BIO-DATA

Of

Dr. M. SADANANDAM

PROFESSOR

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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BIO-DATA

Full Name:	**Dr. Manchala Sadanandam**
*Present Position***:**	Professor of CSE and Principal Of UCETW, Dept. of Computer Science & Engineering., Kakatiya University, Warangal, Telangana.
Contact:	
Office:	University College of Engineering & Technology(Women), Kakatiya University, Warangal, Telangana 506009.
Residence:	Flat No.: 102, H.No:2-2-470 Sri Ragavendra Residency, Kishanpura, Hanamkonda, Warangal Dist 506001.
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Education Qualification:

Doctor of Philosophy completed from Dept. of Computer Science & Engineering, JNTUH-Hyderabad Under the guidance of Prof.V.Kamakshi Prasad, JNTUH, Hyderabad.

Title of Ph.D Thesis: Text Independent Language Recognition using Statistical approaches.

M.Tech. (Computer Science & Engineering) from Dept. of Computer Science & Engineering, JNTUH, Hyderabad.

B. Tech. (Computer Science & Engineering) from University College of Engineering, Kakatiya University.

Teaching Experience:	**16years**
Titles of the Subjects Currently Teaching:	1. Theory of Computation
	2. Data Structures
	3. Machine Learning
Research Areas:	1. Speech Recognition
	2. Pattern recognition
	3. Data mining
	4. Machine Learning

Number of Ph. D Awarded under the Guidance   *03*

Number of Ph.D scholars   *02*

Number of Candidates Guided for M.Tech Projects: *40*

Number of invited talks: *15*

Number of Workshops Attended: *20*

Number of Workshops/Conference Organized: *5*

Number of publications: *52*

             International Journals   **: 42**

             International Conferences   **: 10**

Other Positions:

1) *Principal, UCETW, KU Campus*
2) *Director for Website and Networking, UMS*

Positions Held:

1) In-charge of IT department at UCE, Kothagudem from 2016 to Oct 2021

2) In-Charge of Computer Science and Engineering in KUCET from Nov 2021 to Sept 2015

3) *BOS chairman for CSE &IT during 2016*-18.

4) Joint Director for UCE (2007-2009) and KU Engineering Hostels(2010-2012).

5) Placement officer for University College of Engineering, Kothagudem(2007-2009)

Worked under various committees

1) Academic Coordinator
2) Course In-charge for M.Tech (CSE)
3) Member on the panel of Examiners for Masters courses of JNTU University and Kakatiya University, Hyderabad
4) Chairman, Board of Studies in CSE & IT
5) Member Board of Studies in Shatavahana University, Chaithanya Deemed to be University
6) Regional coordinator various public examinations like EAMCET, ECET, Police Recruitment test, Forest and TSNPDCL etc.
7) Participated in various selection committees including faculty selections and Research associates.(Kakatiya University, KITS, SR Engg College, CDAC, Vaagdevi Engineering College, Shatavahana University, Chaithanya University)
8) Admission committee member for Ph.D admissions (Engineering) in Kakatiya University.

Fellowships:

1. Selected as Associate fellow in engineering science in Telangana Academy Science(TAS)

Membership of Professional bodies:

1) Associate Fellow in Telangana Academy of Science
2) Member IEEE
3) Life member, ISTE (Indian Society for Technical Education)
4) Member CSI
5) Member of IAENG.

PUBLICATIONS:

Journals (2022-2020):

1. Bhukya Hanumanthu and Manchala Sadanandam. "Design of metaheuristic rough set-based feature selection and rule-based medical data classification model on MapReduce framework" Journal of Intelligent Systems, vol. 31, no. 1, 2022, pp. 1002-1013. https://doi.org/10.1515/jisys-2022-0066, Publisher: DE GRUYTER. IF: 1.825

2. Bhukya Hanumanthu, and Sadanandam M. (2022). Handling uncertainty using optimal clustering with rough sets-based rule generation model for data classification. Expert Systems (Wiley), e13026. https://doi.org/10.1111/exsy.13026.Publisher: WileyIF: 3.09

3. Raghu K, Sadanandam, M "Emotion Recognition from Speech Utterances with Hybrid Spectral Features Using Machine Learning Algorithms" Traitement du Signal, Vol. 39, No. 2, April, 2022, pp. 603-609 (SCI). ISSN: 0765-0019 (print); 1958-5608 (online) Publisher: International Information and Engineering Technology Association IF 2.299.

