Name: Dr. R. Kousalya

Designation: Professor& Head

Department: Computer Applications

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

Experience:

Teaching: 22.7 Years Industry: 3Year Research:15 Years

Area of Specialization(s): Data mining

Email (Official ID):kousalya@drngpasc.ac.in Personal mail-id: kousalyacbe@gmail.com

Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Applications	Manonmaniam Sundaranar University, Tirunelveli	2016
M.Phil.	Computer Science	Manonmaniam Sundaranar University, Tirunelveli	2003
M. C.A	Computer Applications	Bharathiar University, Coimbatore 48	2000
B. Sc.	Physics	PSGR Krishnammal college for women, Bharathiar University, Coimbatore 48	1995

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
NPTEL	C Programming	IIT Kanpur	2017

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	4	1
M. Phil.	18	-

Research Publications (Indexed)

1. Dr.R.Kousalya, AN OPTIMIZED WEIGHTED CONSENSUS CLUSTERING WITH REMOVAL OF LESS INFORMATIVE COMPOSITE CLUSTERS, DOI: 10.23919/INDIACom54597.2022.9763260, 2022 9th International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi, ISSN 0973-7529(Indexed in IEEE, May 2022)

2. Dr.R.Kousalya, TRUST LEVEL EVALAUATION BASED ASYMMETRIC CRYPTOGRAPHY PROTOCOL FOR FLEXIBLE ACCESS CONTROL IN FOG COMPUTING, International Journal of Computer Networks & Communications, Volume-13 Issue- 3, May 2021, ISSN: 0975 -2293(Indexed in Scopus)

3. Dr.R.Kousalya, "ARCHITECTURE FOR INTERACTIVE INTERNET OF THINGS TO ESTIMATE OPTIMAL MEAN TEMPERATURE WITH MULTIPHASE IN CROP INSURANCE PAYOUT SYSTEM", https://ieeexplore.ieee.org/document/9032579/12ᵗʰMarch 2020/DOI:10.11091/I-SMAC47947.2019.9032579(Indexed in **IEEE Xplore**)

4. Dr.R.Kousalya, "ENSEMBLE HYBRID K- MEANS AND DBSCAN CLUSTERING ALGORITHM – HDKA FOR CANCER DATASET",International Journal of Recent Technology and Engineering (IJRTE), Volume-8 Issue-4, November 2019. Page No: 6036-6040, ISSN: 2277-3878. (Indexed in **Scopus**)

5. Dr.R.Kousalya, "DESIGNING WEATHER BASED CROP INSURANCE PAYOUT ESTIMATION BASED ON AGRO- METEOROLOGICAL DATA USING MACHINE LEARNING ALGORITHMS ", International Journal of Recent Technology and Engineering (IJRTE), Volume-8 Issue-3, September 2019. Page No: 2953-2960, ISSN: 2277-3878. (Indexed in **Scopus**)

6. Dr.R.Kousalya, "ROUND TRIP LATENCY BASED AUTHENTICATION SCHEME IN FOG- ENABLED CLOUD COMPUTING SYSTEM ", International Journal of Recent Technology and Engineering (IJRTE), Volume-8 Issue-2, July 2019. Page No: 1270-1278, ISSN: 2277-3878. (Indexed in **Scopus**)

7. Dr.R.Kousalya, "PERFORMANCE EVALUATION OF DATA MINING TECHNIQUES USING CANCER DATASET", International Journal of Research and Analytical Reviews (IJRAR), Volume 6, Issue 2, June 2019, ISSN 2349-5138(Indexed in UGC)

8. Dr.R.Kousalya,"WHEATHER BASED PREDICTION MODEL FOR RECOMMENDING THE CROP INSURANCE USING CART ALGORITHIM", International Journal of Computer trends and technology (IJCTT), Volume 67, Issue 4, April 2019, ISSN 2231-2803 (Indexed in Google scholoar)

9. Dr.R. Kousalya "IMAGE CAPTIONING MODEL FOR CONTENT BASED IMAGE RETRIEVAL USING DEEP LEARNING",Journal of Advanced Research in Dynamical & Control Systems, Vol. 11,Special Issue-03, 2019,ISSN 1943-023X. (Indexed in UGC)

