Dr. CH.KAVITHA

Department : **Information Technology**
College : **Gudlavalleru Engineering College**
Phone No : **08674-273737 Extn: 2036**
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RESIDENTIAL ADDRESS:

Flat No: 103   Ganesh Paradise Apartment, vidya vikas school road, near bypass road, Gudivada-521301

ACADEMIC QUALIFICATIONS:
B.Tech., M.Tech., Ph.D.

ACADEMIC REWARDS / ACHIEVEMENTS:
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- Chairman, Board of Studies for the IT department.
- Member-Academic Council, College Management Committee, College Academic Committee, IQAC.

PROFESSIONAL EXPERIENCE:

Designation	Institution	Period
Professor and Head	Gudlavalleru Engineering College	**1-7-2017 to till date**
Professor	Gudlavalleru Engineering College	1-7-2012 to 30-6-2017
Associate professor	Gudlavalleru Engineering College	1-8-2005 to 30-6-2012
Assistant Professor	Gudlavalleru Engineering College	24-7-2001 to 31-7-2005

PROJECTS GUIDED:

PhD	Post Graduation	Under Graduation
	6	**20**

SPECIALIZATION:
Image Processing, pattern Recognition, Machine Learning, IOT.

RESEARCH PAPERS/BOOKS:

BOOKS PUBLISHED: 01

❖ Ch.Kavitha, "An image retrieval with color and texture features of image sub-blocks", Germany, Scholar's Press - ISBN: 978-3-639-71324-4, 2014.

PAPERS PUBLISHED IN JOURNALS: 15

1. Ch.Kavitha, B.Prabhakara Rao, A.Govardhan, Article: "Image Retrieval Based On Color and Texture Features of the Image Sub-blocks" published in *International Journal of Computer Applications* vol.15, issue:7, pp:33–37, February 2011, ISSN:0975 – 8887, Published by Foundation of Computer Science, Impact Factor: 0.702 in 2016.

2. Ch.Kavitha, B.Prabhakara Rao and A.Govardhan, Article: "An Efficient Content Based Image Retrieval Using Color and Texture of Image Sub-blocks". published in *International Journal of Engineering science and technology,* vol.3, issue:2*,* pp:1060–1068, February 2011, ISSN : 0975-5462,Engg. journals publication, IC value in 2010: 3.14 .

3. Ch.Kavitha, M.Babu Rao, B.Prabhakara Rao, A.Govardhan, Article: "Image Retrieval based on Local Histogram and Texture Features", published in *International Journal of Computer science and information technologies,* vol.2, issue:2, March-April,2011, pp:741-746, ISSN: 0975-9646, Impact factor:2.28.

4. Ch.Kavitha, B.Prabhakara Rao, A.Govardhan, Article: "Image Retrieval based on combined features of image sub-blocks". published in *International Journal on Computer Science and Engineering,* vol.3 issue:4, April, 2011, pp:1429-1438, ISSN : 0975-3397.

5. Mohammed Imran, M. Babu Rao , Ch. Kavitha, Article: "An Improved Naive Bayes Classification to Enhance Image Registration", published in *International Journal of Computer Trends and Technology (IJCTT) – volume 6 number 3, PP: 158-162, Dec 2013,* ISSN: 2231-2803, Imapact Factor:2.75.

6. Pattan Kalesha, M. Babu Rao , Ch. Kavitha, Article: "Efficient Preprocessing and Patterns Identification Approach for Text Mining", published in *International Journal of Computer Trends and Technology (IJCTT) – volume 6 number 2, PP: 124-129, Dec 2013,* ISSN: 2231-2803, Imapact Factor:2.75.

7. Y.Manasa, M.BabuRao, Ch.Kavitha, "Image Retrieval system with Hash Codes based on Adaptive Query", published in *International Journal of Research in Computer Science & Engineering(IJRCSE)*-Volume 4, Issue-6, Nov - Dec, 2014, ISSN: 2321-5585 (Online), ISSN: 2321-0338(Print), Impact Factor:2.35.