4. Sadanandam M, Srilekha A, T Archana Self Service Analytics - An Integrated Software Solution Tianjin DaxueXuebao (ZiranKexueyuGongchengJishu Ban) / Journal of Tianjin University Science and Technology ISSN (Online): 0493-2137 E-Publication: Online Open Access Vol:54 Issue:12:2021 DOI 10.17605/OSF.IO/NCF54.

5. Raghu, K., Sadanandam, M. (2021). A perspective study on speech emotion recognition: Databases, features and classification models. Traitement du Signal, Vol. 38, No. 6, pp. 1861-1873. https://doi.org/10.18280/ts.380631 Dec 2021 (SCI). Publisher: IIETA

6. Satla, Shivaprasad & Manchala, Sadanandam. (2021). Dialect Identification in Telugu Language Speech Utterance Using Modified Features with Deep Neural Network. Traitement du Signal. 38. 1793-1799. 10.18280/ts.380623 Dec 2021. (SCI).Publisher: IIETA

7. BV Pranay Kumar, M Sadanandam "A Comprehensive Review of Approaches, Methods, Challenges and Applications in Sentiment Analysis" Turkish Journal of Computer and Mathematics Education Vol.12 No.14 (2021), 6136-6161. Publisher: Science Research Society IF: 0.218.

8. M. Sadanandam, "HMM Based Language Identification from Speech Utterances of Popular Indic Languages Using Spectral and Prosodic Features" Traitement du Signal, Vol 38.No.2 April 2021 PP:521-528-(SCI). Publisher: IIETA

9. S.Shivaprasad, Dr.M Sadanandam "Dialect recognition from Telugu speech utterances using spectral and prosodic features" International journal of speech technology,24 June 2021, https://doi.org/10.1007/s10772-021-09854-8 IF: 1.457 (Scopus, ESCI) Springer publications

10. S. Shivaprasad. M. Sadanandam "Comparison of Different Feature Extraction Techniques in Telugu Dialects Identification" Turkish Journal of Computer and Mathematics Education Vol.12 No. 9, 2021, pp:3196-3206. IF: 0.32 (Scopus)

11. S. Shivaprasad M. Sadanandam "Optimized Features Extraction from Spectral and Temporal Features for Identifying the Telugu Dialects by Using GMM and HMM" Ingénierie des Systèmesd'Information,Vol. 26, No. 3, 2021, pp. 275-283. https://doi.org/10.18280/isi.260304 IF:1.088 (Scopus)

12. S.Shivaprasad, Dr.M Sadanandam " Identification of regional dialects of Telugu language using text independent speech processing models" International journal of speech technology Vol 23,issue 1, 2020. Pages: 251–258Doi:https://Doi.Org/10.1007/S10772-020-09678-Y.IF: 1.457(Scopus, ESCI).

13. S Shivaprasad, M Sadanandam, B Suvarna "Dangerous Prediction In Roads By Using Machine Learning Models" Ingénierie Des Systèmes D Information, vol.25,No.5,2020, pp. 637-644, Doi:https://Doi.Org/10.18280/Isi.250511 IF:1.088(Scopus)

14. S.Shivaprasad, M Sadanandam " Identification Of Dialects: Survey" , International Journal of Advanced Science and Technology, Vol29 issue 3, 2020. pp:10733 - 10739. IF:0.091(Scopus)

15. Hanumanthu Bhukya, Dr.M.Sadanandam. (2020). "Rough Sets base Incremental Associative Classification Rules Generation on Map Reduce Framework". International Journal of Advanced Science and Technology, 29(05), 13218-13227. *(Scopus indexed) Publisher Name: Science and Engineering Research Support Society.*

