Resume

Dr. M. Kiruthika
Telephone(Office)   **:** 022-27771000 extn: 445
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Name	Dr. M. Kiruthika
Designation	Associate Professor and Head of the Department, Computer Engineering

Total Experience

Teaching	28 years
Industrial	0 years

Qualifications

Exam Passed	Year	Institution/ University	Branch/Specialization	Percentage/CGPI
Phd	2022	Mumbai University	Technology (Electrical Engineering)	Awarded
M.E	1997	NIT, Tiruchirappalli (Formerly REC, Trichy)	Computer Science Engineering	70% (3rd Rank)
B.E	1992	Bharathidasan University	Electronics and Communication Engineering	73.2% (University 3rd Rank)

Employment Experience:

Institution	Year (From - To)	Designation
Fr. C. Rodrigues Institute of Technology, Vashi .	November 2023 till date	Head of the Department Computer Engineering
Fr. C. Rodrigues Institute of Technology, Vashi .	September 2010 till date	Associate Professor
Fr. C. Rodrigues Institute of Technology, Vashi .	July 2003 till September 2010	Assistant Professor
Fr. C. Rodrigues Institute of Technology, Vashi .	July 1997 till June 2003	Lecturer
NIT, Tiruchirappalli (Formerly REC, Trichy)	Jan. 1995 to Dec. 1996	Research Assistant

Subjects taught: Mobile Computing, Distributed Computing, Distributed Databases, Object Oriented Analysis and Design, Operating Systems, ADBMS, Data Mining , Digital Signal Processing, Digital Signal and Image Processing, Quantitative Analysis.

Area of Interest : Datamining , Distributed Computing , Networking , Security

Professional Societies Fellowship / Membership

ISTE-Life member

CSI

Achievements / Awards / Position

- Reviewer of Web of Science and Other Reputed Journals
- Reviewer of various International Conferences
- Recognized PG Teacher, Computer Engineering, University of Mumbai
- Coordinator of Computer and IT till 2011 and Coordinator of Computer till 2016.
- Held the post of Head of the Department from July '97 till Nov'04.

List of Publications :

National Conference :

1. Mrs. Kiruthika M, "*Metrics in Structural design and OO Design – A Review*",In the proceedings of **National Conference** on ' Information and Software Engineering' .Held at APVIT, Chennai, on 13th -14th February 2009.

2. Mrs. Kiruthika M, "*Analysis Of Various Techniques in Building an Image Database*",in the proceedings of **National Conference** on ' Recent trends in IT . NCRTIT 2009' to be held at VVPCOE, Ahmednagar on 20th -21st February.

3. Mrs. Kiruthika M, "*A Retrieval system To handle Information Overload Problems*",in the proceedings of **National Conference** on NCCCEM-09, in Khandesh College Of Engineering & Information Technology, Jalgaon. 20th – 21st March 2009

4. Mrs. Kiruthika M, "*Research Challenges In Integrating Information Retrieval Technology & Database Based On Ranking*" in proceedings of **National Conference** on NCCCEM-09, in Khandesh College Of Engineering & Information Technology, Jalgaon. 20th – 21st March 2009

5. Mrs. Kiruthika M, "*Implementation Of Data Mining Techniques*",in the proceedings of Second **National Conference** On Recent Trends In Computer Engineering RTCE '09 at Sinhgad College of Engineering,Pune.On Dec 29-30 2009

6. Mrs. Kiruthika M, "*Image Handling System Based On Meta Data Search*", in the proceedings of Second National Conference On Recent Trends In Computer Engineering RTCE '09 at Sinhgad College Of Engineering, Pune. On Dec 29-30 ,2009

7. Mrs. Kiruthika M, "*Operating System And Development Of Application For Mobile Devices*",in the proceedings of **National Conference** on Recent Trends in Computer Engineering, Communication, Information Technologies and Management NCRT2010 Dhule,on19-20 Feb 2010

8. Mrs. Kiruthika M, Mr. Ajay Pawar, Mr. Ketan Yekale, Mr. Chetan Chaudhari, Mr. Kiran Patil, "*Analysis of Apriori Algorithm A Practical Approach*",In the proceedings of **National Conference** on Nascent Technologies in Engineering Fields of Computer, Mechanical, Electronics and Telecommunication, Electrical and Information Technology, FrCRITVashi, On 25-26 Feb 2010

