

**Sudan University of Science and Technology**

**College of Engineering**

**School of Electronics Engineering**

**Communication Department**



**Performance Evaluation of Pico Cell Range  
Expansion in LTE-Advanced Heterogeneous  
Networks**

**تقييم أداء توسيع نطاق خلية البيكو في شبكات التطور طويل الأمد  
المتقدم غير المتجانسة**

A Research Submitted in Partial fulfillment for the Requirements of  
The Degree of B.Sc. (Honors) in Electronics Engineering

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