SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hesaraghatta Main Road, Banglore-560057, Karnataka, India
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY PROFILE

Name of the faculty	**Dr. H C Sateesh Kumar**
Designation	PROFESSOR AND HEAD
Contact Number	080 28372800/1/2 Ext: 229 Mob: 9986633223, 9449631693
Email ID	hodece@sapthagiri.edu.in

Educational Qualification

Degree	Specialization	University	Year of Passing
BE	Electronics Engineering	Bangalore University	1994
M Tech	Biomedical Instrumentation	University of Mysore	1997
Ph D	Computer Science and	Bangalore University	2017

Work Experience

Teaching	Research	Industry
23 years	10	0

Publications

National/International Journals	National/International Conferences	Books Authored/Edited
13	26	0

Area of Interest

Signal and Image Processing	Communication Engineering

Membership in Professional Bodies/University Bodies/Organization

- Life Member of Indian Society for Technical Education (MISTE).
- Life Member of Institute of Electronics & Telecommunication Engineers(MIETE)
- Life Member of Institution of Engineers (MIE)(INDIA)

Publications National/International Journals

1. **H C Sateesh Kumar**, K B Raja, Venugopal K R and L M Patnaik, "Automatic Image Segmentation using Wavelets", *Proceedings of International Journal of Computer Science and Network Security(IJCSNS)*, ISSN:1738-7906, VOL.9, No.2, pp. 305-313, February 2009,**(Thomson Reuters indexed)**

2. Snehalata Patil, **H C Sateesh kumar**, Ashwin Angadi Shatter, "SMTP for POS (Vx520)" *Proceedings of World Journal of Science and Technology*, Vol.12, no.1,pp79-83, 2011

3. Sreevidya N, **H C Sateesh Kumar**, "SRRC Filter Implementation as per DVB-S2 Standard", *Proceedings of International Journal Of Innovative Research & Development (IJIRD)*, Vol.2,No.5, pp.1148-1161, May2013

4. Rakshith Upparige K R, **Sateesh Kumar H C**, "Reputation Based Zone Trust Detection And Swatt Revocation method Using SPRT In Sensor Networks" *Proceedings of International Journal of Innovative Research in Science, Engineering and Technology(IJIRSET)* Vol. 2, No.5,pp.1866-1871, May 2013 **(UGC Approved Journal)**

5. Nikhil R N, **Sateesh Kumar H C**, "Up gradation UE-Stack in LTE-A for Release 10" *Proceedings of International Journal of Innovative Research in Science, Engineering and Technology(IJIRSET)* Vol. 2, No.7, pp.3149-3152, July 2013**(UGC Approved Journal)**

6. Karthik G, **Sateesh Kumar H C**, "A Novel Approach for Face Recognition Using PCA and Artificial Neural Network" *proceedings of International Journal of Computer Science and Mobile Computing"* Vol. 3, Issue. 5, , pp.780 – 787, May 2014 (**Impact factor:6.017)**

7. Sangeetha B P, Arindam Mal, **H C Sateesh Kumar**, Subhalakshmi.K "Stereo for Robotic Application in Spacecraft", *proceedings of International Journal of Advanced Research Trends in Engineering and Technology"* Vol.2, Special Issue:5, pp.20-26, April2015

8. Aejaz Ahmed**, H C Sateesh Kumar,** "HLA based public auditing architecture to find malicious node in ad hoc network - a Review", *proceedings of International Journal of Research in Science and Engineering"* Vol.1, Special Issue:2, pp.325-328, May2015 **(UGC

1. **Sateesh Kumar H C**, Sayantam Sarkar, Satish S Bhairannawar, Raja K B and Venugopal K R "FPGA Implementation of Moving Object and Face Detection using Adaptive Threshold," *proceedings of International Journal of VLSI design & Communication Systems (VLSICS)*, ISSN: 0976-1357(ONLINE), 0976-1527(PRINT), Vol.6, No.5, pp.15-35, Nov2015(**Impact factor:1.0)**