9. Mrs. Kiruthika M, "*Mathematical Analysis Of Apriori Algorithm*" , in the proceedings of **National Conference** on Pervasive Computing 2010 held at Singhgad College of Engg.,Pune on April 9-10

10. Mrs. Kiruthika M , Mrs. Shweta Tripathi,Mr. Karan Balkar, Ms. Reyomi Roy, Mr. Preeyank Pable,"*A Mobile Application to Access Remote Database using Web Services*",in the proceedings of "Third Biennial **National Conference** on Nascent Technologies in the Field of Computer Engg. & Information Tech. NCNTE-2012" held at Fr.C.R.I.T ,Vashi on 24-25 Feb-2012

International Conference :

1. Mrs. Kiruthika M, Mrs.Smita D, Mrs Dhanashree H, "*Sharing Internet Connection Through Wi-Fi Network*",In the proceedings of **International Conference** on "Advances in Computing Communication and Control 09" ICAC3'09 Fr. C.R.C.E. Bandra, Mumbai on 23rd and 24th January 2009. Indexed in ACM digital Library - Pages 659–663 https://doi.org/10.1145/1523103. 1523237

2. Mrs. Kiruthika M, Mrs.Smita D, Mrs Dhanashree H, "*Analysis of basic components and design required to setup a network wired/wireless*",in the proceedings of **International Conference** On Computer and Network Technology organised by ICCNT'09 Chennai.On24th-26th July 2009 . https://doi.org/10.1142/9789814289771_0046 -Indexed in world scientific open Access.

3. Mrs. Kiruthika M, Mrs. Sukhwant Kaur and Mrs. K.V. Santhilata, "*Metrics for Web Application Development*",In the proceedings of **International Conference** on Software Technology and Engineering ICSTE '09, organised by IACSIT Chennai. On 24th-26th July 2009.
https://doi.org/10.1142/9789814289986_0052-Indexed in world scientific open Access.

4. Mrs. Kiruthika M, "Design of Secure Network using Firewall",in the proceedings of 4th **International Conference** on Quality,Reliability and Infocon Technology Dec 18-20 , 2009.

5. Mrs. Kiruthika M, Mrs.Smita D ,"*An Application Of Information Retrieval In P2P Networks Using Sockets And Metadata*",Special Issue for the **International conference** on computing, communications and Information Technology (CCITA-2010) in the Ubiuitons Computing and Communication Journal (UBICC) at VLJBCET,Coimbatore held on 21-23 Jan 2010. https://www.ubicc.org/journal_detail.aspx?id=37.

6. Mrs. Kiruthika M, Mrs. Dipa Dixit, "Mining Access Patterns From Weblogs Using Datamining *Techniques*",in the proceedings of **InterNational Conference** ICCIA 2010 at Sandip Institute of Technology and Research Center,Nashik on 3-5 March 2010. https://www.researchgate.net/ publication/50315327_MINING_ACCESS_ PATTERNS_USING_CLASSIFICATION.

7. Mrs. Kiruthika M, Dipa Dixit, Pranay Suresh, Rishi M ,"*An approach to convert unprocessed weblogs to database tables* ", in the proceedings of **InterNational Conference** ISCET 2010 at RMIT Institute of Engg. and Technology , Punjab on 19-20 March 2010. https://docplayer.net/ 11227169-An-approach-to-convert-unprocessed-weblogs-to-database-table.html

8. Mrs. Kiruthika M, Mrs Dhanashree H ,"To Secure & *Manage a Network using Router OS*",**International Conference** on Relibility InfoCom Tecnology& Optimization ICRITO 2010 held on Nov 1-3 2010,Faridabad

9. Mrs. Kiruthika M , Mrs. Dakshayani G, Mrs. Kavita S, Mr. Rahul J, "*Learning System for Indian Languages- Marathi*", in the **International Conference** on " Language Developed & Computing method(ICLDCM-2010) in Karunya University ,Coimatore, Tamilnadu, which will be held in Dec 2-3 2010

