R L JALAPPA INSTITUTE OF TECHNOLOGY

(Affilated to Visvesvaraya Technological University, & Approved by AICTE)

Doddaballapura - 561203, Bangalore Rural District

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Name	Dr.shivaprasad.K.M
Designation	Professor and Vice Principal
Area of Interest	Digital human speech processing,Image processing,IoT and WSN,Embedded systems
Email ID	shivaprasadkm@rljit.in
Research Identity	Orcid Id: https://orcid.org/0009-0004-3373-7751 Scopus Id: Google Scholar Id: Research gate Id: Vidwan Id: https://vidwan.inflibnet.ac.in/profile/354018

EDUCATION:

Research: Awarded the Ph.D degree on thesis titled "Analysis and Modeling of Vocal Tract and Emotional Speech in Indian Native Languages" at Jain University, Bangalore in the field of Speech Processing in the year of 2019.

MASTER DEGREE: M.Tech
Master of technology in Digital Electronics with CGPA of 7.47/10 in the year 2011 in Sri Siddhartha Institute of Technology (SSIT), Tumkur affiliated to VTU Belgaum.

BACHELOR DEGREE: B.E (Instrumentation Technology)
From Siddaganga Institute of technology (SIT), Tumkur affiliated to Bangalore University with First Class Degree (61.5%) in the year 1994.

TECHNICAL SKILLS:
Good research article writer,knowledge about mat lab,c language

PROFESSIONAL WORK EXPERIENCE:
Total Teaching Experience=22 years

1.Currently working as Professor and vice principal in the Department of Electronics and communication Engineering, R.L.Jalappa Institute of Technology, from January 2021.
2.Worked as Associate Professor in the Department of Electronics and communication Engineering, R.L.Jalappa Institute of Technology from April 2018 to December 2020.
3.Worked as Associate Professor and HoD in the Department of Electronics and communication Engineering, R.L.Jalappa Institute of Technology from January 2017 to March 2018.
4.Worked as Associate Professor in the Department of Electronics and communication Engineering, R.L.Jalappa Institute of Technology from January 2015 to December 2016.
5.Worked as Assistant Professor in the Department of Electronics and communication in R.L.Jalappa Institute of Technology from August 2008 to December 2014.
6.Worked as Assistant Professor in the Department of Electronics and communication in B.I.T Institute of technology, Hindupur from June 2001 to July 2008.
7.Two years worked as lecturer in the Department of Electronics and communication in K.I.E.T Bangalore, from 1996-1998.
8.Two years worked as lecturer in the Department of Electronics and communication in Oxford Polytechnic, Bangalore from 1994-1996.
9.Two years worked as lecturer in the Department of Electronics and communication in HMS polytechnic from 1992-1994.

PUBLICATIONS:
1. **"Basic Speech Feature Based Emotional Speech Analysis for Indian Native language." Journal of Engineering and Applied Sciences. ISSN: 1816 949X, Vol. no 13, issue no 13, 2018 pp 4917-4923. (Scopus indexed).**
2."Analysis and Modelling of Vocal Tract Shape Variability for Emotional Speech in South Indian Native Language" Journal of Advanced Research in Dynamical and Control Systems, Vol. 10, special issue 9, 2018, pp 123-131 (Scopus indexed).
3."Back End Tools for Speech Synthesis in Speech Processing" Indian Journal of Science & Technology, Vol. 10 (1), January 2017, DOI:10.17485/IJST/2017/v10i1/109410. ISSN (Print) 0974-6846, ISSN (online) 0974-5645.
4."Speech features Extraction Techniques for Robust Emotional Speech Analysis / Recognition" Indian Journal of Science and Technology, Vol. 10 (3), 2017, DOI:10.17485/IJST/2017/Vol 10, Issue 3,/110571.ISSN (Print)-0974-6846, ISSN (online) 0974-5645.
5."Speaker Dependant Speech Feature Based Performance Evaluation of Emotional Speech for Indian Native Language" Special Issue of International Journal of Computer Science and Information Security (IJCSIS) ISSN1947-5500, Vol. 14, 2016, pp 67-

INTERNATIONAL CONFERENCE:
1."Various Front End Tools for Digital Speech Processing" Proceedings of the 9th INDIACom. INDIACom-2105, IEEE conference ID: 35071, ISSN 0973-7529, ISBN 978-93-

80544-15-1 pp 858-863. Conference held on 11th to 13th March-2015 at New-Delhi in Association with Bharati Vidyapeeth.

