Graeme Proudler
Liqun Chen
Chris Dalton

Trusted Computing Platforms

TPM2.0 in Context

Springer

Trusted Computing Platforms Tpm2 0 In Context

Steven L. Kinney

Trusted Computing Platforms Tpm2 0 In Context:

Trusted Computing Platforms Graeme Proudler,Liqun Chen,Chris Dalton,2015-01-08 In this book the authors first describe the background of trusted platforms and trusted computing and speculate about the future They then describe the technical features and architectures of trusted platforms from several different perspectives finally explaining second generation TPMs including a technical description intended to supplement the Trusted Computing Group s TPM2 specifications The intended audience is IT managers and engineers and graduate students in information security

Information and Communication Technology for Intelligent Systems Tomonobu Senjyu,Parikshit N. Mahalle,Thinagaran Perumal,Amit Joshi,2020-10-29 This book gathers papers addressing state of the art research in all areas of information and communication technologies and their applications in intelligent computing cloud storage data mining and software analysis It presents the outcomes of the Fourth International Conference on Information and Communication Technology for Intelligent Systems which was held in Ahmedabad India Divided into two volumes the book discusses the fundamentals of various data analysis techniques and algorithms making it a valuable resource for researchers and practitioners alike *Information Systems Security and Privacy* Gabriele Lenzini,Paolo Mori,Steven Furnell,2025-07-21 This book constitutes the refereed post proceedings of the 9th and 10th International Conference on Information Systems Security and Privacy ICISSP 2023 and 2024 held in Lisbon Portugal and in Rome Italy during February 22 24 2023 and February 26 28 2024 respectively The 15 full papers included in this book were carefully reviewed and selected from 285 submissions These papers have been organized under the following topical sections Management and operations Applications and services and Technologies and foundations EU Internet Law in the Digital Era Tatiana-Eleni Synodinou,Philippe Jougleux,Christiana Markou,Thalia Prastitou,2019-10-18 The book provides a detailed overview and analysis of important EU Internet regulatory challenges currently found in various key fields of law directly linked to the Internet such as information technology consumer protection personal data e commerce and copyright law In addition it aims to shed light on the content and importance of various pending legislative proposals in these fields and of the Court of Justice of the European Union s recent case law in connection with solving the different problems encountered The book focuses on challenging legal questions that have not been sufficiently analyzed while also presenting original thinking in connection with the regulation of emerging legal questions As such it offers an excellent reference tool for researchers policymakers judges practitioners and law students with a special interest in EU Internet law and regulation Digital Manufacturing Chandrakant D. Patel,Chun-Hsien Chen,2023-12-01 Digital Manufacturing Key Elements of a Digital Factory explains the different devices and agents at the factory floor level that are driving the digital manufacturing revolution including autonomous robots process automation artificial intelligence and cyber physical systems Individual chapters explore the fundamentals and benefits of major digital manufacturing tools including robotics the industrial internet of things digital twins edge security

knowledge discovery service centric production and related supply chain strategies Real world case studies from industry are provided throughout to show how these work in practice In addition to learning about individual technologies readers will discover how they are integrating to drive the digital transformation of manufacturing ecosystem Final sections present new business models working towards sustainable net zero operations and economy Helps produce the T shaped engineers needed in today s digital manufacturing age by providing carefully selected foundational information from a range of disciplines Includes important coverage of cybersecurity models and analysis Draws on industry best practice to explain how to implement cutting edge technologies successfully **Trusted Computing and Information Security** Weili Han,Liehuang Zhu,Fei Yan,2020-02-19 This book constitutes the refereed proceedings of the Chinese Conference on Trusted Computing and Information Security CTCIS 2019 held in Shanghai China in October 2019 The 22 revised full papers presented were carefully reviewed and selected from 247 submissions The papers are centered around cryptography systems security trusted computing information security network security information hiding **Trust and Trustworthy Computing** Mauro Conti,Matthias Schunter,Ioannis Askoxylakis,2015-08-13 This book constitutes the refereed proceedings of the 8th International Conference on Trust and Trustworthy Computing TRUST 2015 held in Heraklion Crete Greece in August 2015 The 15 full papers and 3 short papers presented in this volume were carefully reviewed and selected from 42 submissions They were organized in topical sections named hardware enhanced trusted execution trust and users trusted systems and services trust and privacy and building blocks for trust There are 7 two page abstracts of poster papers included in the back matter of the volume Trusted Platform Module Basics Steven L. Kinney,2006-09-13 Clear practical tutorial style text with real world applications First book on TPM for embedded designers Provides a sound foundation on the TPM helping designers take advantage of hardware security based on sound TCG standards Covers all the TPM basics discussing in detail the TPM Key Hierarchy and the Trusted Platform Module specification Presents a methodology to enable designers and developers to successfully integrate the TPM into an embedded design and verify the TPM s operation on a specific platform This sound foundation on the TPM provides clear practical tutorials with detailed real world application examples The author is reknowned for training embedded systems developers to successfully implement the TPM worldwide A Practical Guide to TPM 2.0 Will Arthur,David Challener,2015-01-28 A Practical Guide to TPM 2 0 Using the Trusted Platform Module in the New Age of Security is a straight forward primer for developers It shows security and TPM concepts demonstrating their use in real applications that the reader can try out Simply put this book is designed to empower and excite the programming community to go out and do cool things with the TPM The approach is to ramp the reader up quickly and keep their interest A Practical Guide to TPM 2 0 Using the Trusted Platform Module in the New Age of Security explains security concepts describes the TPM 2 0 architecture and provides code and pseudo code examples in parallel from very simple concepts and code to highly complex concepts and pseudo code The book includes instructions for the available