8. K.N.S.Deepika, Dr.Ch.Kavitha, "Efficient Novel Sentence Level Text Clustering", published in *International Journal of Modern Trends in Engineering and Research (IJMTER),* Volume-02, Issue-07, July 2015, PP:14-19, ISSN (Online):2349–9745, ISSN (Print):2393-8161, Impact Factor:4.364 .

9. M.Nagarjuna, Ch.kavitha, M.BabuRao, "Privacy Preserving for Micro-Data Publications using TSS", published in *International Journal on Advanced Computer Theory and Engineering (IJACTE), Volume-4, Issue-5, 2015, ISSN(Print):2319-2526, Impact Factor:1.64.*

10. Tummala. Yenosh, CH. Kavitha, M. BabuRao, "Automatic Abnormal Behaviour Detection from videos", published in International Journal of Engineering Trends and Technology (IJETT) – Volume 30 Number 6 - December 2015, PP: 294-299, ISSN: 2231-5381, Impact Factor: 2.88.

11. Jyothi Anusha, Ch.Kavitha, M.Baburao, "Efficient Background Subtraction Using Improved Multilayered Codebook", published in International Journal of Computer & Organization Trends –Volume28 Number1– January 2016, ISSN: 2249-2593, Impact Factor: 2.11.

12. E. Mounika, Ch. Kavitha, "An Efficient Re-Ranking Approach for Image Search", published in International journal of Advanced Technology and Innovative research-Vol.08, Issue.07, July-2016, Pages:1467-1469, ISSN 2348–2370, Impact Factor: 4.106.

13. K. Dakshina murthy, Ch. Kavitha, "SIFT: An Effective Technique for Eigen Space Detection", published in International journal of Advanced Technology and Innovative research- Vol.08, Issue.07, July-2016, Pages:1476-1478, ISSN 2348–2370, Impact Factor: 0.513 in 2015.

14. U.Yasaswi, Ch.Kavitha, "Faster and Accurate Matching Technique for Palmprint Identification", published in International Journal of Innovative Technology and Research", Vol.5, Issue:3, April-May 2017, Pages:6364-6366, ISSN: 2320 –5547, Impact Factor: 0.513 in 2015.

15. Kunchaparthi Jyothsna Latha, Markapudi Baburao, Chaduvula Kavitha, "A Comparative study on Logit leaf model (LLM) and Support leaf model (SLM) for predicting the customer churn", published in International Journal of Computer Sciences and Engineering, Vol.7(5), May 2019, E-ISSN: 2347-2693.Pages:1628-1632, Impact Factor:3.022 in 2017.

PAPERS PRESENTED & PUBLISHED IN CONFERENCES: 10

- ❖ M.Babu Rao, Ch.Kavitha, B.Prabhakara Rao, A.Govardhan, "Image Retrieval through color Histograms" is published in the proceedings of International Conference MERG'05, October 2005, pp:119-122.

- ❖ Ch.Kavitha, M.Babu Rao, B.Prabhakara Rao, A.Govardhan, "Cluster based Image Retrieval" presented in the AICTE sponsored *National seminar on Data Mining and its Applications, organized by Department of CSE, at GEC on 20th & 21st January 2008,* pp:10-14.

- ❖ Ch.Kavitha, M.Babu Rao, B.Prabhakara Rao, A.Govardhan, "Image Retrieval using Data Mining Techniques" presented in the AICTE sponsored *National seminar on Data Mining and its Applications, organized by Department of CSE, at GEC on 20th & 21st January 2008,* pp:25-29.

- ❖ Ch.Kavitha, M.Babu Rao, B.Prabhakara Rao, A.Govardhan, "Image Retrieval based on Boarder/ Interior pixel classification" in the *National Conference "Technologia", 2010,* PP:13-18.

- ❖ Ch.Kavitha, M.Babu Rao, B.Prabhakara Rao, A.Govardhan, "Image Retrieval based on Skeleton Matching and Dominant Color in the Foreground Objects" in the *National Conference "Technologia", 2010,* PP:5-9.

