

I. Abstract

This Research describes and simulates the implementation of speech recognition authentication in the ATM (Automated teller machine) to control the access, payment, and to reduce the number of claims involving fraudulent or disputed transactions which rising steeply. The methods used for speech recognition is signal processing, i.e. analyzing the human voice(speech) signal by determining it's parameters, extracting feature of a voice signal using MATLAB Language, the Voice signals are sampled directly from the microphone and then they are processed using MATLAB for extracting the features and parameters of voice signal.. Then, these data become the input of the ATM which is conveyed to another Computer using Turbo C++ to check and accept the legal access and deny hacking or fraud.

II. المستخلص

هذا البحث يصف ويحاكي مشروع تطبيق التحكم الصوتي من أجل استخدام آمن وسري لأجهزة الصراف الآلي (ATM) ، لغرض حماية عملية سحب النقود، وخفض الأضرار التي تنتج جراء الاحتيال أو السرقات التي ترتفع بشكل حاد مؤخراً. الطرق المستخدمة في البحث للتحكم في الصراف الآلي بالصوت هي طريقة معالجة الإشارات الرقمية، وتحليل الصوت البشري عن طريق تحليل واستخلاص بارامترات إشارة الصوت البشري، وسماتها باستخدام لغة ماتلاب (MATLAB) ، يتم أخذ عينات الإشارات الصوتية مباشرة من الميكروفون ثم تتم معالجتها باستخدام لغة MATLAB لاستخلاص بارامترات ومعالم الإشارة الصوتية.. ثم، تصبح هذه البيانات مدخلات لأجهزة الصراف الآلي حيث يتم نقلها إلى كمبيوتر آخر يمثل الصراف الآلي، ويتم التحقق من مطابقة الإشارة باستخدام لغة توربو C + + للتأكد من صحة أو تزوير شخصية مستخدم الصراف ثم بناء على نتيجة التحقق يتم السماح له، أو منعه من استخدام الصراف الآلي.

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VII. Abbreviations(acronyms):

ATM	Automated Teller Machine
PIN	Personal Identification Number
CVV	Card Verification Value
CVC	Card Verification Code
CVVC	Card Verification Value Code
MATL	matrix laboratory
AB	
DSP	Digital signal processing
DAC	Digital-to-analog converter
A/D	Analog-to-digital converter
AT&T	A leader in telecommunication services
HMIH	How May I Help You customer care system
Y	
POTS	Plain old telephone service