2. **Sateesh Kumar H C,** Raja K B and Venugopal K R, " Optimized Biometric system based on Combination of Face Images and Log Transformation," *proceedings of Signal & Image Processing : An International Journal (SIPIJ) ISSN: 2229 - 3922 (print), e-ISSN : 0976 - 710X(Online),* Vol.7, No.2, pp. 57-72, April2016 **(UGC Approved Journal)**

3. **Sateesh Kumar H C**, Abhilash S K and Raja K B and Venugopal K R, "Transform Domain based Iris Recognition using EMD and FFT", *IOSR Journal of VLSI and Signal Processing (IOSRJVSP),* e-ISSN:2319 – 4200, p-ISSN:2319 – 4197, vol.7, issue 1, ver.I, pp.08-15, January 2017, **(Impact factor *2.82*)(UGC Approved Journal, Sl.No.-5081)**

4. **Sateesh Kumar H C**, C Chowda reddy , Raja K B and Venugopal K R, "Face Recognition based on STWT and DTCWT using two dimensional Q-shift Filters", *International Journal of Engineering Research and Applications (IJERA),* ISSN: 2248-9622, vol. 7, issue 1, pp.64-79, January 2017 **(UGC approved Journal Sl. No.4525,Thomson Reuters Indexed)**

5. Meghana A S, Niveditha M,Prathibha K , Raksha G R, **Dr. H C Sateesh Kumar,** "Smart speaking glove for speech impaired people" *Proceedings of International Research Journal of Engineering and Technology (IRJET),* Vol.6,Issue 6, pp. 830-836, June 2019 **(Imapact Factor 7.211)**

International Conferences:

6. **H C Sateesh Kumar** , K B Raja, Chandrakala C, Fazilath Begum, Venugopal K Rand L M Patnaik "Unsupervised Image Segmentation using Wavelets." *Proceedings of International Conference on Emerging Trends in Computing [ICETiC 2009],*pp.15-19, January 2009

7. Sangameshwar, **H.C. Sateesh Kumar**, Shivakumar and Vivekanand, "Assured Dynamic Reconfiguration Framework for PCEs", *Proceedings of International conference on communication, computation, control and Nanotechnology (ICN2010,)* pp.740-746, October 2010

8. Snehalata Patil, **H C Sateesh kumar**, Ashwin Angadi Shatter, "SMTP for POS (Vx520)" **"***Proceedings of International conference on communication, computation, control and Nanotechnology (ICN 2011)",* September2011

9. Sushma B S, **H C Sateesh kumar**, "Study of encoding algorithms for analyzing their efficiency to encode long binary cyclic codes" **"***Proceedings of seventh IETE International conference on RFW-2014"* HKBK College of Engineering, Bengaluru, May 2014

10. **Sateesh Kumar. H. C**, Abhilash S.K, Raja K B, Venugopal K R, L M Patnaik, "Iris Recognition using Fusion of EMD and FFT ", *Proceedings of **IEEE** International Conference On Computational Intelligence And Computing Research, ISBN:978-1-61284-766-5,* pp.607-613, Dec2011

11. Keerti Adrakatti, **Sateesh Kumar H.C, "** Segmentation of Images with Intensity Inhomogenities using Level Set Method and snakes", *Proceedings of International Conference on Current Trends in Engineering and Management, ICCTEM 2012,*12-14July 2012

12. Amit Kumar Mishra, Chiranth H S, Mohammed Atiq, Sandesh A N, **Sateesh Kumar H.C,** **"**Multi feature based Robust Coding for Face Recognition", *Proceedings of International Conference on Computer Science And Information Technology,(ICCSE2012),* 30th June2012

13. Rakshith Upparige K R, **Sateesh Kumar H C**, "Zone Trust Detection And Revocation Using Sequential Analysis in WSN's" *Proceedings of International Conference on advances in Engineering and Technology(ICEAT),*pp.81-84, Dr. MGR Educational and Research Institute University, Chennai, 5th and 6th April 2013

9. Sreevidya N, **H C Sateesh Kumar**, "SRRC Filter Implementation Using Altera Processor as per DVB-S2 Standard ", *Proceedings of International Conference on advances in Engineering and Technology(ICEAT),*pp.81-84, Dr. MGR Educational and Research Institute University, Chennai, 5th and 6th April 2013

10. Nikhil R N, H **C Sateesh Kumar**, Development of UE(User Equipment) In LTE From Release-8 to Release-10, *Proceedings of International Conference On Advanced Computing and Information Technology (ICACIT-2013),*AMCEC, Bengaluru. 21st and 22nd March 2013.