2."Speaker Based Vocal Tract Shape Estimation For Kannada Vowels." IEEE sponsored International Conference- EESCO-2015, held on 24th & 25th January, 2015 at Visakhapatnam, ISBN: 978-1-4799-7676-8 and IEEE copyright notice: 978-1-4799-7678-2/15/$31.00 2015 IEEE with IEEE conference Record Number #35593, in association with Vignan's Institute of Information Technology- Visakhapatnam.

NATIONAL CONFERENCE:

1.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.

2.Presented a paper entitled "Adaptive Weiner Filter Techniques for Speckle Noise Reduction in Ultrasound Medical Images" at RAET-2011, Organized by Dr.TTIT, KGF on 25th March 2011.

3.Presented a paper entitled "Performance analysis of Denoising of Speckle noise from ultra sound images using Spatial filter and Frequency domain filters", at NCWCT-2011, organized by Dr.AIT, Bangalore on 27th -28th April 2012.

4.Presented three papers entitled "Everything Over Internet Protocol (EOIP)", "Cell and Cell tower Radiation Hazards", & "Next Generation Networks (NGN's)" at NCETEC-2012, organized by DBIT, Bangalore on 19th -21st April 2012.

5.Presented a paper entitled "Mobile Number Portability a Boon for Wireless Communication" at NCCTT-2013, organized by RLJIT, Doddaballapur in March-2013.

6.Presented a papers entitled "Pulse Coupled Neural Networks (PCNN)" & "Distributed Space Time Coding" at ETEC-2013 organized by VIT, Bangalore in March -2013.

7.Presented a paper entitled "Mobile Agent Computing" at ETET-2013 organized by SaCE, Bangalore on 11th May, 2013.

BOOK CHAPTERS:

TEXT BOOK AUTHORED:

PATENTS:

1.IoT based smart Stroke Disease prevention system using data mining approach in medical field.
APPLICATION NUMBER   202241015281
DATE OF FILING   19/03/2022
FIELD OF INVENTIONBIO-MEDICAL ENGINEERING
PUBLICATION DATE (U/S 11A)   25/03/2022

2.An Advanced Image Processing Technique For Early Detection Of Skin Cancers And Treating Them Through Artificial Intelligence Enabled Nanoparticles
FIELD OF INVENTION   BIO-MEDICAL ENGINEERING
DATE OF FILING   29/03/2022
PUBLICATION DATE (U/S 11A)   08/04/2022
APPLICATION NUMBER   202241018535

3.Design patent filed:Bio sensor device to detect lung cancer using machine learning
Application number-381140-001,Filling date:09/03/2023
Link to verify: https://search.ipindia.gov.in/DesignApplicationStatus/

FUNDED PROJECTS:

INVITED TALKS:
   • **DSP and its applications @ SJCIT ,CHICKABALLAAAAPUR,ON JULY ,2018**

FDP/WORKSHOP ATTENDED:
1.Attended staff development program on "Microstrip Antennas and Advanced Communication Systems" held on 3-4th February 2009, organized by department of electronics and communication Eng. and Telecommunication Eng. Sir MVIT Bangalore.
2.Attended one week faculty development program "Analog Signal Processing" held during 3rd August to 8th Aug 2009 organized by dept. of ECE, National Institute of Technology, Surathkal, Karnataka.
3.Participated in the faculty development program "Design and Development of Embedded Systems using ARM processor" held on 3rd September 2009 at UTL Technologies pvt ltd. Bangalore.
4.Attended three day faculty development Programme on "Research Process, Technical Paper Writing and Patenting" conducted by R and D center, M S Engineering College, Bangalore during 22-24th, Jan2014, Sponsored by ISRO and DRDO.
5.Attended one week training program for teachers on "An overview of teaching techniques in wireless cellular and LTE 4G Broadband" held during 27th Jan to 31st Jan 2020, organized by AICTE-VTU at VTU PG centre Muddenahalli.

6.Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "TRENDS IN MEMS & NANOTECHNOLOGY" from 07/12/2021 to11/12/2021 at ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY.

7.Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Photonics and its application" from 14/02/2022 to 18/02/2022 at Sardar Vallabhbhai National Institute of Technology.

