

# Dr. V. Subba Ramaiah

## Assistant Professor



**Education Qualifications:** Doctor of Philosophy  
(Computer Science & Engineering)

**Specialization:** Speech processing Using Machine Learning

### ADDRESS:

- D- Block -Room No 109

### JNTUH ID:

31150402-125941

### EMAIL:

vsubbaramaiah\_cse@mgit.ac.in

### DATE OF JOINING:

17-03-2003

### EXPERIENCE - 19 Years

- Teaching - 19
- Research -5

### SUMMARY:

- Publications - 28
- Conferences - 7
- Patents - 5
- Books - 2

### EVENTS:

- Organized - 6
- Attended - 31

### Membership of Professional Bodies:

1. Fellow Member of IETE F-502476.
2. Life Member of the Institution of Engineers (IEI) M-1476475.
3. Life Member of International Association of Engineers 249384
4. Fellow Member of IAEME FM10130

### Responsibilities Held at Institution Level:

1. Deputy Director, IT Infrastructure & Planning from 18-01-2022 to till date.
2. Member, Student Monitoring Committee from 2021 to till date.
3. Nirvana committee Member
4. Student bus in charge from 2020 to till date
5. Member, Anti ragging committee from 3.1.2021 to till date.

### Responsibilities Held at Department Level:

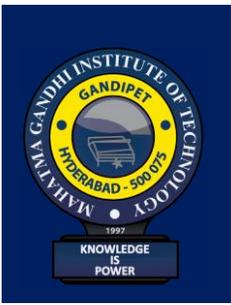
1. NISP Coordinator
2. Upkeep Committee Coordinator
3. NBA Coordinator
4. Member, NAAC from 2010 to till date.
5. Member, IQAC Committee from 2017 to till date.
6. Mini & Major Project coordinator from 2010 to till date.

### Courses Handled at Under Graduate /Post Graduate Level:

- **UG:** Formal Languages & Automata Theory, Computer Graphics, Discrete Mathematics, Object oriented analysis & Design, Machine Learning, .
- **PG:** Distributed Computing, Cloud Computing, Artificial Intelligence.

### Publications:

1. V. S. N. Kumar Devaraju, V. Subba Ramaiah, Sirasani Srinivasa Rao, "Analysis of an Effective CBIR Image Extraction using P2PN Networks", Turkish Journal of Computer and Mathematics Education, Vol.12, No.11, pp. 4610-4614, May 2021. ISSN:1309-4653 (Scopus)
2. V. Subba Ramaiah, A. Ratna Raju, "A real-time High-Quality image snow removing using Adaptive Matched filter", Turkish Journal of Computer and Mathematics Education, Vol.12, No.10, pp.4741-4749, April 2021. ISSN:1309-4653 (Scopus)
3. V. S. N. Kumar Devaraju, Sirasani Srinivasa Rao, V. Subba Ramaiah, K. Raghu, K.Saikumar, "A Real And Accurate Vegetable Seeds Classification Using Image Analysis And Fuzzy Technique", Turkish Journal of Physiotherapy and Rehabilitation, Volume 32, Issue 2, March 2021. ISSN:2651-4451 (Scopus)
4. S.Rooban, V. Subba Ramaiah, A. Ratna Raju, G. Nagi Reddy, K Saikumar, "MEMS-Based Energy Efficient Gas Metering Sensor for Smart Home Applications", Journal of Green Engineering, Volume-11, Issue-2, February



