Preface

Digital identity management is becoming an integral part of our lives and businesses as more and more of the online interactions in which we participate depend on networked computer systems communicating potentially sensitive identity information across personal, company, and enterprise boundaries. Conversely, the abuse of digital identities (e.g., identity theft, eavesdropping, hacking, profiling, etc.) poses an increasing threat to both our privacy and finances – thereby affecting society's collective confidence in online interactions.

This special issue is devoted to a selection of the contributed papers presented at the First ACM Workshop on Digital Identity Management – DIM 2005, held in conjunction with the *12th ACM Conference on Computer and Communications Security, CCS2005*.

Two papers were selected from 13 workshop papers and were extended and revised for this special issue. The first paper "Secure Pseudonym Management using Mediated Identity-Based Encryption" introduces an important problem in the area of privacy for location-based services and incorporates mediated identity-based encryption to solve the problem. The second paper "Establishing and Protecting Digital Identity in Federation Systems" proposes a mechanism for registration and use of identifying attributes within a federated identity management system, which has the following properties: prevention of identity theft, and ensuring privacy of identifying attributes. I hope this special issue contributes to our exploration of the frontier of digital identity management through the DIM workshop series.

I would like to express my gratitude to the DIM 2005 program committee and external reviewers, who worked very hard in reviewing papers and providing suggestions for their improvements. Finally I would also like to thank Editors-in-chief, Professor Sushil Jajodia and Dr. Jonathan K. Millen, for their kind advice in editing this issue.

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