

## FACULTY PROFILE



**Name** : Dr. K. Shridhar

**Designation** : Professor and HOD  
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**Scopus ID** : 57192541637

**Vidwan Id** : 170013

**Researcher ID (Web of Science)** : AAI-4803-2021

**Google Scholar ID** : TfqBWDYAAAAJ

**Qualification** : B.E (Electronics and Communication Engineering)  
M.Tech (Digital Electronics and Advanced Communication)  
Ph.D (Speech Signal Processing)

### Professional Experience

Teaching experience : 31 Years

Industry experience :

**Administrative** : 1. Head of the department since 02-11-2020

**Responsibilities** : 2. P.G Course Coordinator

3. P.G NBA Coordinator

4. U.G NBA Coordinator

5. BOG Member

6. Admission coordinator for the academic year 2019-20

7. BEC Autonomy policy framing committee member

8. BEC Policy and procedures framing committee member

9. GoK Mahiti-Sindhu computer education program evaluator

**Teaching** :  
**No. of Projects Guided**

UG : 80

PG : 20

**Research**

Interest Area : 1. Speech signal processing  
2. Control systems  
3. Electronic devices  
4. Signal modeling

**No. of Research Scholars**

Pursuing : 07

**Publications** :

- Journals (with citations)** :
1. Dr.(Mrs) S.D.Apte, Shridhar. " Speech Enhancement in Hearing Aids using Conjugate Symmetry Property of Short Time Fourier Transform" International Journal of Recent Trends in Engineering, Academy publishers, Finland, Nov 2009, Vol 2, No 1-6, pp 346 -351. No of citations 1
  2. Dr.(Mrs) S.D.Apte, Shridhar. " Speech Enhancement in Hearing Aids using Conjugate Symmetry of DFT and SNR-Perception Models " International Journal of Computer Applications (0975-8887)". Computer Society of America Publishers, USA. 2010 Volume 1-No.21. pp 43-51. No of citations 5
  3. Supriya. P. Sarvade, Dr. Shridhar. K and Varun. P. Sarvade. "Time Efficient Structure for DFT Filter Bank" International Journal of Emerging Trends in Science and Technology, Volume 03, Issue 11, Year 2016-2017, Pages 4791-4794, IGM Publication, ISSN No: 2348-9480
  4. Supriya. P. Sarvade, Dr. Shridhar. K and Varun. P. Sarvade. "Multiband Spectral Subtraction for Speech Enhancement Using Sine Multitaper" IOSR Journal of VLSI and Signal Processing" Volume 06, Issue 06, Version II, Pages 70-76. e-ISSN: 2319-4200, p-ISSN No: 2319-4197.
  5. Megha S. Karabashetti, Dr. Shridhar S. K. "Speech Enhancement using Multiband Spectral Subtraction with Cross Spectral Component Reduction" International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181. Special Issue – 2019, Volume 7, Issue 10, pp 1-4.
  6. Anand H.Unnibhavi, D.S.Jangamshetti, Shridhar K. "Triphone Model Based Novel Kannada Continuous Speech Recognition System using Kaldi Tool" International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-9, July 2020, pp 452-458.
  7. Jagadish S.Jakati, Shridhar S.Kuntoji, "Speech Enhancement Using Novel Time Frequency Analysis Techniques: "A Survey on Speech Enhancement". International Journal of Advanced

Trends in Computer Science and Engineering, Volume 9, No.4,July- August 2020. Available Online at <http://www.warse.org/IJATCSE/static/pdf/file/ijatcse09942020.pdf> <https://doi.org/10.30534/ijatcse/2020/09942020>

8. Jagadish S.Jakati, Shridhar S.Kuntoji, “Efficient Speech Denoising Algorithm using Multi-Level Discrete Wavelet Transform and Thresholding”, International Journal of Emerging Trends in Engineering Research. Volume 8. No. 6, June 2020. Available Online At <http://www.warse.org/IJETER/static/pdf/file/ijeter43862020.pdf> <https://doi.org/10.30534/ijeter/2020/43862020>

9. Jagadish S.Jakati, Shridhar S.Kuntoji, “A Noise Reduction Method Based on Modified LMS Algorithm of Real time Speech Signals”. Wseas transactions on Systems and Control DOI: 10.37394/23203.2021.16.13, E-ISSN: 2224-2856, Volume 16, 2021