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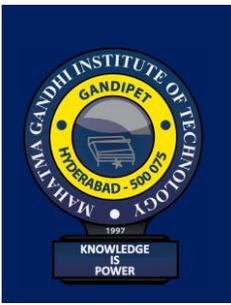
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2021. ISSN:2245-4586 (Scopus)
5. K. Raghu, Kasiprasad Mannepalli, V. Subba Ramaiah, A. Ravi Kumar, K. Sarada, "A Power Domain NOMA Multiplexing for Spectral Efficiency Improvement at Randomly Available Users", Journal of Green Engineering, Volume-11, Issue-2, February 2021. ISSN:2245-4586 (Scopus)
  6. V. Subba Ramaiah, A. Ratna Raju, Sirasani Srinivasa Rao, N. Lakshman Pratap, K. Saikumar, "A Real Time Energy Efficiency Wireless Sensors Networks Coverage and Localization for Sustainable Applications", Journal of Green Engineering, Volume-10, Issue-12, December 2020. ISSN:2245-4586 (Scopus)
  7. Dr. J. Jayabharathi, Dr. K. Loheswaran, V. Subba Ramaiah, T. Kumaravel, "Restaurant Recommendation System Using Support Vector Machine and Naive Bayes Classifier Machine Learning Algorithms", International Journal of Future Generation Communication and Networking, Vol. 13, No. 4, pp. 3426–3430, Dec. 2020. ISSN:2233-7857 (Scopus)
  8. Kasi prasad Mannepalli, V. Subba Ramaiah, K. Raghu, "Speech Forgery Detection of Framed Sentences in Audio Recordings using DTW", European Journal of Molecular & Clinical Medicine, Volume 07, Issue 08, 2020. ISSN:2515-8260 (Scopus)
  9. V. Subba Ramaiah, K. Raghu, K. Mannepalli "A stuttered speech self-repair system using mel-filter and lasso regression machine learning technique" European Journal of Molecular and Clinical Medicine, Volume 7, Issue 4, Pages 1254-1263, September 2020. ISSN:2515-8260 (Scopus)
  10. V. Subba Ramaiah, D. Murali, K. Loheswaran, "Cuckoo Optimized Long Short-Term Memory for Continuous Speaker Identification", Journal of Xidian University, Volume-14, Issue-6, June 2020. ISSN:1001-2400 (Scopus)
  11. V. Subba Ramaiah, S. Srinivasa Rao, V. S. N. Kumar Devaraju, "Speaker Diarization based on Black-Hole Entropy Fuzzy Clustering using Cepstral Features", International Journal of Engineering and Advanced Technology, Volume-9, Issue-4, April 2020. ISSN:2249 – 8958 (Scopus)
  12. S. Srinivasa Rao, V. Subba Ramaiah, K. Raghu, "Energy Efficient Routing in IoT Based on Chronological Atom Search Optimization", International Journal of Innovative Technology and Exploring Engineering, Volume-9, Issue-4, February 2020. ISSN:2278-3075 (Scopus)
  13. V. Subba Ramaiah and R. Rajeswara Rao, "Speaker Diarization System using HXLPS and deep neural network", Alexandria Engineering Journal (AEJ), ELSEVIER, Vol. 57, issue 1, Jan. 2017. ISSN:1110-0168 (Scopus)
  14. V. Subba Ramaiah and R. Rajeswara Rao, "Speaker Diarization System Using MKMFCC Parameterization and WLI-Fuzzy Clustering", International Journal of Speech Technology (IJST), Springer, Vol. 19, Issue 4, pp. 945–963, Dec. 2016. ISSN:13812416 (Scopus)
  15. V. Subba Ramaiah and R. Rajeswara Rao, "A Novel Approach for Speaker Diarization System using TMFCC Parameterization and Lion Optimization", Journal of Central South University (JCSU), Springer, Vol. 24, issue 11, Sept. 2016. ISSN:2095-2899 (Scopus)
  16. Madireddi Lohith, and V. Subba Ramaiah, "Visualized rating method to pulling out higher assurance relations", IJRRECS, Vol. 4, Issue 9, Sept. 2016. ISSN:2321-5461 (peer-reviewed)
  17. V. Subba Ramaiah and R. Rajeswara Rao, "Slope at zero crossings (zc) of speech signal for multi-speaker activity detection", International Journal on Cybernetics & Informatics (IJCI), Vol. 5, No. 4, August 2016. ISSN:2277-548X (peer-reviewed)
  18. V. Subba Ramaiah and R. Rajeswara Rao, "Automatic text-independent speaker tracking system using feed-forward neural networks (FFNN)", International Journal of Computer Engineering and Technology (IJCET), Volume 5, Issue 1, pp. 11-20, January 2014. ISSN:2347-2820 (UGC)

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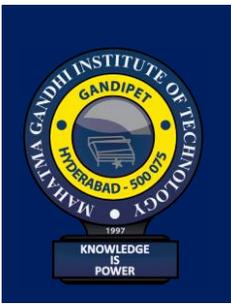
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- Attended - 31

