

CS 463 Topic Proposal

Name: Maruel Borja

Title: Digital Rights Management

Description:

Digital Rights Management (DRM) technologies are executable codes that are responsible for imposing rights and conditions linked with the use and protection of digital content and services such as music and movies that are downloaded over the Internet. Copyright owners view DRM as a tool to protect their products or creations. On the other hand, public advocates and copyright scholars have expressed their concern about the legal, social, and ethical implications of DRM. Some are concerned that DRM may inhibit the effective dissemination of information and knowledge to the public as well as the advancement of copyrighted works. The implementation of DRM may also conflict with existing copyright laws and may invade the privacy of individuals. This topic will first discuss an introduction to DRM architecture and the two rights expression languages that are the basis of DRM implementation, namely the eXtensible rights Markup Language (XrML) and the eXtensible Access Control Markup Language (XACML). The topic will also explore the relationship between DRM and existing laws and the impact of DRM on individual privacy.

Reference:

J.E. Cohen. 2003. DRM and Privacy, *Communications of the ACM* 46, 4 (Apr.), 46 – 49.

J.S. Erickson. 2003. Fair Use, DRM, and Trusted Computing, *Communications of the ACM* 46, 4 (Apr.), 34 – 39.

E.W. Felten. 2003. A Skeptical View of DRM and Fair Use, *Communications of the ACM* 46, 4 (Apr.), 56 – 59.

P. Samuelson. 2003. DRM {And, Or, Vs.} The Law, *Communications of the ACM* 46, 4 (Apr.), 41 – 45.

Wang, X., Lao, G., DeMartini, T., Reddy, H., Nguyen, M. & E. Valenzuela. 2002. XrML – eXtensible rights Markup Language, *ACM Workshop on XML Security*, Fairfax, VA (Nov.), 71 – 79.