Abstract

A new comparison of SUSAN and Sobel edge detection for MRI images feature extraction is proposed in this paper. Preprocessing algorithms are important in MRI feature extraction since they provide the necessary data in the best task. One of these algorithms is edge detection. We introduce two common edge detection algorithms which are SUSAN and Sobel, and then we compare them and explain their properties according to MRI feature extraction.
application. By means of experimental results we have made a useful guide for researchers to choose Sobel or SUSAN edge detection in their special MRI feature extraction problem.

Reference

- Pratt W.K., "Digital image processing", A Wiley Interscience Publication, 19991.

Index Terms

Computer Science

Ubiquitous Computing

Key words

MRI

SUSAN

Sobel