19. Yashwanth Byalla, and V. Subba Ramaiah “Editing captured key framed animation based on Motion Warping”, International Journal of Electrical, Electronics and Computer Systems (IJEECS), Vol. 2, Issue 4, pp. 6-10, 2014. ISSN:2347-2820 (UGC)
20. SaiSujith Reddy Mankala, Sainath Reddy Bojja, and V. Subba Ramaiah “Automatic speech processing using HTK for Telugu language”, International Journal of Advances in Engineering & Technology (IJAET), Vol. 6, Issue 6, pp. 2572-2578, Jan. 2014. ISSN:22311963 (UGC)
21. V. Subba Ramaiah and R. Rajeswara Rao, “Automatic text-independent speaker tracking system using feed-forward neural networks (FFNN)”, International Journal of Computer Engineering and Technology (IJCET), Volume 5, Issue 1, pp. 11-20, January 2014. ISSN:0976–6367 (UGC)
22. V. Subba Ramaiah and R. Rajeswara Rao, “A novel approach for automatic text-independent speaker tracking system using source feature”, International Journal of Reviews On Recent Electronics and Computer Science (IJRRECS), Vo. 1, Issue 8, pp. 1805-1810, December 2013. ISSN:2321-5461(UGC)
23. Abhishek Reddy Chinni, Sreepada Sai RaviTejabhishek, and V. Subba Ramaiah, “Ethernet Communication Interface Testing Tool”, International Journal of Science Engineering and Technology Research (IJSETR), Volume 2, Issue 11, pp. 2074-2077, Nov. 2013. ISSN:2278–7798(peer-reviewed)
24. V. Subba Ramaiah and R. Rajeswara Rao, “Modeling Speaker Specific Features for Automatic Text Independent Speaker Tracking System using Support Vector Machines (SVMs)”, International Journal of Engineering Sciences Paradigms and Researches (IJESPR), Vol. 05, Issue 01, pp. 18-26, June 2013. ISSN:2319-6564 (UGC)
25. A.Mamatha, V.Subba Ramaiah, "A novel approach for automatic text-independent speaker tracking system using source feature", IJRRECS, Vol. 1, Issue 8, Dec. 2013. ISSN:2321-5461(UGC)
26. V. Subba Ramaiah and R. Rajeswara Rao, “Content Based Image Retrieval System Consume Semantic Gap”, International Journal of Computer Science and Information Technologies (IJCSIT), Vol. 3 (5), pp. 5231-5235, Oct. 2012. ISSN:0975-9646 (peer-reviewed)
27. Dudekula Yasmine and V. Subba Ramaiah “Mobile ad-hoc networks providing efficient multicasting techniques”, International Journal of Advanced Computer and Mathematical Sciences, Vol. 3, Issue 3, pp. 373-378, Sept. 2012. ISSN:2230-9624(peer-reviewed)
28. V. Subba Ramaiah and R. Rajeswara Rao, “Analysis and proposing a robust source features for automatic text-independent speaker indexing system”, CSELJ, Vol.2, No.4, pp. 1-8, August 2012. ISSN:2231-329X(peer-reviewed)

**Conferences:**

1. V Subba Ramaiah, et. al “Teaching and learning based 5G cognitive radio application for future application”, International Conference on Computational Intelligence and Knowledge Economy (ICCIKE), Coimbatore, Tamil Nadu, 17<sup>th</sup> – 18<sup>th</sup> March 2021.
2. V.Subba Ramaiah and R.Rajeswara Rao, “Slope at zero crossings (zc) of speech signal for multi-speaker activity detection”, International Conference on Electronics and Communication Engineering (ICECE-16), JNTUK-UCEV, Vizianagaram, 29<sup>th</sup> – 30<sup>th</sup> July. 2016.
3. V.Subba Ramaiah and R.Rajeswara Rao, “Multi-speaker activity detection using zero crossing rate”, International Conference on Communication and Signal Processing (ICCSP), Adhiparasakthi Engineering College, Chennai, 6 – 8<sup>th</sup> Apr. 2016. (Published in IEEE Explore).



