

<<数字版权管理中的安全策略分析与选取>>

图书基本信息

书名：<<数字版权管理中的安全策略分析与选取>>

13位ISBN编号：9787030343352

10位ISBN编号：7030343352

出版时间：2012-1

出版时间：科学出版社

作者：Zhang Zhiyong

页数：219

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

内容概要

《Security Trust and Risk in Digital Rights Management Ecosystem》内容介绍：The monograph has an objective to make an interesting insight on security, trust and risk in DRM ecosystem from interdisciplinary perspective. The state-of-the-art of DRM technologies is firstly presented, and then the book proposed a tradeoff between DRM security and utility by cost-effectively adopting and deploying of security policies and mechanisms, in order to implement an optimal security-utility equilibrium and establish the multi-stakeholder trust in DRM ecosystem. And also, the book has an in-depth investigation on security risk management in the copyrighted contents value chain. Finally, a comprehensive multimedia DRM application case for digital home networks was highlighted.

《Security Trust and Risk in Digital Rights Management Ecosystem》 is intended for research scientists, engineers, developers and high-level administrators of digital rights management ecosystems and applications, and also for advanced-level students in computer science, information technology and management science.

书籍目录

Preface

Chapter 1 Introduction

1.1 DRM Backgrounds

1.1.1 DRM Definitions

1.1.2 A Generic Contents Value Chain Ecosystem

1.1.3 Three Aspects of DRM Ecosystem

1.2 State-of-The-Art DRM

1.2.1 Cryptographic Security & Digital Watermarking

1.2.2 Digital Rights Expression and Usage Control

1.2.3 User Privacy Protection and Contents Security

1.2.4 DRM Trust Models

1.3 Research Motivation and Scope

1.4 Monograph Outline

1.5 Conclusion

References

Chapter 2 Enhanced Security Policies for DRM

2.1 Fundamental Security Requirements in DRM

2.2 Trusted Computing and Remote Attestation

2.2.1 Trusted Computing Background

2.2.2 Trusted Computing and Its Features

2.2.3 Remote Attestation

2.3 Ap2RA Model and Secure Protocol

2.3.1 Privacy Protection and ApaRA Model

2.3.2 Security Protocol

2.3.3 Analysis and Comparisons

2.4 Trusted Computing-enabled Digital Rights Sharing

2.4.1 Usage Control with Delegation Characteristics

2.4.2 Fine-Grained Digital Rights Transfer Policy

2.4.3 Ap2RA-Based Contents Dissemination System

2.4.4 Trusted Distribution on Transferable Rights

2.5 Digital Rights Negotiation and Contents Security

2.5.1 Transaction-Based Digital Rights Negotiation

2.5.2 Contents Verification and Trusted Execution

2.6 Conclusion

References

Chapter 3 Formalized DRM Security-Utility and Game-Theoretical Analysis

3.1 Requirements for Trust in DRM

3.1.1 Essential Trust Relations

3.1.2 Conceptual Multi-Participant Trust Architecture

3.2 Formalized Game-Theoretical Adoptions of Security Policies

3.2.1 DRM Security Policies and Properties

3.2.2 Non-Cooperative Game on Security Policies

3.2.3 Cooperative Game on Security Policies

3.3 Fuzzy Analytic Hierarchy Process on Utility-Factor Weights

3.3.1 Analytic Hierarchy Process and Fuzzy Assessment

3.3.2 Hierarchy Process Structure and Consistency Matrix

3.3.3 FAHP-Based Weights Assessment

3.4 Conclusion

References

Chapter 4 Basic Security-Utility and Game Analysis in Contents

Acquisition Scenario

4.1 DRM Typical Security Policies

4.1.1 Typical Security Policy Set

4.1.2 Security Policies Relativity

4.2 Security Utility Analysis

4.2.1 Payoff Functions of Security Policies Combinations

4.2.2 Utility-Factors Weights Assessment and Calculation

4.3 Non-Cooperative Game on Typical Policies Set

4.3.1 A Non-Cooperative Game Model

4.3.2 Nash Equilibriums and Conditions

4.3.3 Swarm Simulations and Discussions

4.4 Cooperative Game for Typical Policies

4.4.1 Security Benefits Super-Additionivity and Convexity

4.4.2 Establishment of Multi-Participant Cooperation

4.5 Conclusion

References

Chapter 5 Dynamic Mixed Game Analysis of Security Policies in

Contents Sharing Scenario

5.1 Rights Delegation and Transfer for Contents Sharing

5.2 Dynamic and Mixed Game for Contents Sharing

5.2.1 Rights Sharing Tree and DMG

5.2.2 An Algorithm for DMG

5.3 Swarm-Based Simulation Experiments

5.3.1 Basic Simulation Environment and Procedure

5.3.2 Simulations Experiments on Different Sharing Modes

5.4 Conclusion

References

Chapter 6 DRM Risk Management

6.1 Risk Utility of Security Policy

6.1.1 Security Risk Management and Utility Category

6.1.2 Pros and Cons of Qualitative and Quantitative

Assessments

6.1.3 An Analytic Approach to Risk-Controlled Utility

6.2 Risk-Controlled Utility Analysis and Business Model

6.2.1 Risk Utility of TC-Enabling Security Policy

6.2.2 Sharing Modes and Maximum Benefits of Contents Purveyor

6.2.3 Simulation Experiments

6.2.4 Related Discussions and Business Model

6.3 Conclusion

References

Chapter 7 DRM Application Case for Digital Home Network

7.1 A DRM Usage Control Model for Digital Home Network

7.1.1 Formalized Role-based, Cross-Domain Usage Control Model for DHN

7.1.2 Visual Modeling of the RCDUCM for DHN

7.1.3 An Application Case of the RCDUCM for DHN

7.2 A Novel Approach to Digital Contents Sharing for Digital Home Network

7.2.1 Background and Motivation

7.2.2 Classification of Roles and Distribution of Permissions for DHN

7.2.3 A Novel Approach to Digital Contents Sharing for DHN

7.2.4 Analysis of Performance and Security

7.3 A Novel DRM Security Scheme and Its Prototype System Implementation

7.3.1 DRM System Architecture

7.3.2 DRM System Security Mechanism

7.3.3 Playback Control Based on Cryptography and License

7.3.4 Implementation of DRM Prototype System

7.4 Conclusion

References

Chapter 8 Further Works and Open Issue

8.1 Further Works

8.2 Trust Evaluation in Multimedia Social Network

8.2.1 Introduction

8.2.2 Advance on Trust Evaluation in Social Networks

8.3 Open Issue and Topics

8.4 Conclusion

References

Appendix A

Appendix B

Acknowledgments

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>