- ❖ M.Babu Rao, Ch.Kavitha, B.Prabhakara Rao, A.Govardhan, "Content Based Image Retrieval by Using an Integrated Matching Technique based on Most Similar Highest Priority Principle on the Color and Texture Features of the Image Sub-Blocks" is published in the proceedings of *International conference on advances in Information technology and Mobile Communication AIM 2011, LNCS-CCIS 147, pp. 399–402, 2011.* © Springer-Verlag Berlin Heidelberg 2011.

- ❖ M.Babu Rao, Ch.Kavitha, B.Prabhakara Rao, A.Govardhan, "A Novel Image Retrieval Based on Multi Resolution Color and Texture Features of Image Sub-Blocks" is published in the proceedings of *International conference computational intelligence and information technology CIIT 2011, LNCS-CCIS 250, pp. 347-352, 2011.* © Springer-Verlag Berlin Heidelberg 2011.

- ❖ M.Babu Rao, B.Prabhakara Rao, A.Govardhan, "Content Based Image Retrieval Based on Dominant Color, Scan Pattern Co-Occurrence Matrix of A Motif and Shape" is published in the proceedings of *International conference computational intelligence and information technology CIIT 2011, LNCS-CCIS 250, pp. 353-357, 2011.* © Springer-Verlag Berlin Heidelberg 2011.

- ❖ Ch.Ratna Jyothi, Ch.Kavitha, "Image Retrieval Using Index Histogram and Edge Direction Histogram" is presented in AICTE sponsored national seminar on *Artificial Intelligence Applications in Image Processing* organized by Department of CSE on 29th August 2012.
- ❖ M.Babu Rao, Ch.Kavitha, B.Prabhakara Rao, A.Govardhan, "A New Feature Set For Content Based Image Retrieval", is presented in the IEEE Sponsored International Conference on Information, Communication & Embedded Systems (ICICES-2013), February 2013. DOI:10.1109/ICICES.2013.6508182. Page No's: 84-89.

LIST OF WORKSHOPS ORGANIZED:

- ❖ Conducted a two day faculty development program on "Recent Developments in Cloud Computing" organized by department of IT at GEC, during 17th & 18th August 2012.
- ❖ Organized a One day workshop for IV B.Tech. Students on Network routing & Switching on 5th August 2017 in the Department of Information Technology, Gudlavalleru Engineering College.
- ❖ Organized a Two day workshop for II & III B.Tech. Students on "Python Programming" from 23rd – 24th September 2017 in the Department of Information Technology, Gudlavalleru Engineering College.
- ❖ Organized a Two day workshop, IPV4 & IPV6 on 24th and 25th November 2017 in the Department of Information Technology, Gudlavalleru Engineering College.
- ❖ Organized a One day OBE workshop on Teaching Methodologies on 9th December 2017 in the Department of Information Technology, Gudlavalleru Engineering College.
- ❖ Organized one day workshop on Curriculum Design on 22nd January 2018 in the Department of Information Technology, Gudlavalleru Engineering College.
- ❖ Organized a one week Faculty Development Program on Machine Learning – Recent Trends and Applications in association with Electronics & ICT Academy of NIT Warangal during 3rd -8th February 2018.

LIST OF WORKSHOPS /CONFERENCES /SEMINARS ATTENDED:

National Level:

- ❖ Attended one week short term course on "Instructional Design and Delivery (Phase-1)" organized by NITTTR, Chennai as a part of Quality Improvement Programme at GEC, from 21st April 2003 to 26th April 2003.

- ❖ Attended one week short term course on "Instructional Design and Delivery (Phase-2)" organized by NITTTR, Chennai as a part of Quality Improvement Programme at GEC from 3rd July 2006 to 8th July 2006.

- ❖ Attended a National workshop on "GRID COMPUTING AND ITS APPLICATIONS", sponsored by AICTE organized by Department of CSE at GEC during 13th to 24th February 2009.

- ❖ Participated in AICTE Sponsored Staff Development Program on "Current Trends in Biometrics" organized by Department of IT, at GEC during 2nd to 14th November 2009.

