

**General:**

Name : S.Padmavathi  
Staff ID : 1351  
Designation : Asst. Professor  
Department : IT  
Date of Joining : 3-1-2001  
Email : s\_padmavathi@ettimadai.amrita.edu  
Areas of interest : Digital Image Processing, Data Structures, Computer Graphics

**Education:**

M.E. (CSE) From Govt. College of Technology, Coimbatore

Doing Ph.D : Title : Digital Image Inpainting

Advisor : Dr. K.P. Soman

Expected date of completion: May 2009

**Teaching:**

a) Theory handled for **Under Graduate** students:

Under Bharathiar University:

COBOL, 2001  
Advanced C and Data Structures, 2001  
Data Structures-2, 2001  
Operating Systems, 2002  
Multimedia systems, 2003  
C Programming (M.Sc.-SE), 2001  
Object Oriented Programming (M.Sc.-SE), 2003

Under Anna University:

Data Structures and Algorithms, 2002  
Data Mining and Warehousing, 2004  
Digital Image Processing, 2004  
Principles of Programming Language(M.Sc.-SE), 2006

Under Amrita University:

CS101- Computer Programming,2004  
IT427-Digital Image Processing & Analysis,2006,2008  
EC307-Introduction to Signal Processing, 2007  
IT328-Analysis Of Algorithms,2007

b) Subjects handled for **Post Graduate** students:

CS650-Computer Graphics (M.Tech. – CVIP)-2004,2005

c)Labs:

C Programming Lab, Object oriented Programming Lab, Data structures Lab, Windows Programming Lab, Operating systems Lab, Neural Network lab, Digital Image Processing Lab, Digital Signal Processing Lab, Computer Graphics Lab and Analysis of Algorithms Lab

## **Research & Projects :**

### **Research projects:**

Title: "Development of Image Fusion Techniques and Measurement methods to Assess the Quality of Fusion"

P.I: Dr. K.P. Soman, Funding Agency: DRDO

### **MTech. Projects:**

1. "Volume Visualization and Mesh Generation of Tomographic Images", Ajo Thomas, 2005.
2. "Vision Based Human- Computer Interaction using Gesture Recognition", Aravindh Chinnasamy, 2005.
3. "Fabric Defect Detection using Steerable Pyramids", Mythili, 2006
4. "Image Compression Through Inpainting and Texture Filling", Kiran Babu, 2006

### **BTech. Projects:**

1. "Wavelet based Image Compression Using EZW algorithm", A.Shivashankari, P.Sumithapandi, J.Vidhya Praba, R.Vinupradha , 2004.
2. "Tracking of moving objects in a video", S.Aravinthkumar, H.Kumararaman, S.Madankumar,P.Parameshwaran, K.S.Praveenkumar,2004.
3. "Mosaicking", R.Janagaraj, K.Jayashree, C.Jayendran, P.Kulanthaivel, 2004.
4. "Automated Detector of Vertebral Injuries Protected on MRI", V.Deepa, K.Mahalakshmi, N.Padmavathi, R.Preetha, S.Ashalatha, 2004
5. "Number Plate reading for Indian Vehicles using coding Technique", P.Agilan, N.Karparajan, K.Kopperundevan, S.Koteeswaran,2005
6. "Face Recognition using PCA", K.Ramesh, K.Sarayoodharan, N. Sathyakumar, C.Selvaraj, H.Senthilkumar, R.Prabu, 2005
7. "Analysis of Exemplar based Image Inpainting", S.Prema, C.Radhika, G.Saranya, K.S.Soundarya, 2006. (**Won the Best Project award in IT**)
8. "Parallel Model of Saliency Based Visual Attention", Arunachalam Madhuri, Divya Rajendren, T.Ialvarasi, V.Poornima Devi,2006.
9. "Gait Signature Extraction",M.Anand, D.Prasanna, K.Prasad, 2006.
10. "Image Steganography ", Abhinav Bhargava, Adya Shankar, Akil V.Laxman, Avijit Das, 2007.
11. "Audio Steganography", T.Nithyanandhi, D.Soundhria, A.Sudha, S.Suganya, P.Indumathi,2007
12. "Face recognition using FLD", M.Sivaramakrishnan, G.Vijay, V.Viswanath, S.Muruhanand,2007.
13. "Age Classification from facial Images", V.Vigneshwar, K.Raghuram,G.Sona, Brindha, 2008.
14. "Pose invariant Face Recognition without Geometric Constraints", S.Gowrisangeetha, R.Niranjana, P.Preethy, 2008.