execution environments and real code examples to get readers up and talking to the TPM quickly The authors then help the users expand on that with pseudo code descriptions of useful applications using the TPM **Trusted Platform Modules** Ariel Segall,2016-11-23 This book describes the primary uses for Trusted Platform Modules TPMs and practical considerations such as when TPMs can and should be used when they shouldn t be what advantages they provide and how to actually make use of them with use cases and worked examples of how to implement these use cases on a real system

Intel® Trusted Execution Technology for Server Platforms William Futral,James Greene,2013-09-23 This book guides the server administrator datacenter manager in enabling the technology as well as establishing a launch control policy that he can use to customize the server s boot process to fit the datacenter s requirements This book explains how the OS typically a Virtual Machine Monitor or Hypervisor and supporting software can build on the secure facilities afforded by Intel TXT to provide additional security features and functions It provides examples how the datacenter can create and use trusted pools

TPM (Trusted Platform Module) als Kern von Trusted Computing ,2014 *A Practical Guide to TPM 2.0* Will Arthur,David Challener,Kenneth Goldman,2015 A Practical Guide to TPM 2 0 Using the Trusted Platform Module in the New Age of Security is a straight forward primer for developers It shows security and TPM concepts demonstrating their use in real applications that the reader can try out Simply put this book is designed to empower and excite the programming community to go out and do cool things with the TPM The approach is to ramp the reader up quickly and keep their interest A Practical Guide to TPM 2 0 Using the Trusted Platform Module in the New Age of Security explains security concepts describes the TPM 2 0 architecture and provides code and pseudo code examples in parallel from very simple concepts and code to highly complex concepts and pseudo code The book includes instructions for the available execution environments and real code examples to get readers up and talking to the TPM quickly The authors then help the users expand on that with pseudo code descriptions of useful applications using the TPM **Developing and Securing the Cloud** Bhavani Thuraisingham,2013-10-28 Although the use of cloud computing platforms and applications has expanded rapidly most books on the subject focus on high level concepts There has long been a need for a book that provides detailed guidance on how to develop secure clouds Filling this void Developing and Securing the Cloud provides a comprehensive overview of cloud computing t **Specification of a Trusted Computing Base (TCB).** ,1979 A Trusted Computing Base TCB is the totality of access control mechanisms for an operating system A TCB should provide both a basic protection environment and the additional user services required for a trustworthy turnkey system The basic protection environment is equivalent to that provided by a security kernel the user services are analogous to the facilities provided by trusted processes in kernel based systems This report documents the performance design and development requirements for a TCB for a general purpose operating system The information in this report is made available to stimulate technical discussion among industry and government personnel Preliminary Analysis of a Trusted Platform Module (TPM) Initialization Process ,2007 As

distributed system architectures such as peer to peer grid computing and MANET become more popular there is an increasing need for robust and scalable mechanisms to establish trust between entities The Trusted Platform Module TPM provides for the possibility to establish trust at the hardware level for commercial hardware While work has been done to leverage TPMs for Digital Rights Management DRM and other schemes application of TPMs for robust identification and authentication in a MANET or other distributed environment have not been addressed This research provides a simple analysis on the applicability of leveraging TPMs for enhanced computer security in today s military environment A military convoy using laptops in a MANET is used as a hypothetical concept of operations The problem of TPM initialization of a laptop in particular at a depot prior to deployment is addressed The initialization steps that must be performed before using a TPM in any deployment have been studied and described and suggestions are provided to address possible DoD concerns in using this technology

Enjoying the Track of Expression: An Mental Symphony within **Trusted Computing Platforms Tpm2 0 In Context**

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