16. Hanumanthu Bhukya and Sadanandam M., "Map Reduce Driven Rough Set Fuzzy Classification Rule Generation for Big data Processing", in Springer Proc. of Sixth International Symposium on Intelligent Systems Technologies and Applications (ISTA'20), organized by Vellore Institute of Technology, Chennai, India during October 14-17, 2020. *(Scopus indexed)*

17. M. Sadanandam and V. KamakshiPrasad "New features for language recognition from speech signal ", Int. J. Advanced Intelligence Paradigms ISSN Print: 1755-0386-ONLINE:1755-0394 DOI: 10.1504/IJAIP..10023086 (**SCOPUS-INDERSCINCE**)

18. Kogila Raghu, M Sadanandam, V Kamakshi Prasad "An Examination of Emotion Recognition using Machine Learning Algorithms on Different Speech Databases" International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-4S2, March 2020.
Publisher: Blue Eyes Intelligence Engineering and Sciences Publication (BEIESP)

Journals (2019-2017):

1. Hanumanthu Bhukya and M.Sadanandam " Rough Sets Base Associative Classification Rules Extraction from Big Data" International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9, Issue-1, November 2019 p.no:3096-3102.
2. M. Sadanandam, "Performance Evaluation of Language Recognition Using Different Approaches" Journal of Adv Research in Dynamical & Control Systems, Vol. 11, No. 8, 2019 ISSN 1943-023X. Pno:1-9.
3. M. Sadanandam and V. Kamakshi Prasad "New features for language recognition from speech signal(in press)", Int. J. Advanced Intelligence Paradigms ISSN Print: 1755-0386 ISSN ONLINE: 1755-0394 DOI: 10.1504/IJAIP.2019.10023086
4. S.Shivaprasad and M. Sadanandam "Speech Based Query Searching Technique and It's Application In Library Management System" International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-3, September 2019 Pno:3361-3366.
5. K. Raghu and Dr.M. Sadanandam, "Emotion recognition in speech: Survey"Journal of applied science and computations ISSN.NO 1076-5131 volume vi issue 11 feb/2019 pp.2781-2788
6. Fareeha Haram and Dr.M.Sadanandam "Secure Protection Characterization and Quantification in Data Publishing" The International journal of analytical and experimental modal analysis" ISSN NO: 0886-9367 Volume XI, Issue IX, September/2019 Page:2953-2960.
7. N.Mounika and Dr.M.Sadanandam " Smart Home Automation Using in IOT and Android app" International journal for recent developments in science and Technology", Volume 03, Issue 09, Sept 2019 ISSN 2581 – 4575 Page 144-149.
8. S Ramya and Dr.M.Sadanandam "Health Observation on Social Media Over Time" International journal for recent developments in science and Technology", Volume 03, Issue 09, Sept 2019 ISSN 2581 – 4575 Page 150-156.
9. S Shivaprsad and M. Sadanandam," Data mining techniques in face detection and Recognition" Compliance Engineering Journal ISSN.NO 0898-3577 Volume 10 Issue 08 2019: PP:382-386.
10. Pranay kumar BV, M. Sadanandam "Future Opportunities and Challenges in Sentiment Analysis: An Overview", International Journal of Computer Sciences and Engineering", Vol. 5(12), Dec 2017, E-ISSN: 2347-2693, PP:279-286.
11. Pranay kumar BV, M. Sadanandam "A Study of Sentiment Analysis Methods, Tools and Challenges", International Journal of Management, Technology And Engineering Volume IX, Issue III, MARCH/2019, ISSN NO : 2249-7455 PP:936-948.
12. Rambabu Mudusu, A. Nagesh, M. Sadanandam "Enhancing Data Security Using Audio-Video Steganography, International Journal of Engineering & Technology, 7 (2.20) (2018) ISSN 2227-524X 276-279.
13. M.RAMBABU, N. Ramana, Dr. M. Sadanandam "An Active and Collaborative Learning Practice through Mind Mapping Using Jigsaw Activity of Class Room Based Interaction in Engineering Education", Journal of Engineering Education Transformations, Special Issue Jan. 2018, eISSN 2394-1707.
14. M.RAMBABU, N. Ramana, Dr. M. Sadanandam "Data Sharing Procedure Implication of User Defined Information Security Using Authentication Services "International Journal of Computational Intelligence Research ISSN 0973-1873 Volume 13, Number 9 (2017), pp. 2209-2219.

