

Contents

SEQUOIA: Scalable Policy-Based Access Control for Search Operations in Data-Driven Applications	1
<i>Jasper Bogaerts, Bert Lagaisse, and Wouter Joosen</i>	
A Voucher-Based Security Middleware for Secure Business Process Outsourcing	19
<i>Emad Heydari Beni, Bert Lagaisse, Ren Zhang, Danny De Cock, Filipe Beato, and Wouter Joosen</i>	
LASARUS: Lightweight Attack Surface Reduction for Legacy Industrial Control Systems	36
<i>Anhtuan Le, Utz Roedig, and Awais Rashid</i>	
Exploring the Relationship Between Architecture Coupling and Software Vulnerabilities	53
<i>Robert Lagerström, Carliss Baldwin, Alan MacCormack, Dan Sturtevant, and Lee Doolan</i>	
Natural Language Insights from Code Reviews that Missed a Vulnerability: A Large Scale Study of Chromium	70
<i>Nuthan Munaiah, Benjamin S. Meyers, Cecilia O. Alm, Andrew Meneely, Pradeep K. Murukannaiah, Emily Prud'hommeaux, Josephine Wolff, and Yang Yu</i>	
Idea: Optimized Automatic Sanitizer Placement	87
<i>Gebrehiwet Biyane Welearegai and Christian Hammer</i>	
FPRandom: Randomizing Core Browser Objects to Break Advanced Device Fingerprinting Techniques	97
<i>Pierre Laperdrix, Benoit Baudry, and Vikas Mishra</i>	
Control What You Include!: Server-Side Protection Against Third Party Web Tracking	115
<i>Dolière Francis Somé, Nataliia Bielova, and Tamara Rezk</i>	
Idea-Caution Before Exploitation: The Use of Cybersecurity Domain Knowledge to Educate Software Engineers Against Software Vulnerabilities	133
<i>Tayyaba Nafees, Natalie Coull, Robert Ian Ferguson, and Adam Sampson</i>	

Defeating Zombie Gadgets by Re-randomizing Code upon Disclosure	143
<i>Micah Morton, Hyungjoon Koo, Forrest Li, Kevin Z. Snow, Michalis Polychronakis, and Fabian Monroe</i>	
KASLR is Dead: Long Live KASLR.	161
<i>Daniel Gruss, Moritz Lipp, Michael Schwarz, Richard Fellner, Clémentine Maurice, and Stefan Mangard</i>	
JTR: A Binary Solution for Switch-Case Recovery	177
<i>Lucian Cojocar, Taddeus Kroes, and Herbert Bos</i>	
A Formal Approach to Exploiting Multi-stage Attacks Based on File-System Vulnerabilities of Web Applications	196
<i>Federico De Meo and Luca Viganò</i>	
A Systematic Study of Cache Side Channels Across AES Implementations	213
<i>Heiko Mantel, Alexandra Weber, and Boris Köpf</i>	
Idea: A Unifying Theory for Evaluation Systems	231
<i>Giampaolo Bella and Rosario Giustolisi</i>	
Author Index	241

Engineering Secure Software and Systems
9th International Symposium, ESSoS 2017, Bonn,
Germany, July 3-5, 2017, Proceedings
Bodden, E.; Payer, M.; Athanasopoulos, E. (Eds.)
2017, X, 241 p. 63 illus., Softcover
ISBN: 978-3-319-62104-3