

## Personal Profile

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**Dr. Firos A**  
**Assistant Professor, Department of Computer Science and Engineering**  
**Rajiv Gandhi University, Rono Hills, Doimukh**  
**Arunachal Pradesh-791112**

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**Phone No.:** +91 9402212509

## Educational Profile

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| Ph.D.(CSE) | Rajiv Gandhi (Central) University, Itanagar, Arunachal Pradesh; 2020<br>Supervisor: Prof. Utpal Bhattacharjee                               |
| M.E (CSE)  | Anna University, Chennai, Tamil Nadu; 2007<br>Subject: Computer Science and Engineering<br>Specialization: Computer Science and Engineering |
| M.Sc.(CS)  | University of Calicut, Calicut, Kerala; 2005<br>Subject: Computer Science   |
| B.Sc.(CS)  | Mahatma Gandhi University, Kottayam, Kerala; 2002<br>Subject: Computer Science  |
| MBA        | Tamil Nadu University, Chennai, Tamil Nadu; 2013<br>Subject: Human Resource management  |

## Professional Experience

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Assistant Professor, Department of Computer Science and Engineering, Rajiv Gandhi University, Arunachal Pradesh, India

February, 2010-till date

## **Administrative Experience**

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Member , Internal Quality Assurance Cell (IQAC) team Rajiv Gandhi (Central) University, Itanagar, Arunachal Pradesh April, 2019-till date

## **Awards & Honours**

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1. Qualified GATE in 2005.

## **Membership of Professional Bodies**

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1. **Member of Institute of Engineers (India)** (Membership Number: M-1593573 )

## **Research Interests**

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- Natural Language Processing
- Data Science
- Big data Analytics

## **Research Publications**

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1. A. Firos and U. Bhattacharjee, "Intelligible semantic level speech compression algorithm by preserving emotional content," 2017 International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS), Chennai, 2017, pp. 3041-3044, doi: 10.1109/ICECDS.2017.8390013.[ SCOPUS INDEXED]
2. A. Firos and S. Khanum, "Efficient distribution of virtual machines using Honey bee windowing in cloud computing," 2017 International Conference on Computing, Communication and Automation (ICCCA), Greater Noida, 2017, pp. 1292-1295, doi: 10.1109/CCAA.2017.8229996.[ SCOPUS INDEXED]
3. S. Khanum and A. Firos, "Text independent gender identification in noisy environmental conditions," 2017 International Conference on Computing, Communication and Automation (ICCCA), Greater Noida, 2017, pp. 63-66, doi: 10.1109/CCAA.2017.8229772. [ SCOPUS INDEXED]
4. S. Khanum and A. Firos, "A novel speaker identification system using feed forward neural networks," 2017 International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS), Chennai, 2017, pp. 3045-3047, doi: 10.1109/ICECDS.2017.8390014. [ SCOPUS INDEXED]
5. A. Firos and U. Bhattacharjee, " Semantic Level Speech Coding System By Preserving Prosodic Contents", International Journal of Management, Technology And Engineering Volume 9, Issue 6, JUNE/2019, Page No: 3387-3392,doi: 16.10089.IJMTE.2019.V9I6.19.28884, ISSN NO : 2249-7455.[ UGC : 45550]
6. A. Firos and U. Bhattacharjee, " Semantic Based Emotional Voice Coding Using Feed Forward Artificial Neural Network", International Journal of Management, Technology And Engineering Volume 9, Issue 6, JUNE/2019, Page No: 3380-3386, doi: 16.10089.IJMTE.2019.V9I6.19.28884, ISSN NO : 2249-7455.[ UGC : 45550]
7. A. Firos and U. Bhattacharjee, " A low bit rate speech coding and its synthesis based on Hidden Markov Models", International Journal of Research in

electronics and Computer Engineering (IJRECE), VOL. 6 ISSUE 2 APR.-JUNE 2018, Page No: 1179-1183, ISSN: 2393-9028 (PRINT) | ISSN: 2348-2281 (ONLINE).[ UGC : 44816]

8. A. Firos and U. Bhattacharjee, " Semantic Speech Coding of Emotional Speech Using fuzzy-k mean Clustering", International Journal of Innovations & Advancement in Computer Science Volume 6, Issue 12, 2017, ISSN: 2347 – 8616.
9. A. Firos and U. Bhattacharjee, " Impact of Semantic Coding of Emotional Speech on Speech Coding Performance", International Journal of Computer Trends and Technology (IJCTT), Volume-57 issue -1, 2018, ISSN: 2231-2803.
10. Marpe Sora ,P.H Talukdhar, ,Bomken Kamdak Bam and Firose A, "Acoustic Representation of and adi Vowels", International Journal of Computer Science (IJCSI ) ,Issues, Vol. 10, Issue 2, No 1, March 2013 ,ISSN (Print): 1694-0814 | ISSN (Online): 1694-0784.
11. Ahmed, Apil Uddin & Rahman, Saifur & Abdul, Firos. (2020). On Bipolar Fuzzy Subsemimodules With Respects To Bipolar Fuzzy Connectives. Journal of Advanced Research in Dynamical and Control Systems. 12. 14-23. 10.5373/JARDCS/V12SP2/SP20201002. [ SCOPUS INDEXED]
12. Umbrey, Gete & Rahman, Saifur & Saikia, Helen & Abdul, Firos. (2020). An Approach Towards Rank And Nullity Of Algebraic Expressions Of Graphs. 10.5373/JARDCS/V12SP2/SP20201040. [ SCOPUS INDEXED]

## **Patent**

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- 1.

