

Department of Instrumentation Technology

Publications

Dr.V.Udayashankara

Publications:

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.
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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.

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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.
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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",

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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.
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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 Charecterization of epileptic spikes in EEG, International Journal of Information technology, Page no. 42-45, Vol. 2, 2005.
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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.
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National Journals:

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2. Sunitha S.L. and V. Udayashankara, Fast factored DCT-LMS speech enhancement for permormance enhancement of digital hearing aid, Industrial Engineering Journal , Mumbai, Page no. 37-41, Feb. 2007.
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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.
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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.
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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,

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 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.
 8. T.Shreekanth and V.udayashankara, "An Adaptive Approach for Optical Recognition of Inter-Point Hindi Devanagari Braille and its Transcription to Text", Advances in Computer science Research, Atlantis Press, International Seminar on Computation, Communication and Control, Sydney, Australia, pp.32-36, Mar 2015. doi:10.2991/is3c-15.2015.
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 10. Amaresh P Kandagal and V.Udayashankara, Automatic bimodal audiovisual speech recognition: A review, International Conference on Contemporary Computing and Informatics (IC3I), , 940-945, 27-29, Nov 2014.
 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

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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.Udayashanakara “Speech Enhancement using Normalized LMS algorithm” International conference on Communication,VLSI and Signal Processing, ICCVSP2013, SIT Tumkur 20-22nd Feb’2013.
17. Gururaj B Gour and V.Udayashankara, Investigation of voice of Thyroid patients for the development of noninvasive diagnostic tool, ICETIT, VTU, Belgaum, Oct, 2012.
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20. Shiva kumar C. and V.Udayashankara, Kannada digits speech recognition for permanent deaf patients, International conference on current trends in Engineering & Management, (ICCTEM), VVCE, Mysore, July 12-14, 2012.
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36. V.Udayashankara and Mudduveerappa, Thearapeutic Robot, North Sea Conference on Biomedical Engg., Nov., 1990.
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National Conferences:

1. Gururaj B. Gour and V. Udayashankara, Investigation of objective voice changes after thyroid surgery without laryngeal nerve injury, National Conference on communication & soft computing, NCCSC-2012, KSIT, Bangalore 9th Aug 2012.
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.
4. Jyothi B.and V. Udayashankara, Automated analysis of Brainstem evoked response using wavelets and neural networks, National Conference on Recent trends in communication technology, Tumkur university, 12-13 Jan 2012 (Best oral presentation).

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.
6. Avinash K.R. and V. Udayashankara, Voice Disorder Identification for classification of Normal and Parkinson's patients using hybrid approach, National Conference on Computational Control systems and Optimization, Dr.A.I.T., 12-13 May 2011.
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14. Sunitha and V.Udayashankara, DFT-LMS Speech Enhancement For Sensorineural Loss Patients, National Conference on Bioinformatics Computing, NCBC'05, March 18-19, 2005.
15. Sunitha and V.Udayashankara, DCT-LMS Speech Enhancement For Performance

- Enhancement of Hearing Aid, , National conference on Signal processing, Communication and Control System, (SPCCN01), July 1-6, 2005.
16. Suresh D.S. and V.Udayashankara, "Fingerprint Recognition & Matching using Minutiae technique and Artificial Neural Networks, National Conference on advances in Electronics and Telecommunication engineering, Feb 25th –26th , 2005.
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Publications

International Journals

1. Pavana S, Shailaja K, “Diabetes Mellitus Detection Based On Facial Texture Feature Using The GLCM”, International Research Journal of Engineering and Technology, Vol. 4, No.6, June 2017, pp 921-924.
2. Mohammed Ammar khateeb & Shailaja K, “Automatic detection of blood vessels in retinal images using Kirsch’s templates and region growing”, International journal for scientific research and development, Volume 3, July 2015.
3. Shashidhara & Shailaja K, “Biometric Authentication System based on hand vein patterns”, International journal for scientific research and development, Volume 3, July 2015.
4. Lokesh B, Shailaja K & Nanda S, “Segmentation and Classification of Breast Lesions in Ultrasound Images”, International Journal of scientific & Technology Research, Volume 3, Issue 06, June 2014.
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2. Vamshadeepa , Shailaja K and Nanda S , “Texture Features for Classification of Liver Ultrasonic Images”, International conference on “Current Trends in Engineering and Management ” at Vidyavardhaka College of Engineering, Mysore on 12th and 14th July 2012.
3. Shailaja K, Balaji B, Umamaheswari B, “ Variable gain hysteresis Controller for tight voltage regulation and unity power factor control of a Half Bridge rectifier for wide variation of the input and output voltage” 6th international conference on trends industrial measurements and automation (TIMA-2009), Madras Institute of Technology, Anna University, Chennai, January 4th -6th 2009.

National Conferences

1. Ammar and Shailaja K “Automatic detection of retinal blood vessels using edge operators”, national conference on control system and optimisation (CCSO 2015), Dr.AIT, Bengaluru, 23rd to 24th April 2015.
2. Shashidhara and Shailaja K “Hand ‘dorsal-vein’ pattern recognition system”, national conference on control system and optimisation (CCSO 2015)” , Dr.AIT, Bengaluru, 23rd to 24th April 2015.
3. Ms Sherin Jaji M, Ms. K. Shailaj “Brain Tumor Segmentation using Fuzzy Clustering”, National conference on Computational Control Systems and Optimization -2013. ISBN 978-93-82338-56-7.Volume 1.May 2013.

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6. Shailaja K & Umamaheswari B, “ Control of transformerless rectifiers with automatic adjustment of loop gain” in National conference on computational control system and optimaization, at Dr. AIT Bangalore May 12th – 13th 2011.
7. Karthik M C & Shailaja K “ Hepatic Tumour detection using ultrasound Imaging and FEA” in National conference on computational control system and optimaization, Dr. AIT Bangalore May 12th – 13th 2011.
8. Shailaja K, Manikandan P & Umamaheswari B, “ Modelling and control of transformerless single phase photovoltaic inverter” NCIS -2010, Manipal centre for information science, Manipal University, 2010

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