15. M.RAMBABU, N. Ramana, Dr. M. Sadanandam, " Enhanced Honey Cipher Structure with Multiple Cipher Structures", International Journal of Creative Research Thoughts (IJCRT) Dec 2017| ISSN: 2320-2882, pp:442-447.

16. Kogila Raghu, M Sadanandam, V Kamakshi Prasad "An Examination of Emotion Recognition using Machine Learning Algorithms on Different Speech Databases" International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-4S2, March 2020

17. V. Sravanthi, M. Sadanandam "A novel and efficient aggregation method for ranking Fraud detection in mobile apps" International Journal of Scientific Development and Research (IJSDR), September 2018 IJSDR | Volume 3, Issue 9 ISSN: 2455-2631 PP:61-63.

18. Goriparthi Ratna Durga, M. Sadanandam "Recognizing Objective and Subjective Words through Topic Modeling" International journal of research Volume 7, Issue IX, September/2018, ISSN NO: 2236-6124 PP:209-213.

19. M. Sadanandam,M,Vani, M,Sathish kumar **"A Framework for Multi Keyword Search in Encrypted Cloud Data by using Inner Product Similarity "International Journal of Research" Volume 7, Issue VIII, August/2018 PP: 784-800.

20. T.Mahesh Kumar, M. Sadanandam "Discerning Mobile Malicious Web Pages in Real Time" International journal of research" Volume 7, Issue XI, Nov/2018, ISSN NO: 2236-6124:pp:700-704.

21. Pallakonda Archana, M. Sadanandam "Securing User's Location in Cognitive Radio Networks by implementing LPDB and LPDBQS" International journal of research", Volume 7, Issue IX, September/2018, ISSN NO: 2236-6124 PP:271-276.

22. Md. Asim Iqbal , K. Rajesh Reddy , Sadanandam Manchala "A System for Identifying Skin Cancer using Images" International Journal of Pure and Applied Mathematics", Volume 120 No. 6 2018, 7607-7620 ISSN: 1314-3395 (on-line version).

23. S.Shivaprasad, M Sadanandam, A Saranya, K Raghu " Efficient management of server platforms to meet customer requirement by using IMPI and FRU techniques" International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 10 (2018) pp. 8165-8178 © Research India Publications.

24. S.Shivaprasad, Ch Prasad A Ramaswamy reddy M Sadanandam "Design of a secure computation protocols for distributed association rule mining on partition data" International Journal of Engineering and Management Research, Volume-7, Issue-4, July-August 2017.

25. Md. Asim Iqbal , K. Rajesh Reddy , Sadanandam Manchala "Voice Signal Parameter Analysis towards Measuring the Severity of Asthma" Journal of Emerging Technologies and Innovative Research (JETIR) June 2018, Volume 5, Issue 6-2018. PP:199-205.

26. Md. Asim Iqbal , K. Rajesh Reddy , Sadanandam Manchala "Voice Signal Parameter Analysis towards Measuring the Severity of Asthma" Journal of Emerging Technologies and Innovative Research (JETIR) June 2018, Volume 5, Issue 6-2018. PP:199-205.

Journal (2016-2009)

1. M. Sadanandam and Varun Ch"An Upgraded SignCryption Scheme Using FORWARD Secrecy", International Journal of Research and Applications July-Sept 2015 Transactions PP.321-329.

2. M. Sadanandam and Harika D, "A Novel Face Recogntion Approach using Modular PCA with Neural Networks" International Journal of Research and Applications July-Sept 2015 Transactions PP.330-336.

3. M. Sadanandam and Varun Ch"A Survey on new approaches in SignCryption", International Journal of Research and Applications Apr-Jun 2015 Transactions PP.263-274.