## **Book/Book Chapter published**

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1. Tracing Attackers with Trust-Based Deterministic Packet Marking , Scholars' Press, 2020, ISBN no: 978-613-8-94576-5
2. e-Enabled Performance Management System For Officers ,Scholars' Press, 2020, ISBN 978-613-8-94638-0

## **Research guidance**

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### **Ph.D scholar**

- 1.

Full name of the Scholar: Ms. Rubi Sharma

Topic of research: SPEECH ENHANCEMENT WITH DEEP LEARNING

Year of PhD degree: Ongoing

- 2.

Full name of the Scholar: Mr. Amit Kumar Mandal

Topic of research: Media Memorability Prediction Using Deep Learning

Year of PhD degree: Ongoing

### **Course/Conference/Workshop organized**

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1. **Organizing Convener: Workshop on Machine learning and Deep learning using MATLAB** held on 19 May 2020, jointly organized by Department of Mathematics and Department of Computer Science and Engineering, Rajiv Gandhi University, Doimukh.
2. **Organizing Convener: Five days Faculty development program on Basics of R Programming** held from 29 April 2020 to 03 May 2020, jointly organized by IIT Bombay and Department of Computer Science and Engineering, Rajiv Gandhi University, Doimukh.
3. **Organizing Convener: First National Conference on Recent Trends in Information Technology (NCIT 2015)** held on September 15-16, 2015, organised by Department of Computer Science and Engineering, Rajiv Gandhi University, Doimukh.
4. **Organizing Secretary: Two-day workshop on ‘Advances in Electronics and Communication’** held on 14-15 March 2017, jointly organized by Department of Electronics and Communication Engineering and Department of Computer Science and Engineering, Rajiv Gandhi University, Doimukh

### **Course/Conference/Workshop etc. attended**

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1. Presented the paper titled “A Survey on Design of secure Mobile Cloudlet Mesh Network” , National Conference Innovations in Computation, Communication, Cybernetics and to combat current challenges (BITCON2020), 20 November 2020, Bhilai Institute of Technology, Durg
2. Presented the paper titled “A Survey on Gender Detection Systems for Building a Robust and Fast System to Check the Authenticity of Speaker”, National Conference Innovations in Computation, Communication, Cybernetics and to combat current challenges (BITCON2020), 20 November 2020, Bhilai Institute of Technology, Durg
3. Presented the paper titled “A Review on Applications of Activity Recognition Systems for Building a Robust Surveillance System with the Help of Convolutional Neural Networks” , National Conference Innovations in Computation, Communication, Cybernetics and to combat current challenges (BITCON2020), 20 November 2020, Bhilai Institute of Technology, Durg
4. Presented the paper titled “Text independent gender identification in noisy environmental conditions” ,International conference on computing communication and automation (ICCCA2017), 5-6 May 2017, Galgotias University ,Uttar Pradesh
5. Presented the paper titled “Efficient distribution of virtual machines using Honey bee windowing in cloud computing”, International conference on computing communication and automation (ICCCA2017),5-6 May 2017,Galgotias University ,Uttar Pradesh
6. Presented the paper titled “A novel speaker identification system using feed forward neural networks”, International conference on energy communication

data analytics and soft computing (ICECDS 2017), 1-2 August 2017, SKR Engineering College, Poonamalle, Tamil Nadu

7. Presented the paper titled "Intelligible semantic level speech compression algorithm by preserving emotional content", International conference on energy communication data analytics and soft computing (ICECDS 2017), 1-2 August 2017, SKR Engineering College, Poonamalle, Tamil Nadu
8. Presented the paper titled "Semantic speech coding of emotional speech coding using fuzzy k-mean clustering", 1st IEEE international conference on advancements and innovations in Engineering, technology & Management (ICAIETM2017), 28-29 December 2017, Joginpally B. R Engineering college, Hyderabad
9. Presented the paper titled "A low bit rate speech coding and its synthesis based on Hidden Markov Model", 3rd International conference on New frontiers of Engineering, Science, Management and Humanities (ICNFESMH-2018), 17 June 2018, Maharashtra Chamber of commerce industries and Agriculture, Pune
10. Presented the paper titled "Impact of Semantic Coding of Emotional Speech on Speech Coding Performance", 3rd International conference on New frontiers of Engineering, Science, Management and Humanities (ICNFESMH-2018), 17 June 2018, Maharashtra Chamber of commerce industries and Agriculture, Pune
11. Presented the paper titled "Sentiment Analysis: Approaches and open issues", National conference on mathematical sciences & Applications in science & Engineering (MSASET-2019), 25-26 March 2019, Department of Mathematics, Rajiv Gandhi University -791112
12. Presented the paper titled "Semantic Level Speech Coding System By Preserving Prosodic Contents", 2nd international conference on innovations in computing, automation and intelligent information systems (ICAIS2019), 29-30 May 2019, MVJ College of Engineering, Bangalore
13. Presented the paper titled "Semantic Based Emotional Voice Coding Using Feed Forward Artificial Neural Network", 2nd international conference on innovations in computing, automation and intelligent information systems (ICAIS2019), 29-30 May 2019, MVJ College of Engineering, Bangalore
14. Presented the paper titled "Honey bee Windowing Method for Efficient Distribution of Virtual Machines for Cloud Computing", ICHPC '2014- the fourth International Conference on Advanced Computing And Communication Techniques For High Performance Applications, June 19-21, 2014, FISAT, Cochin

### **Sponsored Project**

| Title of the project | Funding agency | Year of sanction | Role |
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