

RFID-based Digital Content Copy Protection System in Movie and Audio Rental Agency

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Abstract— As media rental markets have expanded, a secure digital content protection system is urgently demanded. It is true that digital right management (DRM) has made tremendous progress in fighting piracy, but the pirated contents are still rampant due to the weakness of DRM systems. Because they are incapable of controlling external pirate action like analog/digital bus tampering. In this paper, we propose a novel approach using RFID (Radio Frequency Identification) technology and cryptography algorithm to provide end-to-end protection.

Keyword— RFID, Rental Agency, Cryptography, DRM, Digital Content, DES, RSA



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