## Conferences

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1. Shridhar, A.V. Sutagundar, M.S.Tambakad “Wavelet based Approach to Image Compression”, Proceedings of National Conference on High Performance Computing, VISION –05, organized by Govt. College of Engineering, Tirunelveli, Tamil Nadu, on 08-04-2005, pp 49-52.
2. Shridhar, S.D. Apte, “Maximum likelihood estimation of Speech model parameters for speech recognition using HMM”, Proceedings of National Conference on Mathematical methods and Applications, Organized by Basaveshwar Engineering College, Bagalkot, during 17-18 March 2007, pp 39-40.
3. Shridhar, B. Veeresh, “Wavelet based Novel Image Compression using Embedded zero tree encoding technique”, Proceedings of National Conference on Signal Processing and Communication, organised by JNNCE, Shimoga, during 07-08 July 2007, pp 19-20.
4. Shridhar, R. S.Allurkar H.K. Verma, “Hearing aid research issues: Current trends and Challenges”, Proceedings of IEEE International Conference on Signal and Image Processing- 2006, organised by BVB College of Engineering and Technology, Hubli, during 7-9 Dec. 2006, pp-62-63.
5. Shridhar, B.S.Anami, R.S.Allurkar, D.S.Albur, “ Two channel Perfect Reconstruction Filter Bank”, Proceedings of Indian Conference on Technologies for postal automation, organised by Basaveshwar Engineering College, Bagalkot, during 5-6 Oct. 2007, pp73-75.
6. Srinivas P, S.V.Mahapurush, Shridhar k. “Simulation and comparison of IEEE physical layer for Standards 802.11a and 802.11b” Proceedings of National conference on Recent trends in Electronics and information Technology organised by S.R.E.S.S. College of Engineering, Kopergaon Maharastra. During the period 28<sup>th</sup> -29<sup>th</sup> July 2006.pp 81-87.
7. Shridhar K. B.L.Patil. “Role of neural network based

grain analysis in agricultural development”. Proceedings of National seminar on contemporary challenges for Indian agriculture and rural development. Organised by UAS Dharwad, during 08<sup>th</sup> -10<sup>th</sup> Jan 2004. pp.163.

8. International Conference on Futuristic Computer Applications, IISc, Bangalore, “Speech Enhancement in Hearing Aids using Conjugate Symmetry of DFT and SNR-Perception Models”, March 20-21, 2010, pp 43-51

9. Proceedings of National Conference on Mathematical methods and Applications, Basaveshwar Engineering College, Bagalkot, “Maximum likelihood estimation of speech model parameters for speech recognition using HMM”, March 17-18, 2007, pp 39-40.

10. Proceedings of Third International Conference on Electrical, Electronics, Communication, Computer technologies and Optimization Techniques (Sponsored by IEEE ), GSSS Women Engineering College, Mysore, “Survey on Speech Enhancement Using Filter Banks”, December 14-15, 2018, pp 781-785.

### **Invited Talks**

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1) An invited talk on “VLSI in signal processing” at AICTE-ISTE sponsored STTP on semiconductor physics and VLSI design organized by Basaveshwar Engineering College, Bagalkot during 07<sup>th</sup> –19<sup>th</sup>, Feb. 2005.

2) An invited talk on “Elements of digital signal processing” at AICTE sponsored workshop on signal processing for polytechnic teachers organized by BVVS polytechnic Bagalkot during the year 2003.

3) An invited talk on “Fundamentals of Multi rate signal processing” at world bank sponsored faculty development program on digital signal processor and its applications organized by department of instrumentation technology of Basaveshwar Engineering College, Bagalkot during 25<sup>th</sup> –30<sup>th</sup>, Sept. 2006.

4) An invited talk on “Multi rate systems and filter banks” at world bank sponsored faculty development program on signal processing and its applications organized by department of Instrumentation Technology of Basaveshwar Engineering College, Bagalkot during 9<sup>th</sup> –11<sup>th</sup>, Oct. 2006.

5) An invited talk on “Multi rate signal processing” at National workshop on digital signal processor and its applications organized by BLDEA College of Engineering and Technology, Bijapur, during 27<sup>th</sup> –29<sup>th</sup>, Sept. 2007.

6) An invited talk on “Speech Processing with multi-rate signal processing” at national workshop on wavelets and its applications organized by Basaveshwar Engineering College, Bagalkot, during 13<sup>th</sup> -15<sup>th</sup>, March 2008.