10. Dr.R.Kousalya, "BIG DATA APPROACH FOR WEATHER BASED CROP INSURANCE" International journal of computer science and engineering, Vol.06, Issue. 8 , pp.34-39, Oct-2018(Indexed in UGC)

11. Dr.R.Kousalya" AN ANALYTICAL APPROACH ON DATA MINING IN AGRI-CLINICS-A SURVEY" International Journal of Science, Engineering and Management, Vol 2 ,Issue 12,December 2017, ISSN:2456-1304,impact factor 2.7. (Indexed in Google Scholar)

12. Dr.R.Kousalya" ENHANCEMENT OF TRAFFIC AWARE PARTITION IN MAPREDUCE USING CLUSTERING TECHNIQUES" International journal of advanced research in computer science, Vol. 8,N0.9, December 2017,ISSN: 0976-5697,impact factor 0.654. (Indexed in Google Scholar)

13. Dr.R.Kousalya" ENHANCEMENT OF MAPREDUCE USING CLUSTERING TECHNIQUES" International journal of advanced research in computer science, Vol. 8,N0.9, December 2017,ISSN: 0976-5697,impact factor 0.654. (Indexed in Google Scholar)

14. Dr.R.Kousalya "REVIEW ON BIG DATA ANALYTICS AND HADOOP FRAMEWORK" International journal of innovations in scientific and engineering research, 2347-9728, Vol 3 Issue3 March 2017, impact factor 1.07. (Indexed in Google Scholar)

15. Dr.R.Kousalya, MULTIPLE VIDEO INSTANCE DETECTION AND RETRIEVAL USING SPATIO TEMPORAL ANALYSIS USING SEMI SUPERVISED SVM ALGORITHM" International journal of computer Applications , 0975-8887, Volume 163 No 4, April 2017, impact factor 2.162. (Indexed in Google Scholar)

16. Dr.R.Kousalya "OVERVIEW OF TRAJECTORY DATA MINING AND THE TECHNIQUES USED" International journal of research in computer application & management, Vol.6, Issue No. 9, 2016. (Indexed in Google Scholar)

17. Dr.R.Kousalya "WEBPAGE CHANGE DETECTION USING DATA MINING TECHNIQUES AND ALGORITHMS"International Journal of computer science and engineering technology, Vol.6, Issue No. 10, 2015 (Indexed in Google Scholar)

18. Mrs.R.Kousalya" PERSONALIZING USER DIRECTORIES THROUGH NAVIGATION BEHAVIOUR OF INTERESTING GROUPS AND ACHIEVING MINING TASK" Theoretical and Applied Information Technology, Vol 67, No 2. Sep 2014, ISSN: 1992-8645, H-Index 7.(Indexed in **Scopus**)

19. Mrs.R.Kousalya" AN ENHANCED PATH SEQUENCE ALGORITHM FOR PERSONALIZED WEB DIRECTORIES" Inventi Rapid, October 2014. (Indexed in Google Scholar)

20. Mrs.R.Kousalya "WEB MINING THROUGH SEMANTIC SIMILARITY MEASURES BETWEEN WORDS USING PAGE COUNTS" International Journal of Advanced Research in Computer Science and Software Engineering, Vol 4 issue 9 - Sep 2014, Vol 4 issue 9 - Sep 2014,imapact factor 2.08. (Indexed in Google Scholar)

21. Mrs.R.Kousalya "WEB USAGE MINING USING D-APRIORI AND DFP ALGORITHM" International Journal of Scientific & Engineering Research Volume 4, Issue 3, March 2013 ISSN 2229-5518 ,Impact Factor 1.4. (Indexed in Google Scholar)

22. Mrs.R.Kousalya "SEMANTIC WEB USER PERSONALIZATION AND SEARCH TECHNIQUES BASED ON TIME AND WEATHER CONDITION" International Journal of Emerging Technologies in Computational and Applied Sciences , Volume4 Issue 7, ISSN:2279-0055, March 2013 ,impact factor1.234. (Indexed in Google Scholar)

23. Mrs.R.Kousalya "CONTENT BASED RECOMMENDATION SYSTEM FOR WEB PERSONALISATION" International Journal of Circuit Theory and Applications, Volume 4(6) Issue 7, ISSN:2229-6093,March 2013 ,impact factor 1.3. (Indexed in Google Scholar)

