بسم الله الرحمن الرحيم

Sudan University of Science and Technology College of Graduate Studies

Design of Adaptive Power System Stabilizer for Damping Power System Oscillations

تصميم منظم قدرة تكيفي لإخماد تذبذبات نظام القدرة

A Thesis Submitted in Fulfillment of the Requirements for the Degree of Doctor of Philosophy in Electrical Engineering

Prepared by

Ahmed Mohammed Ishag Mohammed

(**B.Sc.**, **M.Sc.**)

Supervised by

Dr. Eisa Bashier Mohammed

May,2017