

# **DATABASE AND APPLICATIONS SECURITY: INTEGRATING INFORMATION SECURITY AND DATA MANAGEMENT**

Introduction

## **SUPPORTING TECHNOLOGIES FOR DATABASE AND APPLICATIONS SECURITY**

Data Management Technologies

Information Security

Information Management Technologies

## **DISCRETIONARY SECURITY FOR DATABASE SYSTEMS**

Security Policies

Policy Enforcement and Related Issues

## **MANDATORY SECURITY FOR DATABASE SYSTEMS**

Historical Developments

Design Principles

## **MULTILEVEL SECURE RELATIONAL DATABASE SYSTEMS**

Multilevel Relational Data Models

Security Impact on Database Functions

Prototypes and Products

## **THE INFERENCE PROBLEM**

A Perspective of the Inference Problem

Security-Constraint Processing for Inference Control

Conceptual Structures for Inference Control

## **SECURE DISTRIBUTED AND HETEROGENEOUS DATABASE SYSTEMS**

Discretionary Security for Distributed Database Systems

Multilevel Security for Distributed Database Systems

Secure Heterogeneous and Federated Database Systems

## **SECURE OBJECT AND MULTIMEDIA SYSTEMS**

Discretionary and Multilevel Security for Object Database Systems

Aspects of Objects and Security

Secure Multimedia Data Management Systems

## **DATA WAREHOUSING, DATA MINING, SECURITY, AND PRIVACY**

Secure Data Warehousing

Data Mining for Security Applications

Privacy

## **SECURE WEB DATA AND INFORMATION MANAGEMENT TECHNOLOGIES**

Secure Web Data Management and Digital Libraries

Security for XML, RDF, and the Semantic Web

Secure E-Commerce, Collaboration, and Knowledge Management

## **EMERGING SECURE DATA MANAGEMENT TECHNOLOGIES AND APPLICATIONS**

Secure Dependable Data Management

Secure Sensor and Wireless Information Management

Digital Identity, Forensics, and Related Topics

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Summary and Directions

**APPENDICES**

Data Management Systems: Developments and Trends

Suggested Reading: Books in Database Systems and  
Information Security

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