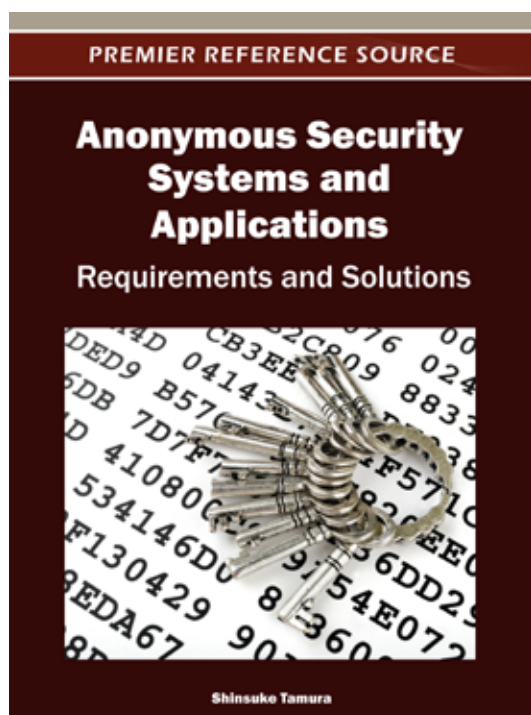


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Anonymous Security Systems and Applications: Requirements and Solutions



Shinsuke Tamura
(University of Fukui, Japan)

As modern technologies, such as credit cards, social networking, and online user accounts, become part of the consumer lifestyle, information about an individual's purchasing habits, associations, or other information has become increasingly less private. As a result, the details of consumers' lives can now be accessed and shared among third party entities whose motivations lie beyond the grasp, and even understanding, of the original owners.

Anonymous Security Systems and Applications: Requirements and Solutions outlines the benefits and drawbacks of anonymous security technologies designed to obscure the identities of users. These technologies may help solve various privacy issues and encourage more people to make full use of information and communication technologies, and may help to establish more secure, convenient, efficient, and environmentally-friendly societies.

Topics Covered:

- e-voting systems and civic engagement
- Encryption and Decryption
- Classification of Encryption Algorithms
- Encryption Schemes for Anonymous Systems
- Hash, Mac and Digital Signatures
- Anonymous Service Components
- Anonymous Authentication
- Anonymous Token-Based Schemes
- Enhanced Symmetric key Based Mix-net (ESEBM)
- Anonymous Auction System Development

ISBN: 9781466616493; © 2012; 265 pp.

Print: US \$195.00 | Perpetual: US \$295.00 | Print + Perpetual: US \$390.00

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Shinsuke Tamura received the B.S., M.S. and Dr.(Eng) degrees in Control Engineering from Osaka University in 1970, 1972 and 1991, respectively. During 1972 to 2001 he worked for Toshiba Corporation, and had been developing information systems for various applications including mechanical CAD systems, system engineering tools, manufacturing systems, power systems, railway control systems, and building, factory and office automation systems. He is currently a professor of Graduate School of Engineering, University of Fukui. His current research interests include distributed system architecture, system development methods, information security, path planning algorithms (for manipulators), and manufacturing scheduling algorithms.



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