24. Mrs.R.Kousalya " AN EFFICIENT AND ENHANCED PATH SEQUENCE ALGORITHM FOR MISSING PAGES IN COMMUNITY WEB" International Journal of Emerging Technologies in Computational and Applied Sciences, Volume 1 special issue 7, ISSN 2279-0055 ,August 2013, impact factor 1.234. (Indexed in Google Scholar)

25. Mrs.R.Kousalya " CONTENT BASED RECOMMENDATION SYSTEM FOR INTERACTIVE DIGITAL TELEVISIONS" International Association of Scientific Innovation and Research volume special issue 7, ISSN 2279-0055 ,July 2013,impact factor 1.234. (Indexed in Google Scholar)

26. Mrs.R.Kousalya " A SEMANTIC SIMILARITY MEASURE USING BOTH PAGE COUNTS AND SNIPPETS RETRIEVAL FORM A WEB SEARCH ENGINE" International Journal of

Engineering Research & Technology, Vol 2 issue 2 Feb 2013, ISSN : 2278 -0181. (Indexed in Google Scholar)

27. Mrs.R.Kousalya & Ms. K.Suguna " IMPROVING THE EFFICIENCY OF WEB USAGE MINING USING K-APRIORI AND FP-GROWTH ALGORITHM" International Journal Of Scientific and Engineering Research, Volume 4, Issue 3, March 2013, ISSN 2229-5518. (Indexed in Google Scholar)

28. Mrs.R.Kousalya " APPLING FP-GROWTH ALGORITHM TO REDUCE THE DATA LOG STORAGE SIZE IN WEB MINING " CiiT,   Dec 2012 ISSN : 0974-9578(Indexed in Google Scholar)

29. Mrs.R.Kousalya,"TIME BASED WEB USER PERSONALIZATION AND SEARCH" International Journal of Computer Application, Vol. 46 ,No.33, May 2012 ,ISSN:0975-8887. (Indexed in Google Scholar)

Conference / Seminar / Workshop Organized

1. **Treasurer**, National Conference on Advanced Computing Sciences- NCACS- 2K23, Dr. N.G.P. Arts and Science College , March 16, 2023.

2. **Convenor,** National Seminar " The Future Artificial Intelligence and Machine Learning Tools and its Applications for Rural Health Care: New Paradigm" on 14.02.2020.

3. **Organizing Secretary,** International conference on Research trends in computing technologies, ICRTCT-2020, Dr.N.G.P Arts and Science College ,28-Feb-2020 to 29-Feb-2020

4. **Ogranised Endowment Lecture** on **Scope** of Computer Applications in defense by Dr. S. Krishna Kumar,Technical Officer DRDO, Avadi, Chennai on 28.02.2020

5. **Convernor,** International conference on Research trends in computing technologies, Dr.N.G.P Arts and Science College , 9-Aug-18 to 10- Aug-18.

6. **Convenor &Organizing Secretary,** National Conference on Emerging Trends in Big Data Technologies and Research Issues ,Dr.N.G.P Arts and Science College, 24-Feb-17.

7. **Convenor &Organizing Secretary**, National Conference on Emerging Trends in Big Data Technologies and Research Issues ,Dr.N.G.P Arts and Science College, 24-Feb-17.

8. **Organizing Secretary**, Workshop on Python Programming, Dr. N.G.P. Arts and Science College, Coimbatore, 14-Sep-18 to 15-Aug-18

9. **Organizing Secretary**,Workshop on Mobile Application Development – Android, Dr. N.G.P. Arts and Science College, Coimbatore, 18-Dec-17 to 19-Dec-17

10. **Organizing Secretary**, Workshop on Data Visualization Tool:Tableau , Dr. N.G.P. Arts and Science College, Coimbatore, 07-Aug-17 to 12-Aug-17

11. **Organizing secretary,** National level technical symbosium TECHKNOWLEGE -2015 , Dr. N.G.P Arts and Science College

12. **Convener & Organizing Secretary**, National Level Conference on Research Issues in Computer Applications, Dr.N.G.P Arts and Science College,21-Feb-14.