11. Sreevidya N, **H C Sateesh Kumar**, "FPGA Implementation of SRRC Filter Using as per DVB-S2 Standard ", *Proceedings of **International** Conference on advances in Engineering and Technology(ICEAT), Proceedings of International Conference On Advanced Computing and Information Technology (ICACIT-2013),*AMCEC, Bengaluru. 21st and 22nd March 2013.

12. Sangeetha B P, Arindam Mal, **H C Sateesh Kumar**, Subhalakshmi.K "Stereo for Robotic Application in Spacecraft", *proceedings of 2nd International Conference on Advances in Computer and Communication Engineering (ACCE-2015)",* Vemana Institute of Technology,Bengaluru, pp.55-59, 5th and 6th May2015

13. **Sateesh Kumar H C,** Sayantam Sarkar, Satish S Bhairannawar, Raja K B, and Venugopal K R, "An Adaptive Threshold based FPGA Implementation for Object and Face Detection," *Proceedings of Third **IEEE** International Conference on Image Information Processing* pp.157 - 161, 2015,

14. **Sateesh Kumar H C,** C Chowda Reddy, Raja K B and Venugopal K R, "Performance Analysis of Face Recognition based on STWT And DTCWT Using Two Dimensional Q-Shift Filters," *Proceedings of International Conference on Electrical, Electronics & Computer Science,* ISBN: 978-93-86083-84-5, pp. 58-63, August 2016

15. Sreekala, **Sateesh kumar H C,** Raja K B, "Multi image Enhancement technique using Morphological Haar wavelet Transform," *Proceedings of International conference on Topical Transcends in Science, Technology and Management (ICTTSTM2018),* August 2018. **(UGC Approved)**

16. Pooja Manjunath, Spurthi.H.T, Priyadarshan.C.S, Prashanth.N, **Sateesh Kumar H.C**, "Directional Sparse Bayesian Attainments for Compressive Sensing with Appliance to Ultra High Definition (UHD) TV set," *International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT 2018),* pp.189-192, 2018

17. Sreekala Kannoth, Halugona C Sateesh Kumar "Multi image Enhancement Technique using Max-plus Algebra based Morphological Wavelet Transforms" Proceedings of 4th International Symposium on Advances in Signal Processing and Intelligent Recognition Systems SIRS 2018, Springer Communications in Computer and Information Science, Bengaluru, India, PP.421-432, September 2018 **(Scopus Indexed)**

National Conferences:

18. Rakshith Upparige K R, **Sateesh Kumar H C**, "Sequential Analysis in WSN's Using Zone Trust and Revocation" *Proceedings of National Conference on Emerging trends in Engineering and Technology,* Sapthagiri College of Engineering, Bengaluru, 11th May 2013.

19. Sreevidya N, **H C Sateesh Kumar**, "DVB-S2 Standard-SRRC Filter Implementation", *Proceedings of National Conference on "Frontiers and Advances in Information Science and Technology" FAIST-2013,* Rajarajeshwari college of Engineering, Bengaluru,

ISBN: 978-162-05-0050-7

20. Chidananda H C, **H C Sateesh kumar**, "Fast Virtual Disk based Multi-Deployment and Multi-Snapshotting on Clouds", *Proceedings of National Conference on Digital convergence, NCDC 2012",*pp.167-171, 21 April2012

21. Snehalata Patil, **H C Sateesh kumar**, Ashwin Angadi Shatter, "Implementation of Simple Mail Trasfer Protocol for Point-of-Sale(POS)Terminal", *Proceedings of National conference on Computational Control System & Optimization,* May2011

22. Shilpa S P, **Sateesh Kumar H.C,** "A Filter Scheme for data reporting in Wireless environment", *Proceedings of National Conference on Emerging Mobile Technologies and policies*, 28-30 May2012.

