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Titolo	Open source fuzzing tools [[electronic resource] /] / Gadi Evron ... [et al.]
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ISBN	1-281-14515-7 9786611145156 0-08-055561-6
Edizione	[1st edition]
Descrizione fisica	1 online resource (209 p.)
Altri autori (Persone)	EvronGadi
Disciplina	005.14 005.8
Soggetti	Computer software - Testing Open source software Debugging in computer science Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Front Cover; Open Source Fuzzing Tools; Copyright Page; Contributing Authors; Contents; Chapter 1: Introduction to Vulnerability Research; Statement of Scope; Off-by-One Errors; Programming Language Use Errors; Integer Overflows; Bugs and Vulnerabilities; The Vaunted Buffer Overflow; Finding Bugs and Vulnerabilities; Source Code Review; Black Box Testing; Glass Box Testing; Chapter 2: Fuzzing-What's That?; Introduction; Introduction to Fuzzing; Milestones in Fuzzing; Fuzzing Technology; Traffic Sniffing; Prepared Template; Second-Generation Fuzzing; File Fuzzing; Host-side Monitoring Vulnerability Scanners as Fuzzers Uses of Fuzzing; Open Source Fuzzers; Commercial-Grade Fuzzers; What Comes Next; The Software Development Life Cycle; Chapter 3: Building a Fuzzing Environment; Introduction; Knowing What to Ask...; Basic Tools and Setup; Data Points; Crash Dumps; Fuzzer Output; Debuggers; Recon Tools; Linux; OSX; Summary; Chapter 4: Open Source Fuzzing Tools; Introduction; Frameworks; Special-Purpose Tools; General-Purpose Tools; Chapter 5: Commercial Fuzzing Solutions; Introduction; beSTORM (by Beyond

Security); BPS-1000 (by BreakingPoint Systems); Codenomicon Mu-4000 Security Analyzer (by Mu Security)Chapter 6: Build Your Own Fuzzer; Hold Your Horses; Fuzzer Building Blocks; One or More Valid Data Sets; Understanding What Each Byte in the Data Set Means; Change the Values of the Data Sets While Maintaining the Integrity of the Data Being Sent; Recreate the Same Malformed Data Set Time and Time Again; An Arsenal of Malformed Values, or the Ability to Create a Variety of Malformed Outputs; Maintain a Form of a State Machine; Summarize; Down to Business; Simplest Fuzz Testing Find Issues; Chapter 7: Integration of Fuzzing in the Development Cycle Introduction Why Is Fuzzing Important to Include in a Software Development Cycle?; Security Testing Workload; Setting Expectations for Fuzzers in a Software Development Lifecycle; Fuzzing as a Panacea; Fuzzing Tools versus ...; Setting the Plan for Implementing Fuzzers into a Software Development Lifecycle; Setting Goals; Building and Executing on the Plan; Understanding How to Increase Effectiveness of Fuzzers, and Avoiding Any Big Gotchas; Hidden Costs; Finding More Vulnerabilities; Summary; Solutions Fast Track; Frequently Asked Questions; Chapter 8: Standardization and Certification Fuzzing and the Corporate Environment Software Security Testing, the Challenges; Testing for Security; Fuzzing as a Viable Option; Business Pressure; Software Security Certification; Meeting Standards and Compliance; Tester Certification; Industry Pressure; Antivirus Product Testing and Certification; Chapter 9: What Is a File?; Introduction; Are File Fuzzers Special?; Analyzing and Building Files; Textual Files; Binary Files; Running the Test; Monitoring the Application with the Test Cases; Chapter 10: Code Coverage and Fuzzing; Introduction; Code Coverage; Obtaining Code Coverage Instrumenting the Binary

Sommario/riassunto

A "fuzzer" is a program that attempts to discover security vulnerabilities by sending random data to an application. If that application crashes, then it has defects to correct. Security professionals and web developers can use fuzzing for software testing--checking their own programs for problems--before hackers do it! Open Source Fuzzing Tools is the first book to market that covers the subject of black box testing using fuzzing techniques. Fuzzing has been around for a while, but is making a transition from hacker home-grown tool to commercial-grade quality assurance

