

BOOKS AND PUBLICATIONS

BOOKS PUBLISHED:

1. 8051 Microcontroller: Hardware, Software and Applications, V.Udayashankara and M.S. Mallikarjunaswamy, McGraw-Hill, 2009.
2. Real Time Digital Signal Processing, V.Udayashankara, Prentice Hall India, 2010.
3. Modern Digital Signal Processing-includes signals and systems, Matlab programs, DSP Architecture with Assembly and C programs V.Udayashankara, Prentice Hall India-2012 and 3rd edition is released in 2016 in all countries outside India and it is already rated with 5 Star in USA.

PUBLICATIONS:

International Journals	National Journals	International Conference	National Conference
37	14	39	25

International Journals:

1. G.R.Kiranmayi, V. Udayashankara, Detection of Epilepsy using Discrete Cosine Harmonic Wavelet Transform based features and Neural Network Classifier, International Journal of Biomedical Engineering and Technology. Publisher: INDERSCIENCE
2. G.R.Kiranmayi, V. Udayashankara Neural Network Classifier for the Detection of Epilepsy/Seizure based on Bispectrum features , International Journal of Advanced Research in Engineering and Technology (IJARET) Volume 8, Issue 6, November - December 2017, pp. 121–130.
3. A.S.Raju, V.Udayashankara, “Database evaluation of ECG fingerprint and face multimodal biometric system”, Grenze international journal of computer Theory and Engineering, Vol3, Issue 4, pp-142-151, 2017.
4. Amaresh P Kandagal, V.Udayashankara, "Visual Speech Recognition Based On Lip Movement for Indian Languages", International Journal of Computational Intelligence Research (IJCIR), ISSN 0973-1873 Volume 13, Number 8 (2017), pp. 2029-2041, Impact Factor – 2.7

5. Amaresh P Kandagal,V.Udayashankara, "Speech Corpus Development for Speaker Independent Speech Recognition for Indian Languages", Grenze International Journal of Engineering & Technology (GIJET), ISSN: 2395-5287, 2017.
6. Rathnakara.S and Dr.V.Udayashankara "System Identification in Speech Signal Using Modified Kalman Based Normalized Least Mean Square (NLMS) Algorithm"- IJARCSSE Volume 7, Issue 3, March 2017, PP180-184 ISSN 2277 128X.
7. Rathnakara.S and Dr.V.Udayashankara "Real Time System Identification for Speech Signal Implemented on TMS320C6713" IOSR Journal of VLSI and Signal Processing (IOSR-JVSP) Volume 7, Issue 2, Ver. I (Mar. - Apr. 2017), PP 20-25 ISSN 2319-4197.
8. Rathnakara.S,V Udayashankara. Enhancement of Speech Signal using Improved NLMS Algorithm. Communications on Applied Electronics 6(9): PP-34-37, April 2017 ISSN 2394-4714.
9. Rathnakara.S, V.Udayashankara,"Estimation of Noise in Nonstationary Signals Using Derivative of NLMS Algorithm", International Journal of Image, Graphics and Signal Processing(IJIGSP), Vol.9, No.8, pp.9-16, 2017.DOI: 10.5815/ijigsp.2017.08.02 ISSN 2074-9082.
10. T.Shreekanth, V.Udayashankara and Pavan V.Naidu, "An Efficient Recursive Technique for BrailleDot Extraction in Optical Braille Recognition through Frequency Domain Approach", Advances in Computing, Control and Communication Technology, pp. 107–114, 2016.
11. Megha Gadag and V.Udayashankara, "Generation of English text from scanned Braille document", International Journal of Engineering Science and Computing, Volume 6 Issue No. 4, April 2106.
12. Megha Gadag and V.Udayashankara, "Efficient approach for English Braille to text conversion"English text from scanned Braille document", International Journal of Engineering Science and Computing, Volume 6 Issue No. 4, April 2016.
13. T.Shreekanth and V.Udayashankara, "A Histogram Based Two-Stage Adaptive Character Segmentation for Transcription of Inter-Point Hindi Braille to Text", International Journal of Image and Graphics, World Scientific, Vol.15, No.3, 2015.
14. T.Shreekanth and V.Udayashankara, "A New Research Resource for Optical Recognition of Embossed and Hand-Punched Hindi Devanagari Braille Characters: BHARATI

BRAILLE BANK", International Journal of Image, Graphics and Signal Processing, Vol.7, pp 19-28, 2015.

