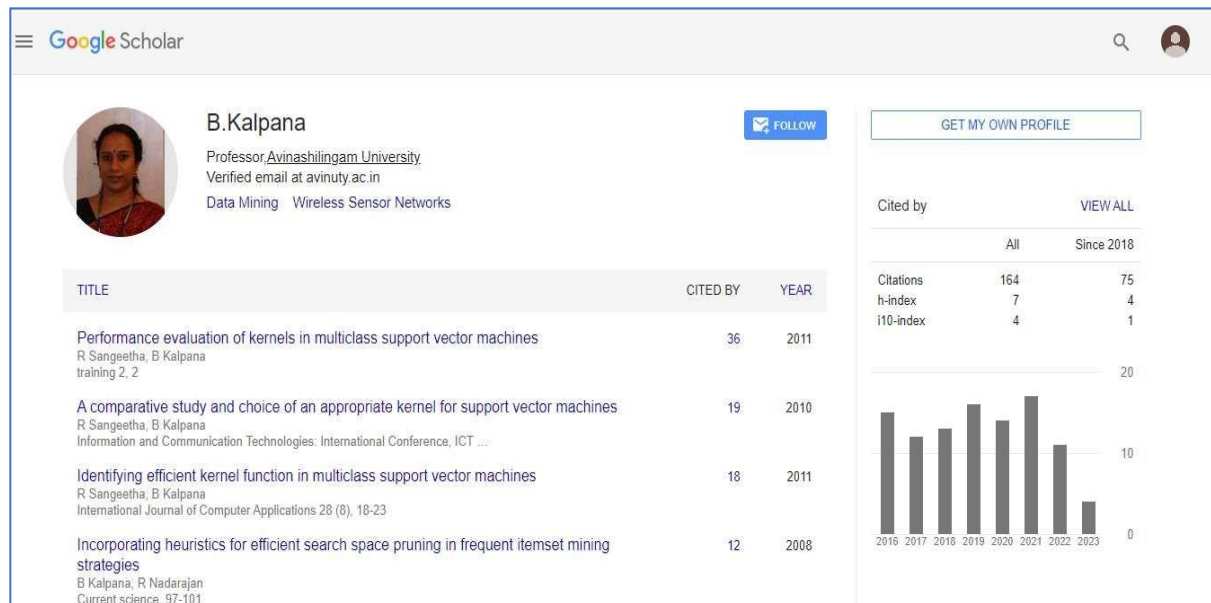
14. R. Sangeetha., Dr.B.Kalpana. “**Supervised Classification Techniques - A Review**”,National Conference on Information and Communication Technology, NCACT-2010, 23 rd April, 2010.
15. Dr.B.Kalpana,R. Sangeetha. “**A Study on Associative Classification Mining**”, National Conference on Advanced Computing Technologies, NCACT 2010, 19 th Feb-2010,ISBN 978-93-80381-02-2.
16. B. Dhivya, B. Kalpana. “**Semantic Web Usage Mining by a Concept Based Approach for Off-line Web Site Enhancements**”, NCACT 2010, 19 th Feb-2010 ISBN 978-93-80381-02-2.
17. K. Devi Priyaa, B.Kalpana, “**A Web Usage Mining Framework for Mining Evolving User Profiles in Dynamic Web Sites**”, NCACT 2010, 19 th Feb-2010, ISBN 978-93-80381-02-2.
18. Dr.B.Kalpana, R.Sangeetha.”**Nonlinear Principal Component Analysis Technique for Dimensionality Reduction in Large Scale Support Vector Machine Data**”, International Conference on Mathematics and Computer Science, ICMCS 2011, January 2011.
19. Dr B. Kalpana, R. Sangeetha, “**Distributed Data Association for Multitarget tracking- A Mathematical Perspective**”.International conference on Communication Technology and system Design 2011,Procedia engineering, Science Direct, Elsevier, ISSN 00(2011)000-000.pp 1037-1044., Vol -1,Issue-5, November. **Scopus Indexed, Web Of Science.**
20. Dr. B.Kalpana, R. Sangeetha.”**A Novel Framework for Target Tracking and Data Fusion in Wireless Sensor Networks using Kernel Based Learning Algorithm**”,SecondInternational Conference on Recent Trends in Information, Telecommunication and Computing – ITC 2011,March 2011, ISSN: 978-3-642-19541- 9 (Print) 978-3-642-19542-6(Online), **Scopus Indexed.**

21. R. Sangeetha., Dr.B.Kalpana.”**Denoising the Signals using Kalman Filter for Target Tracking in Wireless Sensor networks**”,Third International Conference on Electronics Computer Technology- ICECT 2011, April 8-10,2011.ISBN 978-1-4244- 879-9,**Scopus Indexed**.
22. S.Chitra, Dr. B.Kalpana .”**Hierarchical Directed Acyclic Graph (HDAG) Based Preprocessing Technique for Session Construction**”, Proceedings of the Second International Conference on Advances in Computing and Information Technology (ACITY) July 13-15, 2012, ISBN 978-3-642-31552-7, **Scopus Indexed**.
23. B.Kalpana, R.Sangeetha,”**A Collaborative Target Tracking Framework Using Particle Filter**”,IEEE Wireless and Mobile Networking Conference WMNC 2013,Canadian University of Dubai, ISSN 978-1-4673-5616-9, **Scopus Indexed**.
24. Chitra.S, Kalpana.B, “**A Novel Preprocessing Mixed Ancestral Graph Technique For Session Construction**”, International Conference On Computer Communication And Informatics, 2013, ISBN 978-1-4673-2907-1. IEEE Xplore. **Scopus Indexed**.
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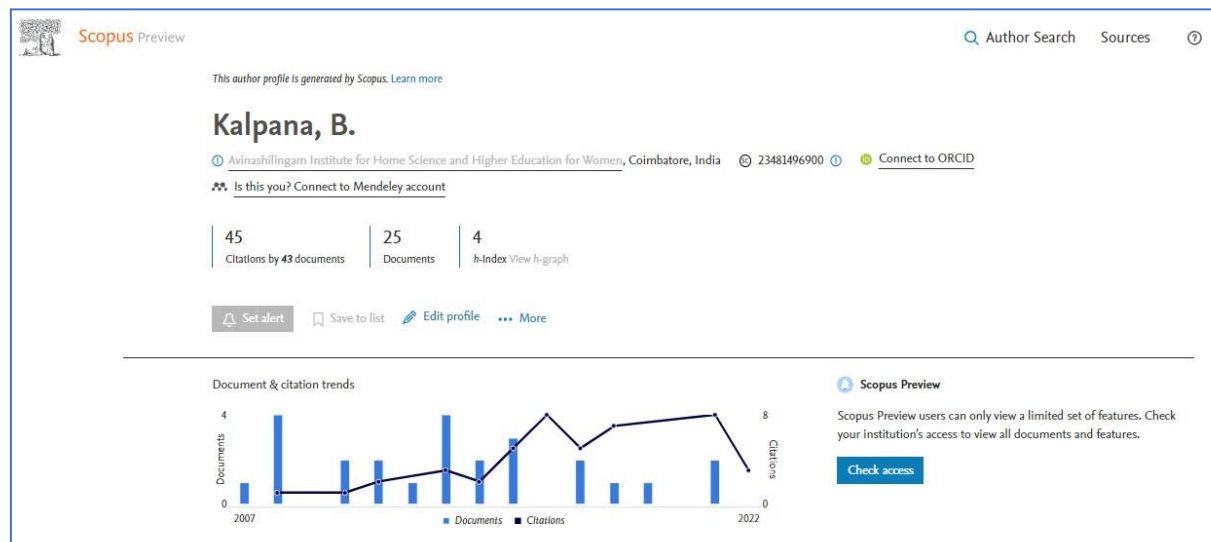
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