



بسم الله الرحمن الرحيم

**Sudan University Of Science And Technology**

# **Brain Tumor Detection And Classification From Mr Images Using Artificial Neural Net Works**

**كشف وتصنيف ورم الدماغ من صور الرنين المغناطيسي باستخدام  
الشبكات العصبية الاصطناعية**

A Thesis Submitted In Partial Fulfillment of the Requirements for the  
Degree of DOCTOR OF PHILOSOPHY in BIOMEDICAL  
ENGINEERING

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**August 2018**