7) An invited talk on “Spread Spectrum Modulation Techniques” at AICTE-ISTE sponsored STTP organized by BVVS Polytechnic, Bagalkot during 23<sup>rd</sup> -27<sup>th</sup>, June 2008.

8) An invited talk on “Speech Enhancement” at Pune

University sponsored STTP on “Emerging trends in speech signal processing” organized by “All India Shri Shivaji Memorial Society’s Institute of Information Technology” Pune from 15-01-2015 To 19-01-2015.

9) An invited talk on “Research in Speech Enhancement” at G.H.Raisoni institute of engineering and technology, Pune, AICTE sponsored three days national level seminar on “Audio and speech processing” from 12-11-2013 to 14-11-2013.

10) An invited talk on “MATLAB Programming” during one day workshop on MATLAB, organized by first grade degree college Bagalkot on 14-03-2015.

11) An invited talk on “MATLAB Programming” during one day workshop on MATLAB, organized by B.L.D.E.A. Polytechnic, Bijapur on 19-09-2015.

12) An invited talk on “MATLAB Programming” was delivered on 23<sup>rd</sup> January 2017 during three day workshop from 23<sup>rd</sup> to 25<sup>th</sup> January 2017 on “Image Processing”, organized by Sri S. G. Balekundri Institute of Technology Belgaum.

13) An invited talk on “MATLAB Programming and its applications” was delivered on 30<sup>th</sup> May and 01<sup>st</sup> June 2017 during one week refresher course from 29<sup>th</sup> May to 03<sup>rd</sup> June 2017 on “Physics” organized by Sri BVVS Basaveshwar Science College Bagalkot under Journey Towards Excellence program of Sri Basaveshwar Vidyavardhak Sangha Bagalkot.

14) An invited talk on “Advanced DSP and its Applications” was delivered on 23<sup>rd</sup> February 2019, organized by department of Electrical and Electronics Engineering, Jain Institute of Technology, Davanagere, Karnataka.

15) Invited lecturer series on MATLAB was delivered from 24<sup>th</sup> August 2020 to 29<sup>th</sup> August 2020, organized by Basaveshwar Science College Bagalkot under Professional Development Training Programme.

16) Invited online talk during webinar on “Speech Enhancement” was delivered on 11<sup>th</sup> November 2020, organized by ECE department of Angadi Institute of Technology and Management, Belagavi.

17) Invited talk in AICTE sponsored online FDP on “Fostering Ethics, Moral Values and Character Building in Technical Education” was delivered on 21<sup>st</sup> December 2020, organized by Shri Venkateshwara College of Engineering Bangalore.

18) Invited online talk in IEEE 8021.11 Wireless Networks, A Gigabit Journey Course Series on ” FFT, IFFT and OFDM was delivered on 27<sup>th</sup> December 2020, organized by Rishivaakya Academy Bangalore.

19) Invited online talk in IEEE 8021.11 Wireless Networks, A Gigabit Journey Course Series on ” FFT, IFFT and OFDM was delivered on 10<sup>th</sup> January 2021, organized by Rishivaakya Academy Bangalore.

## Events Organized

- : 1) FDP on “Advances in Control Systems” organized by Basaveshwar Engineering College, Bagalkot and IIT Bombay,

during 25-02-2017 To 27-02-2017.

