بسم الله الرحمن الرحيم

دليل البحث في المستودع الرقمي لجامعة السودان للعلوم والتكنولوجيا

يحتوي المستودع الرقمي لجامعة السودان للعلوم والتكنولوجيا على الإنتاج الفكري لمنسوبي الجامعة ويتمثل في الرسائل العلمية (دبلوم عالي ماجستير - دكتواره)، ومشاريع التخرج (دبلوم بكلاريوس)، والاوراق العلميه، و الكتب المنشوره، إضافة إلى الدورات التدريبية، و الصوتيات، والمرئيات وغيرها، مما يساهم في إتاحة الإنتاج الفكرى مما يساعد على تقدم البحث العلمي وتطويره، ولسهولة الوصول إلى المحتوى يمكن إتباع احدى الطرق الموضحة أدناه.

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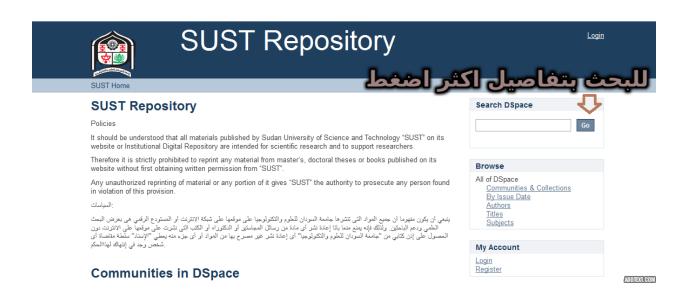
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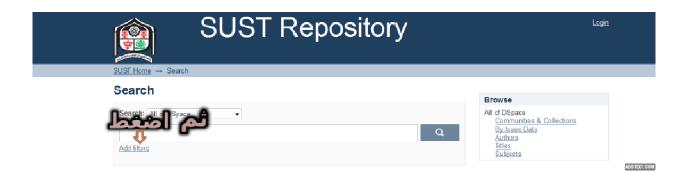
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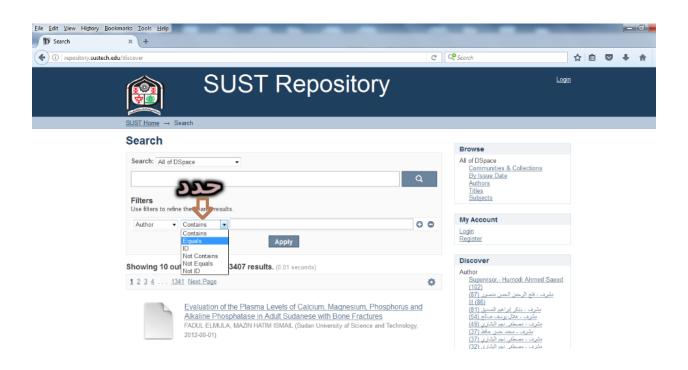
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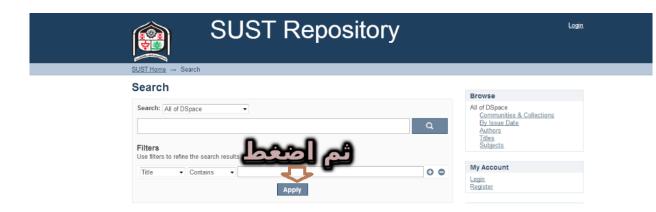
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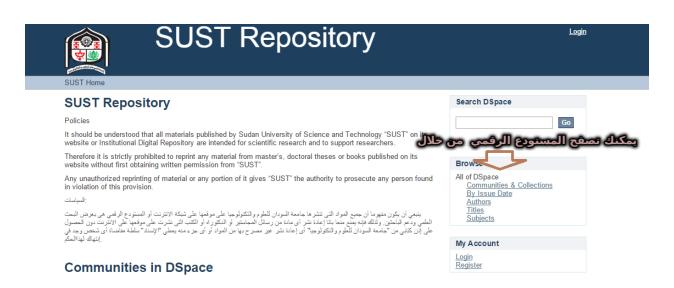




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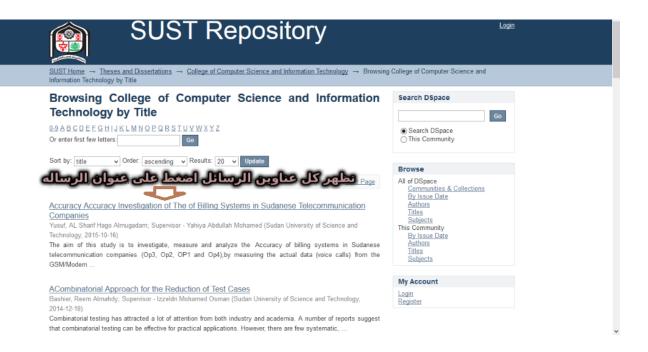


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Accuracy Accuracy Investigation of The of Billing Systems in Sudanese Telecommunication Companies

Yusuf, AL Sharif Hago Almugadam; Supervisor - Yahiya Abdullah Mohamed

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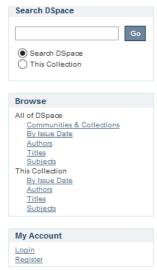
Format: PDF Description: Research

Date: 2015-10-16

Abstract:

The aim of this study is to investigate, measure and analyze the Accuracy of billing systems in Sudanese telecommunication companies (Op3, Op2, OP1 and Op4), by measuring the actual data (voice calls) from the GSM/Modem and comparing it to the extracted data from the billing systems within the telecom operators. To study the problem and test the proposed solution the following steps has been performed: Identifying call duration, Determining the Price List of the call according to selected telecom company, Receiving call by using ATA command to answer the call, Calculating the accurate cost of call according to specified price and call duration, by 2multiplying the call duration in selected price to get the total cost of call, Generating Reports which used to generate Actual reports from the voice calls, price/cost/Quality to make comparisons between actual voice calls throw GSM/Modem and ordinary voice calls, throw Billing Systems that telecommunication companies generated. The thesis experiments proved the accuracy of the billing system inside OP1 network and outside OP1 network to Op3 telecom company, but it is lacks some precision when calling from OP1 to Op2 telecom company, also the results proved accuracy of billing system in Op2 telecom company when calling from Op2 to Op3 and OP1 telecom companies (Off-Net), but it is lacks some precision when calling from Op2 to Op3 op3 to Op3 to Op3 and Off Net Calls when calling from Op3 to Op3 and Off Net Calls when calling from Op3 to Op3 and Off Net Calls when calling from Op3 to Op3 and Off Net Calls when calling from Op3 to Op3 and Off Net Calls when calling from Op3 to Op3 and Off Net Calls when calling from Op3 to Op3 and Off Net Calls when calling from Op3 to Op3 and Off Net Calls when calling from Op3 to Op3 and Off Net Calls when calling from Op3 to Op3 and Off Net Calls when calling from Op3 to Op3 and Off Net Calls when calling from Op3 to Op3 and Off Net Calls when calling from Op3 to Op3 and Off Net Calls when calling from Op3 to Op3 and Off Net Calls w

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Accuracy

Accuracy Investigation of The of Billing Systems in Sudanese Telecommunication Companies

التحقق من دقة أنظمة الدفع في شركات الاتصالات السودانية

A Thesis Submitted in Partial Fulfillment of the Requirements of Master Degree in Computer Science

By:

AL Sharif Hago Almugadam Yusuf

Supervisor: