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Android Security Attacks And Defenses

Sean-Philip Oriyano, Robert Shimonski



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Client-Side Attacks and Defense Sean-Philip Oriyano,Robert Shimonski,2012-09-28 Client Side Attacks and Defense offers background networks

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New Threats and Countermeasures in Digital Crime and Cyber Terrorism Dawson, Maurice, Omar, Marwan, 2015-04-30 Technological advances although beneficial and progressive can lead to vulnerabilities in system networks and security While researchers attempt to find solutions negative uses of technology continue to create new security threats to users New Threats and Countermeasures in Digital Crime and Cyber Terrorism brings together research based chapters and case studies on security techniques and current methods being used to identify and overcome technological vulnerabilities with an emphasis on security issues in mobile computing and online activities This book is an essential reference source for researchers university academics computing professionals and upper level students interested in the techniques laws and training initiatives currently being implemented and adapted for secure computing

Proceedings of the Future Technologies Conference (FTC) 2019 Kohei Arai, Rahul Bhatia, Supriya Kapoor, 2019-10-09 This book presents state of the art intelligent methods and techniques for solving real world problems and offers a vision of future research Featuring 143 papers from the 4th Future Technologies Conference held in San Francisco USA in 2019 it covers a wide range of important topics including but not limited to computing electronics artificial intelligence robotics security and communications and their applications to the real world As such it is an interesting exciting and inspiring read

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Applied Cryptography and Network Security Mark Manulis, Ahmad-Reza Sadeghi, Steve Schneider, 2016-06-09 This book constitutes the refereed proceedings of the 14th International Conference on Applied

Cryptography and Network Security ACNS 2016 held in Guildford UK in June 2016 5 The 35 revised full papers included in this volume and presented together with 2 invited talks were carefully reviewed and selected from 183 submissions ACNS is an annual conference focusing on innovative research and current developments that advance the areas of applied cryptography cyber security and privacy

Mobile OS Vulnerabilities Shivi Garg,Niyati Baliyan,2023-08-17 This is book offers in depth analysis of security vulnerabilities in different mobile operating systems It provides methodology and solutions for handling Android malware and vulnerabilities and transfers the latest knowledge in machine learning and deep learning models towards this end Further it presents a comprehensive analysis of software vulnerabilities based on different technical parameters such as causes severity techniques and software systems type Moreover the book also presents the current state of the art in the domain of software threats and vulnerabilities This would help analyze various threats that a system could face and subsequently it could guide the securityengineer to take proactive and cost effective countermeasures Security threats are escalating exponentially thus posing a serious challenge to mobile platforms Android and iOS are prominent due to their enhanced capabilities and popularity among users Therefore it is important to compare these two mobile platforms based on security aspects Android proved to be more vulnerable compared to iOS The malicious apps can cause severe repercussions such as privacy leaks app crashes financial losses caused by malware triggered premium rate SMSs arbitrary code installation etc Hence Android security is a major concern amongst researchers as seen in the last few years This book provides an exhaustive review of all the existing approaches in a structured format The book also focuses on the detection of malicious applications that compromise users security and privacy the detection performance of the different program analysis approach and the influence of different input generators during static and dynamic analysis on detection performance This book presents a novel method using an ensemble classifier scheme for detecting malicious applications which is less susceptible to the evolution of the Android ecosystem and malware compared to previous methods The book also introduces an ensemble multi class classifier scheme to classify malware into known families Furthermore we propose a novel framework of mapping malware to vulnerabilities exploited using Android malware s behavior reports leveraging pre trained language models and deep learning techniques The mapped vulnerabilities can then be assessed on confidentiality integrity and availability on different Android components and sub systems and different layers

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