

# Contents

## Quantitative Aspects in Security Assurance

Metrics for Transparency . . . . .	3
<i>Dayana Spagnuolo, Cesare Bartolini, and Gabriele Lenzini</i>	
Understanding Bifurcation of Slow Versus Fast Cyber-Attackers . . . . .	19
<i>Maarten van Wieren, Christian Doerr, Vivian Jacobs, and Wolter Pieters</i>	
Decomposing Global Quantitative Properties into Local Ones . . . . .	34
<i>Ilaria Matteucci and Francesco Santini</i>	
Efficient SAT-Based Pre-image Enumeration for Quantitative Information Flow in Programs . . . . .	51
<i>Alexander Weigl</i>	

## Privacy Protection

Controlled Management of Confidentiality-Preserving Relational Interactions. . . . .	61
<i>Joachim Biskup, Ralf Menzel, and Jaouad Zarouali</i>	
Privacy-Preserving Abuse Detection in Future Decentralised Online Social Networks . . . . .	78
<i>Álvaro García-Recuero, Jeffrey Burdges, and Christian Grothoff</i>	
Privacy-Preserving Targeted Mobile Advertising: Formal Models and Analysis. . . . .	94
<i>Yang Liu and Andrew Simpson</i>	

## Identification, Authentication, and Authorization

Searchable Encryption for Biometric Identification Revisited . . . . .	113
<i>Ghassane Amchyaa, Julien Bringer, and Roch Lescuyer</i>	
On the User Acceptance of Privacy-Preserving Attribute-Based Credentials – A Qualitative Study . . . . .	130
<i>Ahmad Sabouri</i>	
Investigating the Animation of Application Permission Dialogs: A Case Study of Facebook. . . . .	146
<i>Yousra Javed and Mohamed Shehab</i>	

**Security and Secure Applications**

Securing Multiparty Protocols Against the Exposure of Data to Honest Parties. . . . .	165
<i>Peeter Laud and Alisa Pankova</i>	
Secure Frequent Pattern Mining by Fully Homomorphic Encryption with Ciphertext Packing. . . . .	181
<i>Hiroki Imabayashi, Yu Ishimaki, Akira Umayabara, Hiroki Sato, and Hayato Yamana</i>	
Isabelle Modelchecking for Insider Threats. . . . .	196
<i>Florian Kammüller</i>	

**DPM Short Papers**

Managing and Presenting User Attributes over a Decentralized Secure Name System. . . . .	213
<i>Martin Schanzenbach and Christian Banse</i>	
PRIAM: A Privacy Risk Analysis Methodology . . . . .	221
<i>Sourya Joyee De and Daniel Le Métayer</i>	
A Study from the Data Anonymization Competition <i>Pwscup 2015</i> . . . . .	230
<i>Hiroaki Kikuchi, Takayasu Yamaguchi, Koki Hamada, Yuji Yamaoka, Hidenobu Oguri, and Jun Sakuma</i>	
Refactoring Preserves Security . . . . .	238
<i>Florian Kammüller</i>	
<b>Author Index</b> . . . . .	247

Data Privacy Management and Security Assurance  
11th International Workshop, DPM 2016 and 5th  
International Workshop, QASA 2016, Heraklion, Crete,  
Greece, September 26-27, 2016, Proceedings  
Livraga, G.; Torra, V.; Aldini, A.; Martinelli, F.; Suri, N.  
(Eds.)  
2016, XIV, 247 p. 74 illus., Softcover  
ISBN: 978-3-319-47071-9