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# Privacy Protection Measures and Technologies in Business Organizations: Aspects and Standards

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Privacy Protection Measures and Technologies in Business Organizations Aspects and Standards



George O.M. Yes

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## George O.M. Yee (Aptus Research Solutions Inc. and Carleton University, Canada)

Why are tools needed to build privacy into business processes? As in most endeavors, tools can help, and in an application area where, for example, privacy may be resisted in favor of the fallacious argument of higher profits, tools are needed. Most professionals have heard of the Privacy Impact Assessment (Warren et al., 2008). This is a tool that evaluates the impact to privacy of a proposed change to business practice. Prior to the introduction of this tool, such impacts to privacy were either done in an ineffective way or not even considered.

**Privacy Protection Measures and Technologies in Business Organizations: Aspects and Standards** is a collection of research on privacy protection technologies and their application in business organizations. Providing insights and support professionals concerned with the management of expertise, knowledge, information, and organizational development in different types of business organizations and environments. This book will be composed of professionals and researchers working in the field of privacy protection in various disciplines.

## **Topics Covered:**

- Complying with Privacy Laws and Regulations
- Consumer Private Information in Business Organizations
- Discovering or Delimiting Private Information
- Facilitating the Adoption of Privacy Protection Measures
- · Gauging the Effectiveness of Privacy

#### Protection Measures

- Introducing Privacy Protection Measures
- Legal Aspects of Privacy Protection in Business
- Privacy Enhancing Technologies Applicable to Business
- Privacy Related Business Standards
- Requirements for Privacy Protection Measures

**Market:** This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

George Yee is a Consultant and an Adjunct Professor with the Dept. of Systems and Computer Engineering, Carleton University, Ottawa, Canada. He was previously a Senior Research Officer for over 7 years in the Information Security Group, National Research Council Canada (NRC). Prior to the NRC, he had significant experience as a member of scientific staff and manager at Bell-Northern Research and Nortel Networks. George received his Ph.D in Electrical Engineering from Carleton University and is a member of Professional Engineers Ontario. In addition, he is a Certified Information Systems Security Professional (CISSP) and a Certified Software Development Professional (CSDP). George's research interests as an Adjunct Professor lie in the engineering of reliable systems, involving security, fault tolerance, performance, and correctness.



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#### Section 1: Privacy Protection Technology Applicable to Business

#### Chapter 1

Privacy Enhancing Technologies for Information Control Jaatun Martin Gile (SINTEF ICT, Norway) Tondel Inger Anne (SINTEF ICT, Norway) Bernsmed Karin (SINTEF ICT, Norway) Nyre Åsmund Ahlmann (SINTEF ICT, Norway)

#### Chapter 2

User-Centric Privacy Management in Future Network Infrastructure Gomez-Skarmeta Antonio F. (University of Murcia, Spain) Mendez Alejandro Perez (University of Murcia, Spain) Garcia Elena Torroglosa (University of Murcia, Spain) Millán Gabriel Lopez (University of Murcia, Spain)

#### Chapter 3

Leveraging Access Control for Privacy Protection: Antonakopoulou Anna (National Technical University of Athens, Greece) Lioudakis Georgios V. (National Technical University of Athens, Greece) Gogoulos Fotios (National Technical University of Athens, Greece) Kaklamani Dimitra I. (National Technical University of Athens, Greece) Venieris Iakovos S. (National Technical University of Athens, Greece)

Chapter 4 Self-Protecting Access Control: Kayem Anne V. D. M. (University of Cape Town, South Africa) Martin Patrick (Queen's University, Canada) Akl Selim G. (Queen's University, Canada)

#### Chapter 5

Privacy Hash Table Sun Xiaoxun (Australian Council for Educational Research, Australia) Li Min (University of Southern Queensland, Australia)

#### Chapter 6

Developing Secure Business Processes: Rodríguez Alfonso (University of Bio-Bio, Chile) Fernández-Medina Eduardo (University of Castilla-La Mancha, Spain) Piattini Mario (University of Castilla-La Mancha, Spain)

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#### Section 2: Privacy Protection in Specific Business Domains

Chapter 8 Privacy Considerations for Electronic Health Records Kuchler Mary (University of Tulsa, USA) Schimke Nakeisha (University of Tulsa, USA) Hale John (University of Tulsa, USA)

#### Chapter 9

Princy Protection Issues for Healthcare Wellness Clouds Grandison Tyrone (IBM Thomas J. Watson Research Center, USA) Hsueh Pei-yun S (IBM Thomas J. Watson Research Center, USA) Zeng Liangzhao (IBM Thomas J. Watson Research Center, USA) Chang Henry (IBM Taiwan Corporation, Taiwan) Chen Yi-Hui (Asia University, Taiwan) Lan Ci-Wei (IBM Taiwan Corporation, Taiwan) Hao-Ting (Howard) Pai (National Chung Cheng University, Taiwan) Tseng Li-Feng (IBM Taiwan Corporation, Taiwan)

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Ensuring Privacy and Confidentiality in Digital Video Surveillance Systems Castiglione Aniello (Università degli Studi di Salerno, Italy) De Santis Alfredo (Università degli Studi di Salerno, Italy) Palmieri Francesco (Seconda Università degli Studi di Napoli, Italy)

Chapter 11 Protecting Privacy by Secure Computation: Kerschbaum Florian (SAP Research Karlsruhe, Germany) Funke Daniel (SAP Research Karlsruhe, Germany)

#### Chapter 12

A Dynamic Privacy Manager for Compliance in Pervasive Computing Bonazzi Riccardo (University of Lausanne, Switzerland) Liu Zhan (University of Lausanne, Switzerland) Ganière Simon (Deloitte SA, Switzerland) Pigneur Yves (University of Lausanne, Switzerland)

#### Section 3: Privacy Related Analyses and Evaluations

Chapter 13 Harm Mitigation from the Release of Personal Identity Information Patrick Andrew S. (Office of the Privacy Commissioner of Canada & Carleton University, Canada) Camp L. Jean (Indiana University, USA)

Chapter 14 Consumer Privacy Protection in the European Union: Wang Faye Fangfei (Brunel University, UK)

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