Presentations in Conference

1. A STUDY ON NEW VISION OF COMPUTING AUTOMATIC COMPUTING IN SOLVING COMPLEX PROBLEMS, National conference on Advanced Computing Science (NCACS-2K23), March 16,2023

2. CURRENT NETWORK MANAGEMENT AND PROTECTION WITHIN BIG ENTERPRISE NETWORKS, National conference on Advanced Computing Science (NCACS-2K23), March 16,2023

3. AN OPTIMIZED WEIGHTED CONSENSUS CLUSTERING WITH REMOVAL OF LESS INFORMATIVE COMPOSITE CLUSTERS, 2022 9th International Conference on Computing for Sustainable Global Development, BVICAM, New Delhi.

4. FLEXIBLE ACCESS CONTROL WITH USER REVOCATION IN FOG-ENABLED CLOUD COMPUTING IEEE 6th International Conference on Inventive Computation Technologies, Technical Campus, Coimbatore, 20-Jan-21 to 21-Jan-21.

5. ARCHITECTURE FOR INTERACTIVE INTERNET OF THINGS TO ESTIMATE OPTIMAL MEAN TEMPERATURE WITH MULTIPHASE IN CROP INSURANCE PAYOUT SYSTEM, https:// ieeexplore.ieee.org/document/9032579/12thMarch 2020/DOI:10.11091/I-SMAC47947.2019.9032579. Published in Third international conference on I-SMAC(IoT in Social, Mobile, Analytics and Cloud)

6. TWO PHASE CONTENT BASED IMAGE RETRIEVAL WITH RELEVANCE RANKING ON CLASSIFIED IMAGES, International Conference on Computer

Communication and Informatics, Sri Sakthi institute of engineering and technology ,23- Jan-19 to 25- Jan-19.

7. BIG DATA APPROACH FOR WEATHER BASED CROP INSURANCE, International conference on Research trends in computing technologies ,Dr.N.G.P Arts and Science College , 9-Aug-18 to 10- Aug-18.

8. A SURVEY ON DIAGNOSIS AND PROGNOSIS OF BREAST CANCER DISEASE USING DATA MINING TECHNIQUES, International Conference on Research Trends in computing Technologies ,Dr.N.G.P Arts and Science College,Coimbatore,9-Aug-2018 to 10-Aug-18.

9. ROLE PF DEEP LEARNING FOR CONTENT BASED IMAGE RETRIEVAL USING CONVOLUTIONAL NEURAL NETWORK, International Conference on Research Trends in Computing Technologies,Dr.N.G.P Arts and Science College ,Coimbatore,9-Aug-18 to 10- Aug- 18.

10. AN ANALYTICAL APPROACH ON DATA MINING IN AGRI-CLINICS-A SURVEY, International conference on Recent Advancements in Information Technology, Science & Engineering, A.P.C Mahalaxmi College for Women,Thoothukudi, 14-Dec-17 to 15-Dec-17

11. SURVEY ON DATA ANALYTICS AND HADOOP FRAMEWORK, Paper presented in National Conference on Emerging Trends in Big Data Technologies and Research Issues Dr. N.G.P Arts and Science College, 24- Feb-17.

12. A SURVEY ON DATA MINING CHALLENGES WITH BIG DATA, Paper presented in International Conference on Advances in information technology and networking, Dr.G.R. Damodaran College of Science,Coimbatore,2- Feb-17.

13. A REVIEW ON WEB MINING AND ITS TECHNIQUES, National Conference on Recent advancement in computer Applications,   AJK College of Arts And Science , 28- Jan-16 to 29- Jan-16.

14. RESEARCH DEVELOPMENT AND OPPORTUNITIES IN EDUCATION, National Conference Association of principals of colleges of Bharathiar university,1-Aug-15.

15. WEB PAGE CHANGE DETECTION USING HASHING FUNCTIONS, National Conference on Information and Image Processing, Sankara college of science and commerce, Coimbatore, 27-Feb-15.

16. AN EFFICIENT AND ENHANCED PATH SEQUENCE ALGORITHM FOR MISSING PAGES IN COMMUNITY WEB, National Conference on Research issues in Computer Applications, Dr.N.G.P Arts and Science College,21⁻ Feb-14

17. A COMPARISON ON DATA PRE PROCESSING AND PATTERN ANALYSIS OF SERVER LOG FILES IN WEB USAGE MINING USING A-PRIORY AND FP GROWTH ALGORITHM,International Conference on Research Trends in Computer Technologies, Dr.N.G.P Arts and Science College on 30-Jan- 13 to31-Jan-13.