**Conferences/  
Symposiums/  
Workshops/ Training  
Programs Attended**

1. Workshop on Image and Signal Processing (WISP-2007) Organized by IIT Guwahati during 28-29, Dec. 2007.
2. STTP on Embedded Systems and Technology **Organized by IIT Kharagpur during 25-30, June 2007**
3. Recent Trends in Signal Processing and Wireless Communication Organized by GND Engineering College, Bidar during 1-2 March 2007
4. STTP on SCADA & PLCs for Industrial Automation Organized by Basaveshwar Engineering College Bagalkot and TEQIP World Bank during 21-23 Dec. 2007
5. Digital Signal Processor and its Applications Organized by Basaveshwar Engineering College Bagalkot and TEQIP World Bank during 25-30 Sept. 2006
6. Signal Processing and its applications Organized by Basaveshwar Engineering College Bagalkot and TEQIP World Bank during 9 – 11 Oct. 2006.
7. STTP on speech and image processing Organized by Basaveshwar Engineering College Bagalkot and TEQIP World Bank during 23 – 28 July 2007
8. MATLAB Programming for Electrical & Electronics faculty Organized by Basaveshwar Engineering College Bagalkot and TEQIP World Bank on 16<sup>th</sup> Oct. 2006
9. STTP on Internet Protocols Organized by Basaveshwar Engineering College Bagalkot and TEQIP World Bank during 21-26 Aug. 2006.
10. Mathematical modeling for Digital Image Processing Organized by Basaveshwar Engineering College Bagalkot during 9 – 14 January, 2006.
11. Workshop on M. Tech Syllabus formation Organized by MSRIT, Bengaluru on 18-11-2005
12. Workshop on Flash microcontroller and DSP Organized by BIT Bangalore during 4 – 9 August, 2005.
13. STTP on Semiconductor physics and VLSI design Organized by Basaveshwar Engineering College Bagalkot during 7-19 February, 2005.
14. National level seminar on recent trends in computer communication and networking Organized by Basaveshwar Engineering College Bagalkot during 15-16 March, 2005
15. STTP on Embedded Systems and Applications Organized by Basaveshwar Engineering College Bagalkot during 22-27 March, 2004
16. Learning Organization and Knowledge Management in Technical Education Organized by Basaveshwar Engineering College Bagalkot and AICTE-ISTE during 16-21 Feb. 2004.
17. STTP on Futuristic Materials and their applications Organized by Basaveshwar Engineering College Bagalkot and AICTE-ISTE during 18 – 30 August, 2003
18. STTP on Wavelet based Computer graphics and image processing Organized by Amruta Institute of Technology & Science Coimbatore and AICTE-ISTE during 20-31 January, 2003
19. STTP on Processing of Composite materials Organized by Basaveshwar Engineering College Bagalkot and AICTE-ISTE during 26 August – 7<sup>th</sup> September, 2002
20. STTP on recent trends in Renewable energy sources Organized by Basaveshwar Engineering College Bagalkot and AICTE-ISTE during 3 – 15 September, 2001
21. National Seminar on Technical Education and Challenges in the New Millennium Organized by Basaveshwar Engineering College

- Bagalkot and AICTE-ISTE during 3 – 4 November, 2001
22. National Workshop on M-CORE Microcontroller and Code Warrior Organized by VTU-Motorola during 16 – 22 October, 2000.
  23. STTP on Advanced Computer networking Organized by Basaveshwar Engineering College Bagalkot and AICTE-ISTE during 14 – 27 September, 1998
  24. STTP on IBM PC based intelligent Instrumentation Organized by MIT Manipal and AICTE-ISTE during 07 – 27 July, 1997
  25. Induction Training Program Organized by K.U.D. Dharwad and ISTE during 5 – 25 June, 1997
  26. Electronic Design Automation Tools Organized by AICTE Sponsored National Workshop organized by E &CE Dept. Basaveshwar Engineering College, Bagalkot during 19 – 21 October, 1995
  27. National workshop on Basics of Wavelets and applications Organized by Basaveshwar Engineering College, Bagalkot during 13 – 15 March, 2008.
  28. Faculty Development Program on computer network simulation Organized by Basaveshwar Engineering College and TEQIP during 21 – 23 February, 2008
  29. Workshop on Modeling and simulation using MATLAB simulink for electrical engineers Organized by Basaveshwar Engineering College, Bagalkot during 22 – 23 March, 2008
  30. Post Graduate Technical Symposium.PRAGATI-06 Organized by B.V.B. College of Engineering and Technology on 9 September, 2006
  31. Workshop on counseling techniques Organized by Basaveshwar Engineering College Bagalkot on 25 August, 2006
  32. QEEE Training program on Digital Signal Processor Lab Organized by IIT Madras during 25 – 26 June, 2015
  33. Management Capacity Enhancement Programme Organized by IIM Lucknow (Noida Campus) during 5 – 9 October, 2015
  34. International Training Program on Small Satellite Missions and Technology Organized by Indian Space Research Organization Bangalore and Indian Institute of Remote Sensing Deharadun during 21 November – 2 December, 2016
  35. Faculty development program on “Design of Experiments for formulation of research problem” Organized by Basaveshwar Engineering College Bagalkot and IIT Bombay on 20 January, 2017.