4. S. Sivaprasad, A Ramaswamy Reddy, T. Ravi Prasad and M. Sadanandam "Optimaztion of Skein Hash Function Using Pluto Tool", International Journal of Applied Engineering Research ISSN 0973-4562 Vol-11, Number 5(2016) pp 3624-3631.

5. S. Shivaprasad and M. Sadanandam " Experimental Anlaysis of fixed parameter algorithms for odd cycle Transversals and Feedback Vertex sets', International Journal of Engineering and Management Research, Vol.-05 Oct 2015 PP 656-667.

6. M. Sadanandam "Performance Evaluation of Language Recognition Using Different Approaches", International Journal of Advanced Computing, ISSN: 2051-0845, Vol.48, Issue.1 March 2015 .pp 1596-1600.

7. M. Sadanandam and K. Rajesh Reddy "A System for Identifying Tuberculosis using Speech Signals", International journal of computer Science and communications IJCSC Volume 6 March 2015 pp.1-5 ISSN-0973-7391

8. Sadanandam Manchala, V. Kamakshi Prasad and V. Janaki "GMM based language identification system using robust features" International Journal of Speech Technology June 2014, Volume 17, Issue 2, pp 99-105

9. Chandra Mohan D and Sadanandam M "Telugu Pronominal Anaphora Resolution" International Journal of Research and Applications Jan-Mar © 2014 Transactions.

10. Chandra Mohan D, Sadanandam M and, Raju Korra "Software Metric Framework for Multilingual Information Retrieval (MLIR) System Performance Assessment", International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), Volume 2, Issue 4, July – August 2013.

11. M. Sadanandam, Dr. V. Kamakshi Prasad, Dr. V. Janaki "Text Independent Language Recognition using Dhmm. International Journal of Computer Applications 48(7):42-45, June 2012.

12. M. Sadanandam, Dr. V. Kamakshi Prasad, Dr. V. Janaki "Automatic Language Recognition System using new Features and their Weightage", Recent Science: International Journal of Advanced Computing, Vol.35 Issue.7 380 © RSIJAC 2012.

13. M. Sadanandam, V. Kamakshi Prasad, V. Janaki, "DHMM Based Automatic Language Identification System", International Journal of Information Technology and Knowledge Management, 2012, Vol.6.pp.93-97.

14. M. Sadanandam, Dr. V. Kamakshi Prasad, A. Nagesh, NEW FEATURES FOR LANGUAGE IDENTIFICATION USING GMM ", International Journal of Computer Science and Communications(IJCSC), V l. 3, No. 1, January-June 2012, pp. 51-55 ISSN : 0973-7391.

15. M. Sadanandam, A. Nagesh "Language Identification using Ergodic hidden Markov Model" International Journal of Advanced Research in Computer Science and Software Engineering" Volume2, Issue11,November 2012, ISSN 2277128X.

16. Sadanandam. Manchala, D. Chandra Mohan and A. Nagesh "Word and Sentence Level Emotion Analyzation in Telugu Blog and News", International Journal of Computer Science, Engineering and Applications, Volume: 2 - volume NO: 3 - Issue: June 2012.

17. Sadanandam. Manchala, D. Chandra Mohan "Statistical Significance In Multilingual Information Retrieval (MLIR) System" IOSR Journal of Engineering Apr. 2012, Vol. 2(4) pp: 794-802 ISSN: 2250-3021.

18. M. Sadanandam, "LH-Cipher: A Linear Hierarchical Cipher approach for Data" Global Journal of Computer Science and Technology, Vol 12, No 1 (2012) 13-17.

Conferences:

1. Presented a paper entitled "Review on Accreditation standards to Improve gross enrolment ratio in HE" in the Two-day International Conference on "Higher Education in India: Opportunities, Challenges and Solutions" , held on March 20-21, 2022 at Kakatiya University, Warangal, Telangana State

2. Delivered an expert lecture on topic "Data Intelligence" during 22-26 March, 2022" on 25.03.2022(AN)in Faculty development program on "Data Intelligence and Computation"(virtual mode) Organized by CCE,NITW.

