

CURRICULUM VITAE

Dr.ANIL KUMAR C

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Career Objective:

Building a career, as an integral part in a creative & the challenging environment of a leading esteemed organization which would help me acquire the information, knowledge and experience to enhance my potential while being resourceful, innovative and flexible.

Text books authored

- ❖ “ **Fundamentals of Embedded systems and IoT** ”,2023 ISBN 978-93-5757-727-4 Scientific International Publishing House.
- ❖ “**Fundamentals of IoT and Image Processing** ” , 2023ISBN 978-93-5757-459-4 Scientific International Publishing House.
- ❖ “ **Fundamentals of IoT** ”,2023 ISBN 978-93-5757-137-1. Scientific International Publishing House.
- ❖ “ **Fundamentals of Digital Circuit And Design** ” , 2022, ISBN:978-93-5625-147-2, Scientific International Publishing House.

Patents

- ❖ Two Indian Patents , one Canadian patents and an UK grant patents has been filed.
 1. Aqua skimmer for trash collection (2018). – Indian patent
 2. Python model for Electric Vehicle Energy Consumption- Canadian patent -2022

3. An online energy management system for industrial microgrid using hybrid deep learning” (2023)- Indian patent
4. Machine Learning Data Pipeline System – UK Design patent (2023)

Awards

- ❖ “academic excellence award-2021” by institute of reserarchers (InRes)-Kerala.
- ❖ “Vivekananda prize-2021 ” by institute of reserarchers (InRes)-Kerala.
- ❖ “Young Resercher award-2021” institute of reserarchers (InRes)-Kerala.
- ❖ “Award of excellence in research ” by Novel Research Academy, Pudducherry in the year 2022.

Educational Qualification:

Received Gold Medal as Best Research Scholar in 9th Annual Convocation from Jain university Bangalore.

Title of Research: *“Analysis and Synthesis of Speaker Based Vocal Tract Shape Estimation for Vowels at Different Conditions ”*

Qualification	Board/ University	Year of Passing	Percentage
Ph.D (Electronics Engg)	Jain University, Bangalore	2018	Gold Medalist
M.tech (Digital communication & networking)	VTU,Belagavi	2010	68.9
B.E (Electronics & Communication)	VTU,Belagavi	2007	58.3

PUC (PCMB)	Pre University Board	2002	56.5
SSLC	KSEEB	2000	74.72

Professional Body Membership:

- **FMIETE**
- **MIEEE**
- **MIE (I)**
- **Reviewer for Various Reputed Journals & International Conferences.**

Work experience :

Total experience:17 Years

- ❖ Currently working as Head of the Dept of ECE, RLJIT, Doddaballapur from September 2020.
- ❖ Working as Associate Professor in Dept of ECE, RLJIT, Doddaballapur from March 2019.
- ❖ Served as Asst Professor in the Dept of ECE, RLJIT, Doddaballapur from FEB 2011 to FEB 2019.
- ❖ 7 months worked as lecturer in the department of Telecommunication Engineering of SJCIT, Chickballapur from July 2010 to Jan 2011.
- ❖ 20 months worked as faculty in the department of E&C of B.G.S.Polytechnic, Chickballapur. (July 01st 2008 to march 29th 2010)
10 months worked as Faculty in the department of E&C of SJCIT, Chickballapur (Sept 10th 2007 to June 10th 2008).

International Publications:

- Published an article entitled “ **Intelligent Monitoring of Grey Oyster Mushroom Cultivation with IoT**” in Intelligent systems and applications in engineering (IJISAE) vol 12, issue 4s,pp 235-239,2024 (Scopus Indexed).
- Published an article entitled “ **Intelligent Filtering Techniques for Reducing Various Noise in Image of Mango Leaves**” in Intelligent systems and applications in engineering (IJISAE) vol 12, issue 4s,pp 367-374,2024 (Scopus Indexed).
- Published an article entitled “ **an smart intelligent performance analysis using ANN Classifiers for soil color texture identification**” in Intelligent systems and applications in engineering (IJISAE) vol 12, issue 1s,pp 18-26,2024 (Scopus Indexed).
- Published an article entitled, "**Algorithm for Recognition of Movement of Objects in a Video Surveillance System Using a Neural Network**", Hindawi Journal of Engineering, vol. 2022, Article ID 8216221,2022. <https://doi.org/10.1155/2022/8216221> (SCIE, Scopus Indexed).
- Published an article entitled (2022), “**MediaPipe to Recognise the Hand Gestures**”. WSEAS TRANSACTIONS ON SIGNAL PROCESSING. 18. 134-139. DOI:10.37394/232014.2022.18.19.
- Published an article entitled "**Lung Cancer Prediction from Text Datasets Using Machine Learning**", Hindawi BioMed Research International, vol. 2022, Article ID 6254177, 10 pages, 2022. <https://doi.org/10.1155/2022/6254177> (SCIE,Scopus Indexed).
- Published an article entitled (2022) “**Computer vision based Hand gesture recognition system**”, NeuroQuantology An Interdisciplinary Journal of Neuroscinece and Quantum Physics,

