



Sudan University of Science & Technology
College of Graduate Studies



Characterization of Diffuse Liver Diseases using Ultrasonography and Texture Analysis

توصيف أمراض الكبد الإنتشارية باستخدام الموجات
فوق الصوتية والتحليل النسيجي

A Thesis Submitted for the Requirements of **PhD** Degree
in Medical Diagnostic Ultrasound

By

Babiker Abd Elwahab Awad Alla Awad Elseed

Supervisor

Dr. Mohammed Elfadil Mohammed Gar Elnabi

Associate Professor

Co-Supervisor

Dr: Asma Ibrahim Ahmed Elamin

Assistant Professor