15. T.Shreekanth and V.Udayashankara, "Duration Modelling Using Neural Networks for Hindi TTS System Considering Position of Syllable in a Word", Computer science Journal,Elsevier, Vol 46, pp.60-67,2015.[doi:10.1016/j.procs.2015.01.056](https://doi.org/10.1016/j.procs.2015.01.056)
16. T.Shreekanth and V.Udayashankara, "An application of Eight Connectivity based Two-pass Connected-Component Labelling technique for double Sided Braille Dot Detection", International Journal of Image Processing, Vol 8(5), 2014, pp. 294-312.
17. T.Shreekanth and V.Udayashankara, "Braille dot extraction for Optical Braille Character Recognition through unsharp masking: A frequency domain filtering approach", International Journal of Recent Trends in Engineering and Technology, ACEEE. July 2014.
18. T.Shreekanth and V.Udayashankara, "An Unit Selection based Hindi Text to Speech Synthesis System Using Syllable as a Basic Unit", Journal of VLSI and Signal Processing (IOSR-JVSP) Volume 4, Issue 4, Ver. II (Jul-Aug. 2014), PP 49-57 e-ISSN: 2319 – 4200, p-ISSN No. : 2319 – 4197.
19. T.Shreekanth and V.Udayashankara, "An Algorithmic approach for double sided Braille dot recognition using image processing Techniques", International Journal of Image processing and Visual Communication, ISSN:2319-9784 , Vol.2 , Issue 5, June 2014.
20. G.R.Kiranmayi and V.Udayashankara, "EEG Subband Analysis using Approximate Entropy for the detection of Epilepsy", IOSR Journal of Computer Engineering, ISSN:2278-8727, Volume 16, Issue 5, 2014.
21. Arunkumar.C, Shreekanth.T and V.Udayashankara," Development of Speech Database for Hindi Text-To-Speech System Considering Syllable as a Basic Unit ", International Journal of Advanced Research in Computer Science and Software Engineering ISSN: 2277 128X, Volume 4, Issue 5, May 2014.
22. T.Shreekanth and V.Udayashankara, "A Review on software algorithms for optical recognition of embossed Braille characters", International Journal of computer applications (0975-8887), Vol.81-No.3, November 2013.

23. Sunitha. S.L., and V. Udayashankara “ Performance enhancement of digital hearing aid by adaptive Walsh Hadamard for sensorineural Hearing impairment ” , IJESC, Vol-4, No2, July-Dec 2012, PP 65-67.
24. Sunitha. S.L., and V. Udayashankara “ Adaptive complex transformation for sensorineural impairment: A practical approach” International journal of Scientific and Engineering research ISSN 2229-5518, Vol 3, Issue 7, July-2012.
25. Sunitha. S.L., and V. Udayashankara “ Practical approach: Adaptive filtering for Sensorineural hearing impairment” International journal of advanced biotechnology and research ISSN 0976-2612, Vol 2, Issue 1, 2011, pp 183-189.
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27. Sunitha S.L. and V.Udayashankara, Fast recursive DCT-LMS speech enhancement for performance enhancement of Digital Hearing Aid, International Journal of computing and applications, Page no. 65-76, Vol 1(1), June 2006.
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29. Sunitha S.L. and V.Udayashankara, Fast Factored DCT-LMS Speech Enhancement for Performance Enhancement of Digital Hearing Aid . Transactions of Engineering Computing and Technology, page no.253-257, Vol.10, Dec 2005.
30. Sunitha S.L. and V.Udayashankara, DHT-LMS Algorithm For Sensorineural Loss Patients, Transactions of Engineering ,Computing and Technology, page no. 249-252, Vol. 10, Dec 2005.
31. S.G. Hiremath and V.Udayashankara, Neural Network Model for Seizure Activities of Brain (Characterization of Glut-1 Deficiency Syndrome), International Journal of Information Technology (International Academy of Sciences), page no. 125-131, Vol. 2, No.2, 2005.
32. H.N.Suresh and V.Udayashankara, A new Technique for Multi resolution Characterization of epileptic spikes in EEG, International Journal of Information technology, Page no. 42-45, Vol. 2, 2005.