10. Mrs. Kiruthika M , Mrs. Dipa Dixit, Mr. Meraj Ahmed Khan, Mr. Viraaj Navalekar, Mr. Siddharth Loke , "*Video clustering*", in the proceedings of **International Conference** on Global Computing 2011 held at Sangamner on March 3-4, 2011

11. Mrs. Kiruthika M , Mrs. Dakshayani G, Mrs. Kavita S, Mrs. Dhanashree H, Mrs. Swati K, "*Analysis of wireless optical broad band access N/w*", in the proceedings of **International Conference** on Global Computing 2011 held at Sangamner on March 3-4,2011

12. M.Kiruthika,Bindu.S "Performance Analysis of a Distance Relay for Zone Identification" 2nd IEEE International conference on Power Electronics, Intelligent Control and Energy systems (ICPEICES) held on Oct.22-24, 2018.

13. M.Kiruthika,Bindu.S "Fault Identification and Zone Protection in Transmission Line Using Phasor Measurement Units" IEEE International conferenceon New Trends in Engineering & Technology(ICNTET) held on Sept 7-8 2018.

14. Sujit Amin 1 , Nikita Jayakar 2 , Sonia Sunny 3 , Pheba Babu 4 , M.Kiruthika 5 , Ambarish Gurjar,'Web Application for Screening Resume' 3rd Biennial International conference on Nascent Technologies in Engineering(ICNTE) held on Jan -5 2019.

15. Abhishek D Chalwadi, Kiruthika M, Bindu S , "Phasor Measurement Units based Impedance Relay: A Case Study" 2019 4th International Conference on Recent Trends

on Electronics, Information , Communication and Technology RTEICT-2019,SVCE Bengaluru, May 17-18 2019 .

16. Abhishek D Chalwadi, Kiruthika M, Bindu S , "PMU and DVR based Power System Monitoring, Controlling and Voltage Sag Compensation" in the proceedings of International Conference on Automation, Communication and Computing 2020 (ICACC-2020) Article no: 01006, Volume 32, 2020. Indexing – ITM Web of Conferences (Matec Web of Conferences - Open Access) DOI: https://doi.org/10.1051/itmconf/20203201006

17. Salome Palani, Arya Kulkarni, Abishai Kochara, Kiruthika M,"Detection of Thoracic Diseases using Deep Learning"in the proceedings of International Conference on Automation, Communication and Computing 2020 (ICACC-2020), RAIT, Nerul, Navi Mumbai, India, June 27-28, 2020. Indexing – ITM Web of Conferences (Matec Web Of Conferences -Open Access) -Article no: 03024, Volume 32, 2020.

18. Omkar Jadhav, Anish Patil, Jeffy Sam and Kiruthika M , "Virtual Dressing using Augmented Reality" in the proceedings of International Conference on Automation, Communication and Computing (ICACC-2021), RAIT, Nerul, Navi Mumbai, India, July 14-15, 2021. Indexing – ITM Web of Conferences (Matec Web Of Conferences -Open Access).

19. Soumya Haridas, Shalu Saroj, Sairam Tushar Maddala, and M. Kiruthika,"LegalLedger – Blockchain In Judicial System" in the proceedings of 3rd International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2021) , by RVS College of Engineering and Technology, Coimbatore, India, August 20-21. Will be published as a book chapter in Springer Lecture Notes in Data Engineering and Communication Technologies.

20. Antony Bush, Selva Leander, Alroy Serrao, Shalom Jose and M. Kiruthika, "Mobile Application for Monitoring the Performance of Transmission Line" in the proceedings of 8th International Conference on Nanoelectronics, Computational Intelligence & Communication Systems (NCCS-2022) on 17-18th Dec-2022 at ARTTC, Hazaribagh Road, Ranchi organized by ISVE,INDIAN SOCIETY FOR VLSI EDUCATION .Will be published as a book chapter in Springer Lecture Notes .

21. Elisha Gras, Kington Churchill, Rosmi George, Dr. Kiruthika M , " A Recommendation System for Decentralized Autonomous Organization " in the proceedings of IEEE sponsored OPJU INTERNATIONAL TECHNOLOGY CONFERENCE On Emerging Technologies for Sustainable Development (8-10 Feb, 2023) (OTCON 2.0) held at OP Jindal Institute of Technology, Raigarh, Chhattisgarh, India. https://ieeexplore.ieee.org/document/10113941. DOI: 10.1109/OTCON56053.2023.10113941

22. Seadon Kinny, Bijith B Maman, Walter Mhapsekar, Sarthak Waghmare, Dr. Kiruthika M, "Analysis of DDoS Attacks using Datamining" in the proceedings of 2023 6th International Conference on Advances in Science and Technology (ICAST), KJSIT, Sion Mumbai .India, 08-09 December 2023. Indexing – IEEE Explore.

