

Dedication

**Dedicated with deepest love to: My beloved father, mother.
My dearest friends for being my side whenever I need them**

ACKNOWLEDGEMENT

Firstly, I would like to thank Allah for his firm hands in guiding me in the course of completing this Research .it is his grace and mercy that I am able to embark this Research.

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Abstract

Because of the rapid development in the Technology Revolution and the new applications resulting from the use of SCADA in various areas of scientific and practical. We also believe that as SCADA usage is use by many company's in everyday life. In this sense the Research and formed the idea came to offer new enhancement possibilities for the use of mobile Phone or PC, taking advantage of developments in the IP through the Mobile Network and had this idea to solve the problem of movement from one place to another where person can control his system by mobile Terminal after that the human did not need to stay with the system and he can control it from some where.

This Research has been solved that the user can control his devices from any where in the world was ,By sending orders from his mobile Terminal , and the system consists of three basic components are the mobile Terminal and the SCADA network and mobile network between them .

مستخلص البحث

نتيجة للتطور السريع في ثورة التكنولوجيا والتطبيقات الجديدة الناجمة عن استخدام الـ SCADA في مختلف المجالات العلمية والتطبيقات الصناعية. جاء استخدام الـ SCADA كنظام تحكم متطور في العديد من الشركات الصناعية وهذا عزز من فكرة تقديم إمكانيات جديدة باستخدام شبكات الاتصالات وشبكات الكمبيوتر بالإستفادة من التطور الكبير في مجال الإنترنت بروتوكول IP ، حيث يمكن التحكم في الأنظمة من قبل محطة متنقلة ولا حاجة للمهندسين والفنيين للبقاء باستمرار في الحقول والمصانع مع الأنظمة.

وقد تم في هذا البحث معالجة إمكانية التحكم بالأنظمة من أي مكان في العالم من خلال إرسال أوامر من المحطة المتنقلة الى نظام التحكم، ويتكون النظام من ثلاث مكونات أساسية وهي :
المحطة المتنقلة وشبكة الـ SCADA وشبكة الاتصالات بينهما.

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