2. Record Nr.	UNINA9910845477903321
Titolo	Advanced Hybrid Information Processing : 7th EAI International Conference, ADHIP 2023, Harbin, China, September 22-24, 2023, Proceedings, Part II // edited by Lin Yun, Jiang Han, Yu Han
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031505461 3031505468
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (XIV, 477 p. 192 illus., 59 illus. in color.)
Collana	Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, , 1867-822X ; ; 548
Disciplina	006.312
Soggetti	Data mining Computer networks Artificial intelligence Application software Computer systems Data Mining and Knowledge Discovery Computer Communication Networks Artificial Intelligence Computer and Information Systems Applications Computer System Implementation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	A Method for Integrating Sports Information Resources Based on Fuzzy Clustering Algorithm -- Research on Energy Consumption Data Monitoring of Smart Parks Based on IoT Technology -- Design of a Multidimensional Teaching Effectiveness Evaluation System Based on Information Integration -- Evaluation Method of Higher Vocational Online Education Effect Based on Data Mining Algorithm -- Wireless Networks for Social Information Processing, Civilian Radar Signal Processing -- Processing Method of Civil Radar Echo Signal Based on Kalman Filter Algorithm -- Frequency Offset Estimation of X band Marine Radar Sampling Signal Based on Phase Difference -- Terrain Echo Signal Enhancement Technology of Marine Radar Based on

Generalized Filtering -- Design and Improvement of Airborne Ocean Radar Fault Detection Algorithm -- An Automatic Control Algorithm for Sampling and Timing of Civil Radar Signal Based on DSP -- Design of Control System for Constant Speed Variable Multi Target Tracking Method for Rail Transit Crossing Based on Transient Electromagnetic Radar -- Pitch Loaded Multi Axis Unmanned Aerial Vehicle Based on Lidar Technology -- Research on Railway Frequency Shift Signal Detection Based on Transient Electromagnetic Radar -- Multi Target Tracking Method for Rail Transit Crossing Based on Transient Electromagnetic Radar -- A Data Mining and Processing Method for E-commerce Potential Customers Based on Apriori Association Rules Algorithm -- Design of English Mobile Online Education Platform Based on GPRS/CDMA and Internet -- Application of Artificial Intelligence Technology on Online Cultural Education Mobile Terminal -- College Psychological Mobile Education System Based on GPRS/CDMA and Internet -- Path Planning Method of Garbage Cleaning Robot Based on Mobile Communication Network -- Research on Electrical Equipment Status Monitoring Method Based on Wireless Communication Technology -- The Application and Research of Intelligent Mobile Terminal in Mixed Listening and Speaking Teaching of College English -- Research on Anti-interference Dynamic Allocation Algorithm of Channel Resources in Heterogeneous Cellular Networks for Social Communication -- Numerical Simulation of Dual Laterolog Response Based on Wireless Communication Technology -- Sharing Method of Online Physical Education Teaching Resources in Higher Vocational Colleges Based on Soa Architecture and Wireless Network -- Wireless Networks for Social Information Processing, Image Information Processing -- Application of Intelligent Mobile Terminal in Virtual Building Construction Training Teaching -- Numerical Simulation Model Construction of Swept Frequency Dielectric Logging Response Based on Wireless Communication -- Sports Athlete Error Action Recognition System Based on Wireless Communication Network -- Design of Adaptive Detection Algorithm for Mobile Social Network Security Vulnerability Based on Static Analysis -- Dynamic Mining of Wireless Network Information Transmission Security Vulnerabilities Based on Spatiotemporal Dimension -- The Intelligent Monitoring System of University Personnel File Falsification Data Based on Wireless Network -- Research on Image Super Resolution Reconstruction Based on Depth Learning -- Classification of Hyperspectral Remote Sensing Images Based on Three-Dimensional Convolutional Neural Network Model -- Texture Image Feature Enhancement Processing Method Based on Visual Saliency Model.

Sommario/riassunto

This four-volume set constitutes the post-conference proceedings of the 7th EAI International Conference on Advanced Hybrid Information Processing, ADHIP 2023, held in Harbin, China, during September 22-24, 2023. The 108 full papers presented were selected from 270 submissions and focus on theory and application of hybrid information processing technology for smarter and more effective research and application. The theme of ADHIP 2022 was Hybrid Information Processing in Meta World. The papers are named in topical sections as follows: wireless communication for social information processing, artificial intelligence technology; Mobile education, mobile monitoring, behavior understanding and object tracking; wireless networks for social information processing, image information processing; mobile monitoring, civilian audio and acoustic signal processing.