

Sudan University Of Science And Technology College of Graduate Studies



Nonholonomic Mechanics and Control on Dynamical Systems

الميكانيكا غير التحليلية والتحكم علي الأنظمة الديناميكية

A Thesis submitted in Fulfillment Requirements for the Degree of Ph.D in Mathematics

By:

Mutaz Mohamed Abbas Ali

Supervisor:

Prof. Mohamed Ali Bashir

<u>2019</u>