4. V.Subba Ramaiah and R.Rajeswara Rao, "Automatic Text-independent Speaker tracking System using Gaussian mixture models(GMM's)", International Conference on ICICSE-14, GNITC, Hyderabad, August 8<sup>th</sup>–9<sup>th</sup>, 2014.
5. V.Subba Ramaiah and R.Rajeswara Rao, "Automatic Text-independent Speaker Indexing System using Hopfield Neural Networks (HNN)", National Conference on Advanced Computing and Pattern Recognition (ACPR-14), JNTU-Jagityal, November, 2013.
6. V.Subba Ramaiah and R.Rajeswara Rao, "Modeling Prosodic features for Automatic Text-Independent Speaker Indexing System using Support vector machine (SVMs)", National Conference on Recent Trends In Information Technology-2013, 23<sup>rd</sup> - 24<sup>th</sup> CBIT, Hyderabad, March 2013.
7. V.Subba Ramaiah and R.Rajeswara Rao, "Exploring a New Set of Source features for Automatic Text-Independent Speaker Indexing System", AIRES-2012, June-30, Andhra University, Vizag.

#### **Patents:**

1. Patent on "IOT Based on Wireless Sensors in Agriculture and Farming" was published on 15.10.2021; No: 202141045598 A
2. Patent on "A Novel Method for Identifying distributed denial-of-service attack and differentiating from various Flash- Events" was published on 15.10.2021; No: 202141045556 A
3. Patent on "Image Processing Technique for Surface Crack Detection in Buildings" was published on 24.09.2021; No: 202141036294 A
4. Patent on "Method and System for real-time decision-based carrier tracking for software defined radios" was published on 22-04-2021; No: 2021102150
5. Patent on "Sleep Apnea detection method for in bed patients from SPO2 signal using Machine Learning" was published on 10.07.2020; No: 202041028286A

#### **No. of Books/Chapter Published with details:**

1. Published One Chapter on "A research on software engineering research in Machine learning" Handbook of Research on Innovations and applications of AI, IoT, and Cognitive Technologies, IGI Global, 2021.
2. Published a book on "Cloud computing and Virtualization", BS publication, ISBN:978-93-83635-04-7, Oct. 2013 to till date.

#### **Events Organized:**

##### **Conferences:**

1. National Conference on Knowledge Engineering, Mahatma Gandhi Institute of Technology, Hyderabad on 29<sup>th</sup> – 30<sup>th</sup> July 2011.

##### **FDPs/STTPs:**

1. One Week online International FDP on "The Role of Linear Algebra in Machine Learning, Artificial Intelligence & Data Science", Mahatma Gandhi Institute of Technology, Hyderabad on 28.6.2020 to 2.7.2020.
2. One Week Online FDP on "Role of Machine Learning & Data Sciences in AI", Mahatma Gandhi Institute of Technology, Hyderabad on 29.11.2021 to 3.12.2021.

##### **Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lecture:**

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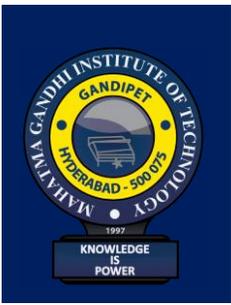
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3. One day online Virtual Power Seminar on Artificial Intelligence conducted by ICTAcademy, Mahatma Gandhi Institute of Technology, Hyderabad on 22.06.2021.
4. One day National Seminar on “IoT for Real world”, Mahatma Gandhi Institute of Technology, Hyderabad on 28.10.2019.
5. National Workshop on “Relevance of Vedic Mathematics to Real World Computing”, Mahatma Gandhi Institute of Technology, Hyderabad on 24.9.2019.

