



# OutLine:

Abstract
Edge Detection
Design Gui
Conclusion
REFERENCES



#### Edge detection :

- Edge detection has vital role in detecting shapes in an image. This process significantly reduces the amount of data in the image, Goal of the edge detection is to detect the edges of the regions with a color sharp color difference in a picture
- Sobel Operator
- Robert's cross operator
- Prewitt's operator
- 4) LOG
  - Canny Edge Detection Algorithm



# Design Gui :

- Stands Graphical user interface How is this useful?
- . Visually interaction with data is often similar and more intuitive
- E. Faster manipulation of data
- 3. Easy to learn













### **Conclusions:**

- Performance of edge detection technique depend on threshold. The best threshold is between[0.1 0.3]
- The result remain same when threshold greater than 0.3 for Image of Rice.
- The visual comparison of the result and the best result obtain by Mean square error show that the best result obtain by canny edge detection.

# **REFERENCES:**

 Gonzalez , R.C. and Woods, R.E (1992) Digital Image Processing, 3rd Edition edn., America: Tom Robbins.
Canny, J. f. (1983) "Finding Edge and lines in Images", MIT Artificial Intelligence Laboratory, M.Sc. Thesis, Massachusetts Institute of Technology.
Pratt, W. K. (1978) Digital Image Processing, A Wiley-Interscience Publication by John Wiley & Sons, Inc.
Cleve Moler, Chief Mathematician (2012) mathworks, Available at: http://www.mathworks.com (Accessed: 3 july 2002).

6/16/2017

1
6
Y
12
1

# Thank you