International Journals :

1. Mrs. Kiruthika M, Mrs. Smita Dange *"An Application Of Information Retrieval In P2P Networks Using Sockets And Metadata"* in the proceedings of CCITA-2010 at VLJBCET, Coimbatore held on 21-23 Jan 2010.

2. Mrs. Kiruthika M , "Detection *of Duplicate and Near Duplicate Web Documents",* in the International Journal of Multidisciplinary Research & Advance in Engineering (IJMRAE) Volume 2, no.II July 2010,ISSN 0975-7074

3. Mrs. Kiruthika M , Mrs. Dipa Dixit, *"Mining Access Patterns using Classification"*, in the International Journal of Engineering Science &Technology(IJEST),Vol 2(7) July 2010,ISSN 2895-2902

4. Mrs. Kiruthika M , Mrs. Dipa Dixit, *"Mining Access Patterns using Clustering"*, in the International Journal of Computer Applications(IJCA)Volume 4,no.11 August 2010.ISSN o975-8887

5. Mrs. Kiruthika M , Mrs. Dipa Dixit, *,"Preprocessing of Web logs"*,in the International Journal of Computer Science & Engineering(IJCSE) Vol 02, No.07 October 2010,ISSN-2447-2452.https://docplayer.net/16238504-Preprocessing-of-web-logs.html

6. Mrs. Kiruthika M , Mrs. Smita Dange, Mrs. Swati K. Mr. Girish B, Ms. Trupti G, Mr. Sushant R, *"Real Estate Application Using Spatial Database"*,International Journal of Advances in Engineering and Technology(IJAET),Nov-2011 ,ISSN : 2231-1963, Vol.1, Issue-5

7. M Kiruthika, R Jadhav, D Dixit, J Rashmi, A Nehete, T Khodkar, *"Pattern Discovery Using Association Rules"*,in the International Journal of Advanced Computer Science and Applications(IJACSA), Vol-2,Issue -12, ISSN No.:2156-5570, 2011

8. Mrs. Kiruthika M, *"Ontology for Modeling   E-Citizenship"*, Journal of "Communication and Computer" Vol.9, No.1, Jan-2012

9. Mrs. Kiruthika M , Mrs. Smita Dange, Mrs. Sandhya Pati, *"Title Based Duplicate Detection of Web Documents"*, International Journal of Electronics and Computer Science Engineering(IJECSE),ISSN No-2277-1956,vol. 1, No. 4,Oct'2012

10. Mrs. Kiruthika M ,Mr. Vishal Patil, Mr. Parag Oke, Ms. Mahalakshmy Krishnamoorthy, *"A Statistical Approach for Document Summarization"*, in the International Journal of Advanced Computer Technology(IJACT),ISSN No-2319-7900,Vol.2,No.2,April 2013.

11. Mrs. Kiruthika M , Mr. Rohit Jha, Ms. Alfy Samuel, Ms.Ashmee Pawar, *"A Domain-Specific Language for Discrete Mathematics"*, in the International Journal of Computer Applications (IJACT) (0975 – 8887) Volume 70– No.15, May 2013

12. Mrs. Kiruthika M , Mr. Vivek Kartheek, Mr. Srikant Shetty, Mr. Roshan Kadam, *"Software Defined Networking –A Networking Paradigm to meet the emerging trends"*, in the International Journal of Advanced Researched in Computer And Communication Engineering (IJARCCE)Volume 3 ,Issue 2 February 2014.