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34. H.N. Suresh and V. Udayashankara, Real time analysis of EEG signals using Neural Network and Wavelet Transform, International Journal of Computers and Applications, Aug 2006. (journals@actpress.com, Paper No. 202-1963).
35. Suresh D.S. and V.Udayashankara, Web enabled centralized hub for wireless communication using MCF-5272-32 bit Motorola Microcontroller, International Journal of Computer systems science and Engineering.
36. H.N.Suresh and V.Udayashankara, Real time analysis of EEG signal using neural network and wavelet transform, International Journal of Computers and applications, Aug 2006.
37. V.Udayashankara and A.P. Shivaprasad, Digital Hearing Aid - A Review, International Journal on Medical Physics and Biomedical Engineering, Page no. 121-126, Brazil, 1995.
38. V.Udayashankara and A.P.Shivaprasad, The Application of Voltera LMS Adaptive Filtering to Speech Enhancement for the Hearing Impaired, International Journal on Speech Communication And Technology, Madrid, Spain, Page no. 1871-74, 1996.

National Journals:

1. Suresh D.S. and V.Udayashankara, Hardware security for steganography, Journal on Engineering and Technology, Vol.2. No.2, Page no. 17-22, Nov-Jan 2007.
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3. Suresh D.S. and V. Udayashankara, Web Enabled Centralized HUB for Wireless communication using MCF-5272 Motorola Microcontroller, Journal on Software Engineering Vol.1, No.2, Page no. 86-95, Oct. to Dec. 2006.

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8. H. N. Suresh and V.Udayashankara, Multiresolution characterization of epileptic spikes in EEG, Bio-Informatics Journal, India, Page no. 29–33, July-Sep 2005.
9. Sunitha S.L. and V.Udayashankara, FFT based DCT-LMS speech enhancement technique for performance enhancement of Digital Hearing Aid, Journal of Computer Science, 2006 .
10. Sunitha S.L. and V.Udayashankara, Discrete Walsh Hadamard (Sequency ordered) LMS Speech enhancement algorithm for performance enhancement of digital hearing aid, IJIST, Nov 2006.
11. Suresh D.S. and V Udayashankara, Hardware Security for Steganography, Indian Journal of Information Science and Technology.
12. Suresh D.S. and V Udayashankara, Finger print Enabled Image Encryption, Journal on Engineering and Technology.
13. Suresh D.S. and V Udayashankara, External Hardware security for steganography, Nov – Jan 2006, Journal on Engineering and Technology.
14. V. Udayashankara and A.P. Shivaprasad, A Digital Filter bank Hearing Aid Design and Implementation, Journal of the Instrument Society, India, P. 96 – 100, Vol. 24, 1994.

International Conferences:

1. A S Raju and V.Udayashankara “ Multimodal Biometric Database and its privacy protection”, International conference on Signal, Image processing Communication and Automation-(ICSIPCA), McGraw Hill Education, 557-564, 2017.
2. Amaresh P Kandagal and V.Udayashankara, "Speech Corpus Development for Speaker Independent Speech Recognition for Indian Languages", International Conference on Signal, Image Processing Communication and Automation (ICSIPCA- 2017), JSS Academy of Technical Education, 6th &7th July 2017.
3. Amaresh P Kandagal andV.Udayashankara, Anusuya M.A."Silent Speech Recognition", international conference on cognitive computing and information processing ,Springer,2017.
4. Pradeep M N and Udayashankara V, “Survey of Spatial Audio Enhancement for Digital Hearing Aid”, International Conference on Signal, Image processing, Communication and Automation, JSS Academy of Technical Education, 6th &7th July 2017.
5. A S Raju and Udayashankara V “Database evaluation of ECG, Finger print and Face Multimodal Biometric system”, International Conference on Signal, Image processing, Communication and Automation, JSS Academy of Technical Education, 6th &7th July 2017.
6. Vijay kumar and V.Udayashankara, “Smart Real-Time Health care Monitoring and Tracking system based on IOT”, International Conference on Signal, Image processing, Communication and Automation, JSS Academy of Technical Education, 6th &7th July 2017.
7. V.Udayashankara and Swapna Havalgi, “ Speech Therapy System to Kannada Language”, Second International Conference on Cognitive Computing & Information Processing, Aug 12-13, 2016, SJCE, Mysore.
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11. Biometric person authentication: A review, A S Raju and V.Udayashankara, International Conference on Contemporary Computing and Informatics (IC3I), 27-29, Nov 2014.
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13. Mrs. G.R.Kiranmayi, Dr.V.Udayashankara, Neural Network classifier for the detection of Epilepsy, proceedings of the International IEEE Conference on Circuits, controls and communications ,CCUBE 2013, 27 - 28 December.
14. Gururaj B Gour and V.Udayashankara, A New Diagnostic Approach: Voice Analysis of Thyroid Patients after Thyroid Surgery without Laryngeal Nerve Injury, International Conference on Multimedia Processing, Communication and Information Technology-MPCIT-2013, JNNCE, Shimoga, (ISBN 978-81-910691-6-7), 19th to 21st December 2013.
15. Shreeshayana and Dr.V.Udayashankara, Glioma multiforme brain tumor segmentation using soft computing techniques with integrated radiology study maker, International conference on Electronics and communication engineering, 28th April-2013, Bengaluru, ISBN 978-93-83060-04-7
16. Rathnakara.S and Dr.V.Udayashankara "Speech Enhancement using Normalized LMS algorithm" International conference on Communication,VLSI and Signal Processing, ICCVSP2013, SIT Tumkur 20-22nd Feb'2013.
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2. Gururaj B. Gour and V. Udayashankara, Investigation of objective voice changes after thyroid surgery without laryngeal nerve injury, National Conference on signal processing and communication R.V.C.E. Bangalore., 17-18 May 2012.
3. Avinash K.R. and V. Udayashankara, Identification of normal and Parkinson's patients based on voice analysis using hybrid approach, National Conference on signal processing and communication R.V.C.E. Bangalore., 17-18 May 2012.
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5. Rathnakara.S and V. Udayashankara, Noise Estimation for Speech Enhancement, National Conference on Computational Control systems and Optimization, Dr.A.I.T., 12-13 May 2011.
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11. Ravishankar chinnur and V.Udayashankara, Automation of Nuchal translucency thickness measurement from fetal images using canny filters, National conference on radar technology and signal processing techniques, Sri Venkateswara university, Tirupiti, India, 24th to 25th July 2006.
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13. HN Suresh and V.Udayashankara, Anew approach to adaptive separation of background activity and transient in epileptic EEG using mathematical morphology and wavelet transforms, National Conference on Intelligent Instrumentation, DSCE & Instrument Society of India, Bangalore, Page no. 12-15, April 7-8th 2006.
14. Sunitha and V.Udayashankara, DFT-LMS Speech Enhancement For Sensorineural Loss Patients, National Conference on Bioinformatics Computing, NCBC'05, March 18-19, 2005.
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- 18 S.G. Hiremath and V Udayashankara, Networks of Hippocampal Interneurons: A Model for gamma and theta oscillations, National conference on electronics circuits & communication systems, Thapar Institute of Engg. & Technology, Patiala, 2004.
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- 21 S.G. Hiremath and V Udayashankara, Chaotic Model for Inter neurons, National Conference on Intelligent Instrumentation, Dayananda Sagar College of Engineering Bangalore, India.
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- 23 HN Suresh and V.Udayashankara, Processing of EEG Signal using Neural Network based adaptive filter, National conference on Bio-Medical Engineering (NCBME 2004) Vishakapatnam Dept of Electronics and instrumentation & Electronics and Communication. Associated with BME Society of India, 48-50, December 23rd to 25th 2004.
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