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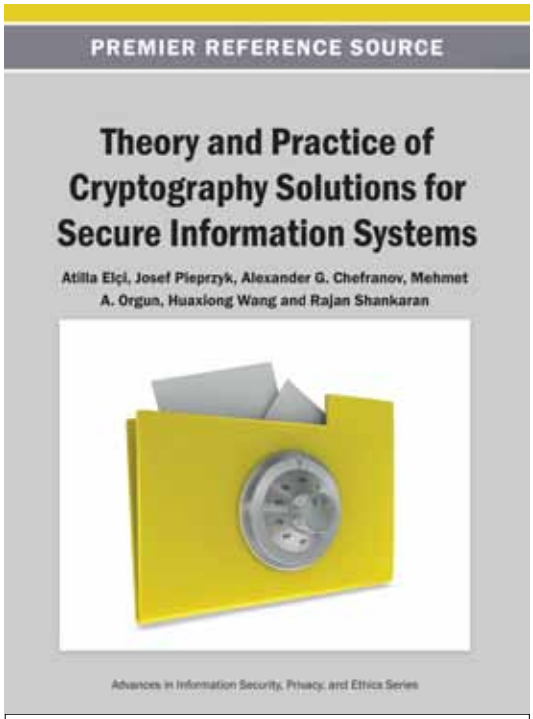
Theory and Practice of Cryptography Solutions for Secure Information Systems



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Atilla Elçi (Aksaray University, Turkey), Josef Pieprzyk (Macquarie University, Australia), Alexander G. Chefranov (Eastern Mediterranean University, North Cyprus), Mehmet A. Orgun (Macquarie University, Australia), Huaxiong Wang (Nanyang Technological University, Singapore) and Rajan Shankaran (Macquarie University, Australia)

Information Systems (IS) are a nearly omnipresent aspect of the modern world, playing crucial roles in the fields of science and engineering, business and law, art and culture, politics and government, and many others. As such, identity theft and unauthorized access to these systems are serious concerns.

Theory and Practice of Cryptography Solutions for Secure Information Systems explores current trends in IS security technologies, techniques, and concerns, primarily through the use of cryptographic tools to safeguard valuable information resources. This reference book serves the needs of professionals, academics, and students requiring dedicated information systems free from outside interference, as well as developers of secure IS applications. This book is part of the Advances in Information Security, Privacy, and Ethics series collection.

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- Copyright Protection
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- Cryptography and Security
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Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners. Ideal for classroom use.

Atilla Elçi is full professor and chairman of the Department of Electrical and Electronics Engineering at Aksaray University, Aksaray, Turkey, since August 2012. He was full professor and chairman of computer and educational technology at Süleyman Demirel University, Isparta, Turkey (May 2010 - June 2012). He served as full professor of computer engineering, the founding director of the Graduate School of Science and Technology, and the dean of Engineering Faculty at Toros University, Mersin, Turkey (July 2010 - June 2011); with the Computer Engineering Program, Middle East Technical University (METU NCC, Spring 2010); Eastern Mediterranean University (2003-2009) where he established the Internet Technologies Research Center and semantic robotics lab; Haliç University, Istanbul, Turkey, founder and chair of the Computer Engineering Department (2000-2003); the International Telecommunication Union, Geneva, Switzerland, as chief technical advisor (1985-1997); METU Ankara, Turkey, where he was chair and assistant chair of Computer Engineering Department(1976-1985); Purdue University, W. Lafayette, Indiana, USA, as research assistant (1974-5). He has organized or served in the committees of numerous international conferences. He has been organizing IEEE Engineering Semantic Agent Systems Workshops since 2006, Security of Information and Networks Conferences since 2007; and, IJRCS Symposiums 2007&9. He has published over a hundred journal and conference papers; edited the book titled *Semantic Agent Systems* (Springer 2011), *Theory and Practice of Cryptography Solutions for Secure Information Systems* (IGI 2013); proceedings of SIN 2007, 9 - 12 by ACM, ESAS 2006-12 by IEEE CS, and IJRCS 2009; special issues. He was the program chair for the 36th COMPSAC (2012). He obtained B.Sc. in Computer/Control Engineering at METU, Ankara, Turkey (1970), M.Sc. & Ph.D. in Computer Sciences at Purdue University, USA (1973, 1975). Website: His research and experience encompass web semantics, agent-based systems, robotics, machine learning, knowledge representation and ontology, information security, software engineering, and natural language translation.

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