### **M.Sc. Projects:**

1. "Managing Document Flow in Medical Transcription", K.Aravind kumar, 2004.
2. "Parallel Implementation of MPEG-4 Encryption over a Cluster of Workstations", R.Ramanathan, 2005.
3. "Endoscopy Film Viewer & Abnormality Detection Tool" - Suthiksha, 2005
4. "Share Accounting system"-Akila, 2007

**Activities:****Awards and Recognitions:**

Chaired a UG Session in “International Conference on Advanced Communication Systems”, ICACS-2007, Organized by Govt. College of Technology, Coimbatore.

**Membership of Professional bodies:**

Life Member of ISTE, Member of IETE

**Department:**

1. Board Member for UG Syllabus Committee.
2. Project Review Committee Member for the Image Processing Group, 2006, 2007.
3. Course Mentor for
  - a. Computer Programming (IT101 & IT181)- 2005,2006,2008(Odd semester)
  - b. Introduction to Signal Processing (EC307 & EC393)- 2006-07(Even Semester)
  - c. Digital Image Processing and Analysis(IT427 & IT493)- 2006(Odd Semester)
  - d. Computer Graphics- 2008

**Conferences/ Workshops/ Seminars****a) As Organizer**

1. STTP on “Introduction to Bioinformatic Algorithms and their Parallel Implementation”, Nov. 2001.
2. National Level Technical Symposium “Convergence”,2002, 2003.
3. GENESIS 06 – Online Project Contest- October 2006
4. ACM International Collegiate Programming Contest- December 2006.
5. AICTE Sponsored National Seminar on “Mobile & Network Security and Cryptographic Protocols”- March 23 and 24, 2007.

**b) As Participant:**

1. STTP on “*Wavelet Based Computer Graphics and Image Processing*”, from 20 to 31 January 2003, Organized by Amrita Institute of TECnology, Coimbatore.
2. Seminar on “*Remote Sensing and Processing of Satellite Images*”, on 6, 7 November 2003, Organized by Kongu Engineering College, Coimbatore.
3. Seminar on “*Computer Cognition & Recognition*”, from 17 to 20 November 2003, Organized by SriKrishna College of Technology, Coimbatore.
4. Seminar on “*Enterprise Web Services*” on 10<sup>th</sup> October 2003, organized by SriHari Techsoft, Coimbatore.
5. Workshop on “*Genetic Algorithm for Network Traffic Scheduling*” from 17 -30 November 2003, Organized by Government College of Technology, Coimbatore.
6. Seminar on “*Dot Net Technologies*”, 10<sup>th</sup> August 2004, organized by Techmedia, Chennai.
7. “*Indian Conference on Computer Vision, Graphics and Image Processing*” from 16 to18 December 2004, Organized by Indian Statistical Institute, Kolkatta.

8. Seminar on “*Creating Entrepreneurs for growth in Emerging Industry*”, on 27 February 2007, organized by Confederation of Indian IT Center, Coimbatore.
9. Workshop on “*Algorithms, Tutored Video Instruction*” from 30 June to 4 July 2008, Organized by Indo US Collaboration for Engineering Education, Infosys Technologies, Mysore.
10. Faculty Training Program in “*Open Solaris*”, December 2007, Sun Microsystems.