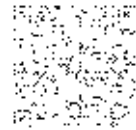


生物辨識系統犯罪預防效果 之比較探討

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摘要

隨著尖端生物辨識技術的發展趨勢，生物辨識系統在安全實務上的運用已日益普及，並被宣稱有助於預防犯罪。但儘管如此，目前尚鮮少有從情境犯罪預防理論的角度來對其深入評量者。有鑑於此，本文首先根據市場調查，找出市場占有率最高的主流技術，包括指紋辨識、人臉辨識、虹膜辨識及簽名辨識等4種類型生物辨識系統。接著，以Clarke情境犯罪預防理論的5種構面為指標，利用作業風險管理整合軟體（ORMIT V.3.0），逐一分析評量其犯罪預防的效果並排出名次。結果顯示，虹膜辨識系統的犯罪預防效果最佳，簽名辨識系統次佳，人臉辨識系統又次之，指紋辨識系統殿後。

關鍵詞：生物辨識、安全、作業風險管理整合軟體（ORMIT）、初步危險分析法（PHA）、情境犯罪預防理論

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A Study on the Assess the Effect of Crime Prevention for Biometric System

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Abstract

With the trend of cutting-edge biometrics technology, biometrics security systems used in the increasingly common practice, and is claimed to help prevent crime; however, they rarely have from the perspective of situational crime prevention theory to its in-depth assessment. For this reason, this paper based on market research to identify the highest market share of mainstream technologies including: fingerprint, face recognition, iris recognition, and signature of the four types of biometric identification systems. Take the five dimensions of Clarke situational crime prevention theory as an indicator, the use of integrated operational risk management software (ORMIT V.3.0), analyzed individually assess the effect of its crime prevention and to discharge ranking. The results showed that the best is iris recognition system. The second is signature recognition system. The third is face recognition system, and the fourth is fingerprint identification system.

Keywords: biometric, security, preliminary hazard analysis (PHA), operational risk management integration tools (ORMIT), situational crime prevention theory

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