23. Sageetha B P, Arindam Mal, **Sateesh Kumar H.C,** Subhalakshmi, Comparative study of Stereo 3D Information, "*Proceedings of National Conference on Emerging trends in Electronics and Communication", NCETEC 2012,* 19-21, April 2012.

24. Karthik G, **Sateesh Kumar H C,** "Hybrid Features Based Face Recognition Approach Using PCA and Artificial Neural Network", 1st IEEE National Conference on Electrical and Electronics Engg., NCEE-2014, HKBK College of Engg, Bengaluru, 5th June 2014.

25. Sushma B S, H C Sateesh Kumar, "Time efficient encoding algorithm for applications to long binary cyclic codes" *Procedings of National conference on Technological advances in Electronic systems design, NCTAESD-2014,* pp.252-255, Vemana Institute of Technology, Bengaluru. 25th and 26th April 2014

26. Harish R Purohit, H C Sateesh Kumar, "Automated Fault correction Engine for IVR System", *Proceedings of National conference on Emerging Mobile Technologies and Policies,* NCEMTP-2012, M S Ramaiah Institute of Technology, Bengaluru, 28-30, May 2012.

Faculty Development Programme Participated

1. Contributed in organizing one day workshop on Artificial Neural Networks and Applications held on March 6th, 2009 organised by Bose -Marconi Club, Dept of Telecommunication Engineering, Dayananda Sagar College of Engineering, Bengaluru.

2. Contributed in conducting four National Project presentation competition.[NPPC] held at A P S College of Engineering, Bengaluru

3. Contributed in conducting National Project presentation competition 2005,(NPPC 2005) as Organizing Secretary, held at A P S College of Engineering, Bengaluru

4. Participated and organized one day workshop on "Space Communication" In Association with AMSAT-INDIA at DSCE Bengaluru on 16th May 2015

Workshop Attended

1. Attended two day workshop on *"Application of 'MATLAB' for Engineering Education",* held during 14th & 15th May 1999 at SSIT, Tumakuru,

2. Attended workshop on *"Model paper setting for IV sem EC/TE",* Visvesvaraya Technological University at PESIT, Bengaluru on 22-04– 2000.

3. Attended workshop on *"Model paper setting for V sem EC/TE",* Visvesvaraya Technological University at PESIT, Bengaluru on 11- 11 – 2000.

4. Attended three day seminar on *" HUMAN RESOURCE DEVELOPMENT "* held during 6th to 8th May 2003 at BMSCE, Bengaluru

5. Attended two-day symposium on *"Recent Advances in Electronics & Communication Engineering"* held on 12th to 13th May2003 at Sir. MVIT, Bengaluru

6. Attended one week workshop on *"PROCESSORS FOR DSP : ARCHITECTURE & TRENDS"* held during 27th to 31st Jan2004 at NMAMIT, NITTE

7. Attended three day National Seminar on *"Recent Trends in Communication Engineering "* held during 26th to 28th   Nov 2004 at Nitte Meenakshi Institute of Technology ,Bengaluru

8. Attended three-day workshop on *"Medical Applications of Signal and Image Processing [MASIP'06]",* held during January 23-25, 2006 at Manipal Institute of Technology, Manipal.

9. Attended one week short term course on *"Recent Trends in Communication Engineering "* held during 20th to 25th   March 2006 at Dr. Ambedkar Institute of Technology, Bengaluru

10. Attended two-day seminar on *"Real time implementation of DSP Algorithms"* held on 23rd and 24th Feb2007 at Vivekananda Institute of Technology. Bengaluru

11. Attended National level conference on *"Recent Advancements in Biomedical Instrumentation"* held on 14th March 2008, at Dayananda Sagar College of Engineering, Bengaluru.

12. Attended two day workshop on *"Advances in Digital Image Processing",* held during January 17th and 18th October 2009 at University Visvesvaraya College of Engineering, K.R. Circle, Bengaluru

13. Completed course on "*Empowered leadership Program*" held during 2007-08 at Dayananda Sagar College of Engineering, Bengaluru.

14. Participated in "International *Conference on Advanced topics for Research in Aerospace Electronics and systems-ARAES, 2009"* Organized by Cambridge Institute of Technology, Bengaluru-560 036 held during 22nd and 23rd Oct 2009.

15. Participated in "Fourth *International Conference on Information Processing"* held during August 6-8, 2010, Bengaluru, organized by The Society of Information Processing, Bengaluru.

16. Participated in "*Fifth International Conference on Information Processing"* held during August 5-7, 2011, Bengaluru, organized by The Society of Information Processing, Bengaluru, Defence Institute of Technology, Pune and University Visvesvaraya College of Engineering, Bengaluru

17. Attended Author workshop on "*How to publish a scientific Journal Article" Conducted by* Springer and Edanz held at Atria Hotel on 6th Feb 2012

18. Participated in "*Sixth International Conference on Information Processing"* held during August2012, Bengaluru, organized by The Society of Information Processing, Bengaluru and University Visvesvaraya College of Engineering, Bengaluru

19. Participated in "*Seventh International Conference on Information Processing"* held during August 10-12, August2013, Bengaluru, organized by The Society of Information Processing, Bengaluru and University Visvesvaraya College of Engineering, Bengaluru

20. Participated in "*Eighth International Conference on Information Processing"* held during August 2014, Bengaluru, organized by The Society of Information Processing, Bengaluru and University Visvesvaraya College of Engineering, Bengaluru

21. Participated in Two day faculty Development program on "Antenna Design and simulation" held at DSCE Bengaluru, on 29th and 30th, September 2014

22. Participated in *"Fifth International Conference on Information Processing"* held during August 5-7, 2011, Bengaluru, organized by The Society of Information Processing, Bengaluru, Defence Institute of Technology, Pune and University Visvesvaraya College of Engineering, Bengaluru

23. Attended Author workshop on *"How to publish a scientific Journal Article" Conducted by* Springer and Edanz held at Atria Hotel on 6th Feb 2012

24. Participated in *"Sixth International Conference on Information Processing"* held during August2012, Bengaluru, organized by The Society of Information Processing, Bengaluru and University Visvesvaraya College of Engineering, Bengaluru

25. Participated in *"Seventh International Conference on Information Processing"* held during August 10-12, August2013, Bengaluru, organized by The Society of Information Processing, Bengaluru and University Visvesvaraya College of Engineering, Bengaluru

26. Participated in *"Eighth International Conference on Information Processing"* held during August 2014, Bengaluru, organized by The Society of Information Processing, Bengaluru and University Visvesvaraya College of Engineering, Bengaluru

27. Participated in Two day faculty Development program on "Antenna Design and simulation" held at DSCE Bengaluru, on 29th and 30th, September 2014

28. Participated and organized one day workshop on "Space Communication" In Association with AMSAT-INDIA at DSCE Bengaluru on 16th May 2015

29. Participated in *"Twelfth International Conference on Information Processing"* held during August 19-21, 2016, Bengaluru, organized by The Society of Information Processing, Bengaluru and University, Visvesvaraya College of Engineering, Bengaluru

30. Participated in Three day workshop on "Research Methodology and Latex" organized by VTU e-Learning Centre, Mysuru during 20-22 December 2016 at Raja Rajeshwari College of Engineering, Bengaluru.

31. Participated in Five day work shop on "Practicing OBE & ICT Tools in Engineering Education, organized by Department of Electronics and Communication Engineering, BMS Institute of Technology, Bengaluru, during 24th to 28th July 2018.

32. Participated in Five day faculty Development program on "Recent trends in Medical Imaging using wavelet Transforms", organized by Department of Electronics and Communication Engineering, St. Joseph Engineering College, Mangaluru during 1st to 5th January 2019.

33. Participated as in *"Fifteenth International Conference on Information Processing" as a Member* held during Dec 20th to 22nd 2019, Bengaluru, organized by Computing Professional Charitable Trust and Department of Computer Science and Engineering, University Visvesvaraya College of Engineering, Bangalore University, Bengaluru