8.Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Wearable Devices" from 17/01/2022 to 21/01/2022 at St.Joseph's College of Engineering and Technology, Palai, Kerala.

9.Attended VGST sponsored 4 days faculty development program on "pathological speech signal processing- challenges,oppurtunites and future direction from 2nd march 2022 to 5th march 2022 organized by GSSS institute of Engineering and technology for women mysuru.

Seminars/Workshops attended:

1.   "Emerging trends in integrated Electronics" sponsored by AICTE and organized by B.I.T Institute of technology, Hindupur in 2005-2006.

2.   Workshop on "Real time concepts for Embedded system" sponsored by U.G.C organized by SKD university, Ananthapur in March 16th & 17th 2008.

3.   One day workshop on "Microstrip Antennas" organized by Department of Electronics & Communication at Sri Venkateshwara College of Eng., Bangalore on 12th Jan 2009.

4.   Attended Two days' workshop on "Emerging Trends in Electronics and its applications " during 6th & 7th March 2009 organized by Department of Electronics & Communication R.L.J.I.T Doddaballapur.

5.   Attended one day workshop on "Image Processing" on 21stApril 2012, organized by department of ECE, Alpha College of Eng., Bangalore.

6.   Attended Three days' workshop on "Speech Signal Processing", organized by National Institute of Technology, Warangal on 10th -12th May-2013.

7.   Attended Two days' workshop on "LAB view" conducted by the department of ECE in association with Trident Tech Labs, Bangalore on July 24-25th 2013, at SJC Institute of technology, Chickkaballapur.

8.   Attended one day workshop on "Image and Speech processing (WISP-2014)" organized by IIIT-Hyderabad, in association with Center for Excellence in Signal Processing(CESP) at IIIT-H on December-13th, 2014.

9.   Attended one day workshop on "Image and Speech Processing (WISP-2015)" Organized by IIIT-Hyderabad, in association with Center for Excellence in Signal Processing (CESP) at IIIT-H on December-12th, 2015.

10.   Attended one day workshop on "Over View of Control Systems "organized by IETE-Bangalore Center on March-20th, 2016.

11.   Attended two day workshop on "MAT- Lab Primer" organized by Department of ECE, RLJIT, Doddaballapur in association with IETE- Bangalore center on 10-11th, March 2016.

CONFERENCE/FDP/WORKSHOP CONDUCTED: Acted As A Coordinator For Conducting Many National And International Conferences @Rljit

UNIVERSITY RESPONSIBILITIES:

1.Acted as BoE For The Year 2022 for VTU, EC/TC board,

2. Also Paper setter, Valuator, DCS, Moderator & Chief Examiner for different theory Exams of VTU other Autonomous institutions.

2.Acted as Project coordinator for period of 3 years in the Dept. of Electronics & Communication at B.I.T.I.T, Hindupur.

3.Acted as Project coordinator for period of 6 years in the Dept. of Electronics & Communication at R.L.J.I.T, Doddaballapur.

4.Successfully guided the Final year Projects of various fields includes: Speech Signal Processing, Zig-bee Communication, Image and Video Processing, Simulation oriented (MAT LAB, HDL), RFID Based projects, Pervasive computing based on CAN/I2C.

5.Taking responsibilities for organizing departmental   Workshops/ Seminars/Conferences/
 Convener for international conference.

6.Acted as IETE /IEEE student chapter coordinator at college level.

OTHER RESPONSIBILITES:

COLLEGE LEVEL:
1.Presently nominated as NAAC coordinator at institute level(RLJIT)

DEPARTMENT LEVEL:
2.Acted As Project Coordinator For Department Of Ece For 10 Years

---

PROFESSIONAL MEMBERSHIPS:
1.   **Member IEEE(94031065)**
2.   **Fellow Member of FIE (F-121246-6).**
3.   **Life member of MIETE (M 212432 Ex governing council member of IETE Bangalore).**
4.   **Life member of MISTE (LM61341).**
5.   **Member signal processing society-IEEE.**

HONORS/AWARDS:

OTHER SIGNIFICANT ACHIEVEMENTS (if any):

CONTACT DETAILS: Dr. SHIVA PRASAD.K.M
S/o Mallikarjunaiah N
Devanampriya Nilaya
Vidyanagar, Bhagath Singh Road,
Gauribidanur-561208.
Email: shivaprasadkm@rljit.in,kmsp1970@gmail.com
Contact: +91 974 1983 274