3. Delivered an expert lecture on topic "AI & ML Introduction" during 23-27 May, 2022" on 23.05.2022(AN) in Faculty development program on "Al-ML Based Systems for Electric & Autonomous Vehicles"(virtual mode) Organized by CCE,NITW.

4. Presented a paper entitled "Detecting hate speech and malicious content using Sentiment analysis for preventing Social Riots and Environmental Damage. in the 5International Conference on Mathematical Sciences and Emerging Applications in Technology (ICMSEAT-2022) during September 9-11, 2022, at GITAM(Deemed to be University), Hyderabad.

5. Presented a paper entitled " Speech Emotion Recognition using Robust Hybrid Fusion Features with Auto-Encoders" in the International Conference on Mathematical Sciences and Emerging Applications in Technology (ICMSEAT-2022) during September 9-11, 2022, At GITAM (Deemed to be University), Hyderabad.

6. Presented a paper entitled "Random Search Technique to Find the Dialects of Telugu Language" in the International Conference on Research in Sciences, Engineering and Technology (1CSRET-2021) , during 12h & 13th February-2021. At Sumathi Reddy Institute of Technology for Women (SRITW), Telangana.

7. Acted as a Resource Person in A Three Day National Level Workshop on "EMERGING TRENDS IN ARTIFICIAL INTELLIGENCE" Sponsored by DST - ICPS Division, Government of India, from 20-22 February, 2020. Kakatiya Institute of Technology & Science, Warangal.

8. Presented a paper entitled "An evaluation of emotion recognition using ML algorithm on different speech dialects" in the 4th International Conference on Computational Intelligence & Informatics (ICCII 2020), held during 14- I5 February, 2020 at JNTUH College of Engineering Hyderabad.

9. Pranay kumar BV, M. Sadanandam "A Study of Sentiment Analysis Methods, Tools and Challenges", 3rd International conference on research and modern innovations in Engineering and Technology(ICRMIET-2019, CJIT, Jangoan India.

10. M. Sadanandam, Dr. V. Kamakshi Prasad, Dr. V. Janaki, A. Nagesh "Text Independent Language Recognition System Using DHMM with new Features", IEEE –ICSP'2012, Beijing, China.

11. M. Sadanandam, Dr. V. Kamakshi Prasad, Dr. V. Janaki "Text Independent Language Recognition System for Indic Languages with new Features", 2012 IEEE international Conference on Computational Intelligence and Computing Research.

12. M. Sadanandam, V. Kamakshi Prasad "Automatic Text Independent Language Identification Using Reduct Set of Feature Vectors", IEEE International conference on Fuzzy Systems July, 2013 Hyderabad, India.

13. M. Sadanandam, Dr. V. Kamakshi Prasad, "GMM based Language identification System using Robust features", 15th international conference on Speech and Communication (SPECOM2013) at Czech Republic,2013 proceedings in LNCS of Springer.

14. M. Sadanandam, V. Kamakshi Prasad and E. Jagadeeshwar rao "Language Identification Using New Features: A significance of Rough k-means Clustering algorithm", International Conference on Rough Sets and Knowledge Technologies – ICRSKT-2014, JNTUH, Hyderabad.

15. M. Sadanandam, Dr. V. Kamakshi Prasad, Dr. V. Janaki and E. Jagadeeshwar rao "NEW FEATURES USING FUZZY C-MEANS ALOGORITHM FOR AUTOMATIC LANGUAGE RECOGNITION",2014 IEEE International Conference on Computational Intelligence and Computing Research (2014 IEEE ICCIC), December 2014, Coimbatore, INDIA.

16. R. Lakshman Naik, Manjula Bairam and Sadanandam Manchala, "A Framework for Secure Mobile Cloud Computing", International Conference on Computational Intelligence and Informatics-2016(ICCII-2016) held during May 28 -30, 2016 at JNTU, Hyderabad. ICCII 2016

(Dr. M. SADANANDAM)