- ❖ Participated in the National **seminar** on "Intrusion Detection using Data Mining" sponsored by AICTE, at GEC on 25th & 26th February 2010.

- ❖ Participated in a Two-week ISTE workshop on "Akash for Education" conducted by IIT Bombay, at GEC on 10th & 11th November 2012.

- ❖ Participated in a Two-week ISTE workshop on "Database Management Systems" conducted by IIT Bombay, at GEC from 21st to 31st May 2013.

- ❖ Participated in a Two-week ISTE workshop on "Computer Programming" conducted by IIT Bombay, at GEC from 20th May to June 21st 2014.

- ❖ Participated in a Two-week ISTE workshop on "Computer Networking" conducted by IIT Bombay, at GEC from 28th to 5th July 2014.

- ❖ Participated in a Two-week ISTE STTP on "Introduction to Design of Algorithms" conducted by IIT Kharagpur at GEC from 27th April to 30th May 2015.

- ❖ Participated in one week Faculty Development program on "Computer Vision, Information Theory & Analytics (CVITA-2k17) form 28th August to 1st September 2017 organized by Department of CSE in association with CSI at PVPSIT, Vijayawada, Andhra Pradesh.

State level:

- ❖ Attended the short-term intensive course on "Design and Analysis of Algorithms" conducted by the department of CSE, Vignan's Engineering College from 12th May to 16th May 2003 as a part of quality improvement programme for Engineering faculty.

- ❖ Participated in two day workshop on "Mobile Computing" organized by the department of CSE at GEC on 29th & 30th October 2010.

- ❖ Participated in a two day workshop on "Research Challenges and Issues in BigData and Hadoop Framework", organized by Department of IT at GEC during 12th and 13th of March 2015.

College level:

- ❖ Attended the three day workshop on "Software Project Management" organized by the departments of CSE & IT at GEC during 28th to 30th April 2006.

- ❖ Attended a workshop organized by Microsoft & IEG/JKC through MANA TV on Systems Integration: The Microsoft way on 20th February 2009.

- ❖ Participated in two day faculty development program on "Modelling and Texture Mapping using MAYA" organized by department of IT at GEC, during 3rd and 4th December 2010.

- ❖ Attended the complimentary training on MATLAB, Simulink & Related Tool Boxes for Engineering Education at GEC during 3rd & 4th April 2013.

- ❖ Participated in a two day workshop on "Hadoop" organized by Department of CSE in association with CSI & COMITY at GEC on 2nd & 3rd January 2015.

- ❖ Participated in a two day workshop on "Internet of Things" organized by Department of CSE at GEC in association with CSI on 27th & 28th November 2015.

- ❖ Participated in a three day faculty development program on "BigData Analytics" organized by Department of IT at GEC during 25th to 27th February 2016.

- ❖ Participated in two day workshop on Windows Azure organized by Department of CSE at GEC during 21st and 22nd March 2016.

1) Participated in one week faculty development programme on "Big Data Analytics", organized by Department of CSE, GEC during 14th to 19th November 2016.

2) Participated in a Two day faculty Development Programme on "Soft Computing Techniques", organized by Department of CSE, GEC during 21st and 22nd June 2017.

CERTIFICATIONS:

- ❖ Certified in "Problem solving through programming in C" by NPTEL with Elite grade in May 2018.

MEMBERSHIP IN PROFESSIONAL BODIES:

- ❖ FIE, Life Member in ISTE, Institute Nominee member for CSI.

GRANTS FETCHED:

- Completed In-house R&D project entitled "Smart Controlling and Monitoring System using Internet of Things" as a Principal Investigator from November 2015 to April 2017 by receiving a grant of Rs.68,076/- from the Gudlavalleru Engineering College.
- Recieved a grant of Rs 4,35,000/- from AICTE to organize Faculty development program on "Data Science and Data Analytics through Python and R programming" in July 2019.
- Received a grant of Rs. 25000/- from Gudlavalleru Engineering College to implement in-house R&D project entitled "smart bus tracking system" in the academic year 2018-19.