

Security Analysis and Legal Compliance Checking for the Design of Privacy-friendly Information Systems

Publons ID	(not set)
Wos ID	WOS:000614039400028
Doi	10.1145/3078861.3078879
Title	Security Analysis and Legal Compliance Checking for the Design of Privacy-friendly Information Systems
First Author	
Last Author	
Authors	Guarda, P; Ranise, S; Siswanto, H;
Publish Date	2017
Journal Name	PROCEEDINGS OF THE 22ND ACM SYMPOSIUM ON ACCESS CONTROL MODELS AND TECHNOLOGIES (SACMAT'17)
Citation	8
Abstract	<p>Nowadays, most of business practices involve personal data processing of customers and employees. This is strictly regulated by legislation to protect the rights of the data subject. Enforcing regulation into enterprise information system is a non-trivial task that requires an interdisciplinary approach. This paper presents a declarative framework to support the specification of information system designs, purpose-aware access control policies, and the legal requirements derived from the European Data Protection Directive. This allows for compliance checking via a reduction to policy refinement that is supported by available automated tools. We briefly discuss the results of the compliance analysis with a prototype tool on a simple but realistic scenario about the processing of personal data to produce salary slips of employees in an Italian organization.</p>
Publish Type	Book
Publish Year	2017
Page Begin	247
Page End	254
Issn	
Eissn	
Url	https://www.webofscience.com/wos/woscc/full-record/WOS:000614039400028
Author	HARI SISWANTORO, S.T., M.T., Ph.D.