

Faculty Profile

Dr. A. Kethsy Prabavathy, M.E., Ph.D

Assistant Professor,

Department of Computer Science and Engineering

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Academic Background

Degree	University	Year
Ph.D	Anna University, Chennai	2018
M.E	K.S. Rangasamy College of Technology/ Anna University, Chennai	2008
B.E	Karunya Institute of Technology/ Bharathiyar University, Coimbatore	2004

Courses Taught

Under Graduate:

- Digital Integrated Circuits
- Microprocessor and Interfacing
- Soft Computing
- Software Engineering
- Web Services
- UNIX Architecture
- Object Oriented Analysis and Design
- Image Processing
- Operating System
- Object Oriented Software Engineering
- Requirement Engineering
- Programming for Problem Solving

Post Graduate:

- Advanced Operating System

Research Interests

- Image Segmentation
- Video Segmentation
- Shot Boundary Detection in video
- Object Based Video Retrieval

Most recent Publications

- Veena Ramakrishnan, A. Kethsy Prabhavathy, J. Devi Shree, “A Survey on Vehicle Detection Techniques in Aerial Surveillance”, International Journal of Computer Applications, Vol. 55, No.18, pp. 43-47, October 2012. DOI=10.1.1.248.310
- Anu Rachel Abraham, A. Kethsy Prabhavathy, J. Devi Shree, “A Survey on Video Inpainting”, International Journal of Computer Applications, Vol. 55, No. 9, pp. 43-47, October 2012. DOI: 10.5120/8923-2761
- Mrs. Kethsy Prabavathy, J. Sophia Joycy, “Survey on Automatic Segmentation of Relevant Textures in Agricultural Images”, CiiT International Journal of Digital Image Processing, Vol. 4, No. 3, pp. 123-129, Feb. 2012.
- Anna Geomi. George, Kethsy Prabavathy, “A Survey on Different Approaches used in Image Quality Assessment”, International Journal of Emerging Technology and Advanced Engineering, Vol. 3, Issue 2, pp. 197-203, Feb. 2013. DOI=10.1.1.413.9053
- Anna Geomi. George, Kethsy Prabavathy, “Blind Image Quality Assessment for Highly Distorted Images using Ciqe Algorithm”, International Journal of Engineering Research and Technology, Vol. 2, Issue 3, pp. 1-5, March 2013.
- Elizabeth Sama Sam, A. Kethsy Prabhavathy, J. Devi Shree, “A Survey on Outdoor Scene Image Segmentation”, International Journal of Computer Applications, Vol. 55, No. 9, pp. 5-9, October 2012. DOI: 10.5120/8781-2752
- A. Kethsy Prabhavathy , J. Devi Shree and K. Saranya, “Survey on a New Approach for Video Cut Detection Using Fuzzy Logic Control”, International Journal of Engineering Research & Technology (IJERT), Vol. 2 Issue 12, December – 2013
- Asirvatham Kethsy Prabavathy & J. Devi Shree, ‘Gradual transition detection in shot boundary using gradual curve point’, Journal of National Science Foundation of Sri Lanka, 2018 46 (3): 393 – 398. DOI: <http://dx.doi.org/10.4038/jnsfsr.v46i3.8491> [Impact Factor: 0.42]

- Kethsy Prabavathy A & J. Devi Shree, ‘Histogram difference with Fuzzy rule base modeling for gradual shot boundary detection in video cloud applications’, International Journal of Cluster Computing, Springer Publication, Published online on 07 October 2017. DOI 10.1007/s10586-017-1201-0 [Impact Factor: 2.040]
- LL Lukose, N Joseph, K Prabavathy, “Graph Cuts Method for Unsupervised Multiphase Segmentation”, International Journal of Digital Image Processing, Vol 3 No 5 (2011) 287-290.
- N Joseph, LL Lukose, K Prabavathy, “Semi-Supervised Orthogonal Discriminant Analysis with Biased Discriminant Euclidean Algorithm”, International Journal of Digital Image Processing, Vol 3 No 5 (2011) 291-294.
- Anna Geomi. George, Kethsy Prabavathy, “Blind Image Quality Assessment for Highly Distorted Images using Ciqe Algorithm”, International Journal of Engineering Research and Technology, Vol. 2, Issue 3, pp. 1-5, March 2013.
- Elizabeth Sama Sam, A. Kethsy Prabhavathy, J. Devi Shree, “A Survey on Outdoor Scene Image Segmentation”, International Journal of Computer Applications, Vol. 55, No. 9, pp. 5-9, October 2012. DOI: 10.5120/8781-2752
- A. Kethsy Prabhavathy , J. Devi Shree and K. Saranya, “Survey on a New Approach for Video Cut Detection Using Fuzzy Logic Control”, International Journal of Engineering Research & Technology (IJERT), Vol. 2 Issue 12, December – 2013
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- LL Lukose, N Joseph, K Prabavathy, “Graph Cuts Method for Unsupervised Multiphase Segmentation”, International Journal of Digital Image Processing, Vol 3 No 5 (2011) 287-290.
- N Joseph, LL Lukose, K Prabavathy, “Semi-Supervised Orthogonal Discriminant Analysis with Biased Discriminant Euclidean Algorithm”, International Journal of Digital Image Processing, Vol 3 No 5 (2011) 291-294.
- Mrs. M.Mythily, Dr. A.Kethsy Prabavathy, Mr. S.Iwin Thanakumar Joseph, “A Design Pattern Structure Specification to Extract Statistical Report”, Volume-8 Issue-10, August 2019, Regular Issue, Blue Eyes Intelligence Engineering and Sciences

Engineering and Sciences Publication - BEIESP, 8, 3066-3070, Aug 2019, 10.35940/ijitee.j9508.0881019, .2, 0.00, 0

- Mrs.J.A. M.Rexie, Mrs. M.Mythily, Dr. Kumudha Raimond, Dr. A.Kethsy Prabavathy, “NGS Short Read Alignment Algorithms and the role of Big Data and Cloud Computing”, International Journal of Innovative Technology and Exploring Engineering, Blue Eyes Intelligence Engineering and Sciences Engineering and Sciences Publication - BEIESP, 8, 967-971, Oct 2019, 10.35940/ijitee.i8001.078919, 0, 0.00, 0.

Projects Guided

Under Graduate:

- Learning & Matching of Dynamic Shape manifolds for Human Action Recognition.
- Honey Pot.
- Online Product Catalog.
- Copyright Protection of Web Application through Watermarking.
- Billing Telecom Applications
- Automation of HR process – Payroll, work time, HR
- Automation of HR process – Training, Requirement
- Binary Segmentation for Cursive Handwritten Words
- Adaptive Human Motion Analysis and Prediction

Post Graduate:

- Denoising in Video Sequence
- Image Segmentation for Minimizing the Mutual Information Loss.
- A Robust Image Segmentation using Edge Flow Vectors.
- Content-Based Image Retrieval using Biased Discriminant Euclidean Algorithm.
- Brute Force Numerical Algorithm for Unsupervised Multiphase Segmentation.
- Automatic segmentation of relevant textures in agricultural images
- Generalized Segmentation of Various Sports Videos.
- Blind Image Quality Assessment from NSS to Perceptual Quality.
- Airborne Moving Vehicle Detection using Bayesian Networks.
- Video In-painting using Posture Sequence Estimation.

- Image Segmentation of Outdoor Scenes using Background Recognition and Perceptual Organization

Memberships in Professional societies

- Life time membership in Computer Society of India (CSI)