18. ASEMANTIC SIMILARITY MEASURE USING BOTH PAGE COUNT AND SNIPPINESS RETRIEVAL FROM A WEB SEARCH ENGINE, National Conference on Innovations in Communicative World,Dr.N.G.P Arts andScience College, 27-Sep-12

19. APPLYING FP GROWTH ALGORITHM TO REDUCE THE DATA LOG STORAGE SIZE IN WEB MINING,National Conference on Computer Applications in Service Sector, Dr.N.G.P Arts and Science College,Coimbatore,7-Sep-12

20. WEB INFORMATION MINING IN XML FRAMEWORK,National Conference on Advanced Computing in Computer Communications,Sri Ramakrishna Engineering College, 24-Mar-12.

21. AN EFFICIENT WEB SEARCH, International Conference on Innovations in the Digital World,Krishnammal College for Women, 3-Jan-12.

22. DATA MINING APPROACHES FOR INTRUSION DETECTION, International Conference on Innovations in the Digital World, PSGR Krishnammal College for Women, 3- Jan- 12.

23. ROLE OF ICT IN HIGHER EDUCATION, ICT AS A CHANGE AGENT FOR EDUCATION ,National Conference on Innovations in Teaching-Learning ,Research and Unique Practices in Higher Education,Kristu Jayanti College, Bangalore,17-Nov-11 to 18-Nov-11.

24. ALTERNATE APPROACH OF IRIS DATASET CLASSIFICATION USING SUPPORT VECTOR MACHINE, National Conference on Multimedia Signal Processing and Networking, Dr.N.G.P Institute of Technology, 30-Oct-10

25. ARTIFICIAL NEURAL NETWORK FOR MISUSE DETECTION, National Conference on Computer Communication and Informatics, RVS College of Arts and Science ,11-Feb-10.

26. ELLIPTIC CURVE CRYPTOGRAPHY IN MOBILE DEVICES,National Conference on Recent Trends in Network Security, V.L.B. Janakiammal College of Arts and Science23-Jan-09.

Participation in Seminars

1. Digital Connectivity- Social impact, Computer society of India(CSI), Le Meridien ,23-Jan-17, 24-Jan-17 and 25-Jan-17
2. ICT IN HIGHER EDUCATION, Rathinam College of Arts and Science, 19-Dec-08 to 20-Dec-08
3. ROLE OF TECHNOLOGY IN HIGHER EDUCATION, Kovai Kalimagal College of Arts and Science, 1-Mar-13 to 2-Mar-13
4. IDEATE INNOVATE INCUBATE IMPLEMENT, **ICTACT Bridge 2012" , Le meridian , Coimbatore** 27-June -2012
5. Recent trends in information Technology, Bishop Ambrose College, 30-Jan-2004.

Participation in Workshop

1. INTRODUCTION TO PHP PROGRAMMING , SNR Sons college, 12-Aug-15 to 13-Aug-15.
2. DATA VIZUALIZATION WITH TABLEAU, Dr.N.G.P Arts and Science College,07-Aug-18 to 08-Aug-17

Participation in Faculty Development Programme

1. Online FDP on "Research Methodology and Pedagogy for Tertiary Education",Dr.N.G.P. Arts and Science College ,15-Jun-21 to 21-Jun-21.

2. Seven Day Faculty Development Programme on NAAC Revised Accreditation Framework and OBEAssessment Methodology, Dr.N.G.P. Arts and Science College, 27-May-19 to 02-Jun-19.

3. QUALITY INITIATIVES IN HIGHER EDUCATION, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Dec-18 to 9-Dec-18.

Invited Speaker / Session Chair / Member Organizing Committee - Conference / Seminar / Workshop

Invited Speaker, Guest lecture on Data Mining, VLB Janakiammal college ,Coimbatore , 10-Aug-15

Member in BoS

Board of Computer Science, Sree Saraswathi Thyagaraja College ,Pollachi,since 2018 to till date

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Computer Society of India (CSI)	Annual	yearly