

A Project Report On
RECOGNITION OF OSTEOPOROSIS THROUGH CT
IMAGES

[Karnataka State Council for Science and Technology
(K. S. C. S. T) sponsored project for 2013-14]

Submitted to



VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELGAUM- 590014.

in partial fulfillment of the requirement for the award of the degree of
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in
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2013-2014

ABSTRACT

Image processing has a very big potential to do virtually anything. This project comes to the extent of development details on Recognition of osteoporosis through CT images. The objective of the recognition of osteoporosis is to identify and distinguish between a normal bone image and osteoporotic bone image with its case as severe or non-severe.

Osteoporosis is due to the following two phenomena: a reduction in bone mass and a degradation of the micro architecture of bone tissue. Osteoporosis is a disease in which the quality of bone is reduced, leading to weakness of the skeleton and increased risk of fracture and change is observed in micro architecture. In this project we propose a methodology to build a system to identify the normal bone image and affected bone image with the case severe or non severe. We use contrast feature of the grey level co-occurrence matrix and apply thresholding to detect the normal or osteoporotic bone image.