13. Mrs. Kiruthika M , Mr. Nitin Cyriac, Mr. Aditya Mandhare, Ms. Soniya Nemade, "*Web Personalization*",in the International Journal of Computer Technology and Applications (IJCTA) Volume 5 ,Issue1,January –February 2014

14. Mrs. Kiruthika M , Mr. Nitin Cyriac, Mr. Aditya Mandhare, Ms. Soniya Nemade ,"*Recommendation tool Using Collaborative Filtering*",in the International Journal of Advanced Researched in Computer And Communication Engineering (IJARCCE)Volume 3 ,Issue 6 June 2014.Page no 7052-7056

15. Mrs. Kiruthika M , Mrs. Dakshayani G, Mrs. Kavita S, "*Analysis of Virtualization Tools and Techniques*",in the International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE) , Volume 4, Issue 3, March 2015 ISSN: 2277 -1021. Pg No : 556-560

16. Mrs. Kiruthika M, Shweta Tripathi, Mritunjay Ojha, Kavita S, "*Parameter Monitoring for Precision Agriculture*",in the International Journal of Research and Scientific Innovation (IJRSI), ISSN 2321-2705, Volume II Issue X , Oct-2015, Pg. No. 79-81

17. Mrs. Kiruthika M, Sanjana Woonna, Priyanka Giri," *Sentiment Analysis of Twitter Data*" in the International Journal of Innovations in Engineering and Technology, Impact Factor - 0.672, Volume 6 Issue 4 April 2016 .Page No:264 -273 Index :Thomson Reuters. ISSN 2319-1058.

18. Sachin George, Vanessa Almond, Elizabeth James , Shivom Vishwakarma , M. Kiruthika Analysis of Electrical Power Consumption using Smart Meter Data International Research Journal of Engineering and Technology (IRJET) Volume 5, Issue 1 , January 2018 , ISSN 2395-0056

19. Sujit Amin, Nikita Jayakar, M. Kiruthika, Ambarish Gurjar ,"Best Fit Resume Predictor", International Research Journal of Engineering and Technology (IRJET) Volume 6, Issue 8, S.NO:159, e-ISSN: 2395-0056.

20. M.Kiruthika, Bindu S "Classification of Electrical Power System Conditions with Convolutional Neural Networks" Journal of Engineering, Technology & Applied Science Research (ETASR) .Vol. 10 No. 3 (2020): June, 2020. Pages: 5759-5768. (Open Access-Web of sciences)

21. M.Kiruthika, Bindu S "Secured Protection of Transmission Line by Distance Relay using Data Mining Approach" Indonesian Journal of Electrical Engineering and Computer Science. Vol. 23 No.1: July, 2021. pp: 1-13 Scopus Indexed/ UGC CARE List Group II. (Open Access) (CiteScore 2019: 1.4, SNIP 2019: 0.649, SJR 2019: 0.21) ISSN: 2502-4752, DOI: 10.11591/ijeecs.v23.i1.pp1-13

22. M.Kiruthika, Jitin John Charivukalayil, Shreya Chavan, Jerin John Mathew, Christopher Cardoza "Enhancement of detection mechanisms for HTTP based DoS/DDoS attacks" ADBU-Journal of Engineering Technology. AJET, ISSN: 2348-7305, Volume 12, Issue1, June, 2023, 0120103421(8PP). Indexing- UGC CARE List (Open Access)-Group I. https://journals.dbuniversity.ac.in/ojs/index.php/AJET/article/view/3421

23. M. Kiruthika and Bindu S, "A Security Enabled Real time Fault Detection and Classification of Power System Conditions", International Journal of Advanced Technology and Engineering Exploration. 2023; 10(107):1260-1278. DOI:10.19101/IJATEE.2022.10100425. Scopus Indexed/ UGC CARE List Group II. (Open Access) https://www.scopus.com/authid/detail.uri?authorId=57506201300

Grants Received and Patent Filed:

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co-investivator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government/non-Government)
Navigation App for the Visually Impaired	Mrs. Sandhya Pati (PI) Mrs. Kiruthika M (CI)	Computer Engg.	2017	Rs. 20,000	1 Year	University of Mumbai	
WSN Based Environmental Parameter Monitoring for Precision Agriculture	Mrs. Kiruthika M (PI) Mrs. Shweta Tripathi (CI)	Computer Engg.	2015	Rs. 40,000	1 Year	University of Mumbai	
Ms. Kiruthika M. Ms. Rakhi Kalantri Ms. Shagufta Rajguru Automatic Lip-Reading and Sentence Predicting Device 362440-001 12/04/2022 10/06/2022							