ISSN 1303 5150 DOI: 10.14704/nq.2022.20.7.NQ33365 (Scopus Indexed).

- Published an article entitled, “ **The impact of Emotional Intelligence on Teaching effectiveness and Research Quality of University Faculty in India**”, Journal of natural volatiles and essential oils Volume-8, Issue-5, Nov 2021 . (Scopus Indexed).
- Published an article entitled, “**Design and Performance Analysis of low power and high throughput of analog data compression and decompression using ANN in 32nm FinFET Technology**”, International Journal Of Circuits, Systems And Signal Processing NAUN Publishers, North America, E-ISSN 1996 4464 Volume-15, 2021 . (Scopus Indexed).
- Published an article entitled, “ **Renesas based Smart Robot Using Embedded System**”, International Journal of Research in Science, Commerce, Arts, Management and Technology Volume-2, Issue 1 Feb-2021.
- Published an article entitled, “ **Analysis of English Vowels based on Formants**”, International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Lambert’s Publisher Volume-1, Issue 2 Jan-2021.
- Published an article entitled, “**Cloud Computing based EHR**”, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8, Issue-1C, May 2019. (Scopus Indexed)
- Published Research article entitled, “**Vocal Tract Shape Synthesis For Various Indian Speaker Under Various Conditions**”. Journal of Advanced Research in Dynamical and Control Systems- JARDCS, Vol 9, Issue 10, Special Issue 20,2018. (Scopus Indexed)
- Published Research article entitled, “**Analysis of Vocal Tract Shape Variability for Different Conditions in Indian English Vowels.**”

Medwell Publisher under Journal of Engineering and Applied Sciences.
Vol 13, Issue 13, 2018 (Scopus Indexed)

- Published Research article entitled, “**Analysis of vocal tract shape variability based on format frequency ratio a various conditions**”, Volume 10, Issue 15, April 2017, Indian Journal of Science and Technology. (Ind JST) (Indexed by UGC List of Journals Serial no 122, Web of Science)
- Published Research article entitled,“**Formant Frequency Based Analysis of English vowels for various Indian Speakers at different conditions using LPC & default AR modelling**”, Vol. 14 CIC 2016 Special Issue International Journal of Computer Science and Information Security (IJCSIS) (Indexed by Thomson Reuters).
- Published research article entitled,“**Basic Acoustic Features Analysis of Vowels and C- V-C of Indian English Language**”, Volume 3, Issue 1, 2015, ITSI Transactions on Electrical and Electronics Engineering (ITSI-TEEE). (Impact Factor : 1.95 Provided by: ISI Thomson Reuters).
- Published research article entitled,“**Analysis and classification of voiced and Unvoiced Speech Processing**”, Volume 2, Issue 3, July-September 2016, Journal Of Technological Advances And Scientific Research (JTASR).
- Published research article entitled, “**Vocal Tract Shape Estimation of Vowels & c-v-v-c for diversified Indian english speakers.**”, at IEEE sponsored International conference EESCO-2015, IEEE conference Record number #35593 on January 24th and 25th 2015 Available in IEEEExplore Digital Libray. (Scopus Indexed)
- Presented two papers entitled “**Performance analysis of different modes of intraprediction techniques in H.264/AVC**”, & “**Vehicle**

speed control using RF in public sectors” at International Conference ICCTEM-2012, Organized by VVCE, Mysore on 12th -14th, July 2012.

- Presented a paper entitled “ **Formant frequency analysis of speech for VCV words of Indian native languages”** at SIET, Tumkur, organized in association with OSU-USA, in august-2013.