#### Events Attended:

#### FDPs/STTPs:

1. ATAL FDP on “Artificial Intelligence”, from 4 – 8 Jan. 2021 at Dr. Ambedkar Institute of Technology.
2. AICTE Sponsored Two-week Online FDP on “Recent trends in IoT using Embedded Systems”, from 7-19 Dec. 2020 at MGIT, Hyderabad.
3. AICTE Sponsored One-week STTP on “Deep Learning Techniques for electronic health record analysis”, from 16-21 Nov. 2021 at MRECW, Hyderabad.
4. ATAL Online FDP on “Artificial Intelligence”, from 19-23 Oct. 2020 at IIT, Patna.
5. ATAL Online FDP on “Artificial Intelligence”, from 21 – 25 Sept. 2020 at Vellore Institute of Technology.
6. ATAL Online FDP on “Cloudy Technology”, from 7 – 11 Sept. 2020 at Vaagdevi College of Engineering.
7. ATAL Online FDP on “Artificial Intelligence”, from 31st Aug. – 4th Sept. 2020 at College of Engineering & Management, Kolaghat.
8. ATAL Online FDP on “Data Sciences”, from 24-28 Aug. 2020 at Tripura Institute of Technology.
9. AICTE Sponsored One-week STTP on “Emerging trends in wireless sensor networks & Applications”, from 17-22 Aug. 2020 at MRECW, Hyderabad.
10. AICTE Sponsored One-week STTP on “Predicting Analytics using Machine Learning with Python”, from 10-16 Aug. 2020 at MRECW, Hyderabad.
11. AICTE Sponsored One-week STTP on “Recent trends in wireless sensor networks & Applications”, from 3-8 Aug. 2020 at MRECW, Hyderabad.
12. AICTE Sponsored One-week STTP on “Wireless communications and Machine Learning Algorithms”, from 27th July – 1st Aug. 2020 at Vardhaman College of Engg., Hyderabad.
13. AICTE Sponsored One-week STTP on “Wireless communications Future IoT”, from 20-25 July 2020 at Vardhaman College of Engg., Hyderabad.
14. One Week National Level Online FDP on “MATLAB and its applications in Eng. Using Machine Learning & Deep Learning”, from 13-17 July 2020 at GPREC, Kurnool.
15. FDP on “Machine Learning Applications in Signal Processing”, from 4th-9th June, 2019 at NIT, Warangal.
16. FDP on “Machine Learning in Image & Computer Vision Applications”, from 24th-29th, June, 2019, at NIT, Warangal.

#### Refresher Courses/ Workshops/ Webinars/ Seminars/Guest Lecture:

1. One Week National Level Online Workshop on “Yoga - A Science of Breath and Meditation for Subtle Energy Channeling”, from 6-10 July 2020 at MGIT, Hyderabad.

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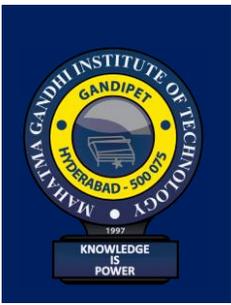
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2. one day Workshop on “Image and Speech Processing WISP-2015” organized by IIIT, Hyderabad (12th December 2015).
3. Ten day workshop on “Automatic Speech Recognition and Synthesis (ASR-14)”, organized by Research and Training Unit for Navigational Electronics and Department of ECE, Osmania University, Hyderabad, during June 13-22, 2014.
4. Three weeks Refresher Course on “Innovative Methods in Teaching and Research” at UGC-Academic Staff College, University of Hyderabad from 21.05.2014–10.06.2014.
5. Four-day Workshop on Winter School on Speech and Audio Processing (WiSSAP) at IIIT Hyderabad from January 17-20, 2014.
6. One week Research Methodology Course from 16th to 21st December 2013 at JNTUH.
7. One-week National workshop on “Cloud Computing” during 25th to 29th November 2013 at MRECW, Hyderabad.
8. Two-day National workshop on “Rough sets and Knowledge Technologies” during 10th and 11th November 2013 at JNTUH, Hyderabad.
9. Two-day National workshop on “Recent Research trends in CS & IT” during 21st and 22nd June 2013 at JNTU Vizianagaram.
10. Two-day National workshop on “Research opportunities in CS & IT” during 6th and 7th February 2013 at CBIT.
11. Two-day National workshop on “Research opportunities in CS & IT” during 27th and 28th January 2013 at CBIT.
12. One-week ISTE Faculty Development Programme on “Teaching, Learning and Research in Engineering Technology “during 30th July-3rd August 2012 by ISTE Chapter, MGIT. Hyderabad.
13. Fifteen days Software industry-oriented summer camp from 16th to 30th June 2011 at MGIT.
14. Four weeks orientation course on general teaching with ‘A’ grade (31-05-2010 to 26-06-2010) UGC Academic Staff College JNTU Hyderabad.
15. Two weeks Workshop on “Soft Computing techniques in Image Processing” organized by GNITS, Hyderabad (24-06-09 to 3-06-09).

**Online Certifications:**

Successfully completed Online Certification Courses through **Coursera:**

1. Neural Networks and Deep Learning
2. Sequence Models
3. AWS Fundamentals: Going Cloud-Native
4. Convolutional Neural Networks
5. Programming for Everybody (Getting Started with Python)Two

Successfully completed Online FDP’s through **NPTEL:**

1. Machine Learning
2. Introduction to Automata, Languages and Computation
3. Object oriented analysis and design
4. Computer Graphics