

LIST OF PROJECTS FOR SPRING 2009 – Image Processing with Applications

The projects include: survey of the existing literature; description of the theory; algorithm; C++ Java or C sharp implementation of the algorithm; experiments, derived conclusions. **An input** to the program is: a 24 bit .bmp or any other image format; data and parameters needed by the particular algorithm. The tool must work with different images. **Output:** the output image and/or image segments, the run time.

Deadline for project submission April 21,2008

Project 1. Noise reduction filters: Geometric, Harmonic, Contra-harmonic.

Team: Mahesh Arvapalli
HariKrishna Vemuri
Charles P Thaluri

Project 2. Noise reduction filters: Order statistics- Median, Max and Min, mid point.

Team: Santosh Kaparathi
Shiva Kumar Sudula
Naresh Erna

Project 3. Gabor filters to extract global and local features.

Team: Four students;

Project 4. Texture- Statistical (and/or structural) approach, measure, extraction.

Team: Mithila Rani Pola
Divya reddy Bobbali
Abhinay Sabbani
Rajesh Kumar Gunda

Project 5. Study and code an algorithm to determine concavities using the exact solution of the active convex hull model.

Team: KARTHIK USHKALA
PRAVEEN REDDY NALLA

Project 6. IMAGE MORPHING - Feature based metamorphism method.

Team: Vikranth Babu Samidla,
Uday Kiran,
Santosh.

Project 7. 2D Discrete Laplas to transform an image from space to frequency domain.

Team: William Pleasant
Bishnu Pathek