Hands on Experience:

- **PROGRAMABLE COUNTER/TIMER USING VHDL**

The programmable counter\timer has being implemented on FPGA simulated with XLINX. This programmable counter/timer has being provided with six different modes, and also it is provided with three different counters which can operate significantly in different modes. The counter/timer operates according to the manual control clock given by the user on appropriate loading of count value to the control word register.

- **Performance analysis of various Intraprediction modes of H.264/AVC**

The project has being implemented using the matlab tool. In this project the various modes of H.264/AVC are analyzed with the parameters such as PSNR & compression ratio. This new video compression will be done with respect to the variable step size of the image or video.

Personal Details:

Date of Birth : 22nd Feb 1985
Languages Known : English, Kannada, Telugu & Hindi.
Permanent Address : s/o Chandra shekar.C.M
#14, Nagarthpet
Chickballapur-562101

Hobbies:

- ❖ Troubleshooting, Documentation, Travelling.

Seminars/Workshops attended :

- Attended IETE International Conference on IoT, Big Data analytics and 5G on 13th to 15th December 2019 at UR Rao(ISRO) satellite center, Bangalore.
- Attended Three Day hands on Workshop on Analog and digital IC design using CADENCE Tool at NCET, Bengaluru in association with Entuple technology Bangalore on 12th – 14th March, 2019.
- Participated in Workshop on Image and Speech Processing (WISP) - 2015 held during 12th December 2015 at International Institute of Information Technology, Hyderabad (IIIT-H).
- Participated in a one day workshop on “Signal Processing & Its applications”, at Vijaya Vittala Institute of Technology, Bangalore on 13th March 2015.
- Participated in Workshop on Image and Speech Processing (WISP)- 2014 held during 13th December 2014 at International Institute of Information Technology, Hyderabad (IIIT-H).
- Attended one day workshop on “**Image Processing**” on 21st, April 2012 organized by department of ECE, ALPHA COLLEGE OF ENGG, Bangalore.
- Soft skill training by INFOSYS team in 2007 at SJCIT Chickballapur.
- Attended 3 day workshop on “Signal Processing & Applications” in RLJIT, Doddaballapur in 2008.

National Conferences :

- Presented a paper entitled “**Performance analysis of H.264/AVC using intra predication modes**”, at NCWCT-2011, organized by Dr.AIT, Bangalore on 27th -28th April 2011.

- Presented a papers entitled “**on radiated emission limits for pulsed interference to protect modern digital wireless communication system**”, ,at NCETEC-2012, organized by DBIT, Bangalore on 19th -21st April 2012.
- Presented papers entitled “**Pulse Coupled Neural Networks (PCNN)**” & “**Distributed Space Time Coding**” at **ETEC-2013** organized by VIT, Bangalore in March -2013.
- Presented a paper entitled “**Mobile Agent Computing**”, at ETET-2013 organized by SaCE, Bangalore on 11th May, 2013.
- Presented papers entitled “**Fundamentals of speech for speech processing/recognition**” & “**Effect of e-waste/e-chips on human body**” at **TECHNIKA-2013** organized by **AIT,Tumkur** on 14th,March 2013.

Academic activities/ Extra Curricular activities :
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- Assigned to complete the following university Examination related duties:
 - ❖ Attended more than 100 online webinars after april 2020, organized by various reputed institutions and various professional bodies such as IEEE, IETE, IE(I), ISTE and many more.
 - ❖ Acted as resource person many online webinars and conference with the delivery of the invited talks in my area of expertise.
 - ❖ External Deputy Chief Superintendent (DCS) for VTU Examination.
 - ❖ Question paper setter & Moderator for VTU, Autonomous institution, Deemed University.
 - ❖ Examiner for Practical examination for Different VTU, Autonomous institution, Deemed University.

- ❖ Acted as Project & seminar coordinator for period of 4 years in the Dept of Electronics & Communication at R.L.J.I.T, Doddaballapur.
- Successfully guided the following Final year Projects of various fields
 - ❖ Speech Signal Processing.
 - ❖ Artificial intelligence
 - ❖ Machine learning.
 - ❖ Image and Video Processing.
 - ❖ Simulation oriented (MAT LAB, HDL and ARM).
 - ❖ RFID Based projects.
 - ❖ Pervasive computing based on CAN/I2C.
- Taking responsibilities for organizing departmental Workshops/Seminars.

Place : Bangalore

Date :

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