

1. Record Nr.	UNINA9910466754103321
Titolo	Empirical research for software security : foundations and experience / / edited by Lotfi ben Othmane, Martin Gilje Jaatun, Edgar Weippl
Pubbl/distr/stampa	Boca Raton, FL : , : CRC Press, , [2018] ©2018
ISBN	1-351-65088-2 1-315-15485-4 1-4987-7642-6
Descrizione fisica	1 online resource (323 pages)
Collana	CRC series in security, privacy and trust
Disciplina	005.8
Soggetti	Computer security Computer networks - Security measures Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	chapter 1 Empirical Research on Security and Privacy by Design / Koen Yskout -- chapter 2 Guidelines for Systematic Mapping Studies in Security Engineering / Michael Felderer -- chapter 3 An Introduction to Data Analytics for Software Security -- chapter 4 Generating Software Security Knowledge Through Empirical Methods / René Noé, I, Santiago Matalonga, Gilberto Pedraza, Hernán Astudillo, and Eduardo B. Fernandez -- chapter 5 Visual Analytics: Foundations and Experiences in Malware Analysis / Markus Wagner -- chapter 6 Analysis of Metrics for Classification Accuracy in Intrusion Detection / Natalia Stakhanova -- chapter 7 The Building Security in Maturity Model as a Research Tool / Martin Gilje Jaatun -- chapter 8 Agile Test Automation for Web Applications — A Security Perspective / Sandra Dominique Ringmann -- chapter 9 Benchmark for Empirical Evaluation of Web Application Anomaly Detectors / Robert Bronte -- chapter 10 Threats to Validity in Empirical Software Security Research / Daniela S. Cruzes and Lotfi ben Othmane.
Sommario/riassunto	"Developing secure software requires the integration of numerous methods and tools into the development process, and software design

is based on shared expert knowledge, claims, and opinions. Empirical methods, including data analytics, allow extracting knowledge and insights from the data that organizations collect from their processes and tools, and from the opinions of the experts who practice these processes and methods. This book introduces the reader to the fundamentals of empirical research methods, and demonstrates how these methods can be used to hone a secure software development lifecycle based on empirical data and published best practices."--
Provided by publisher.
