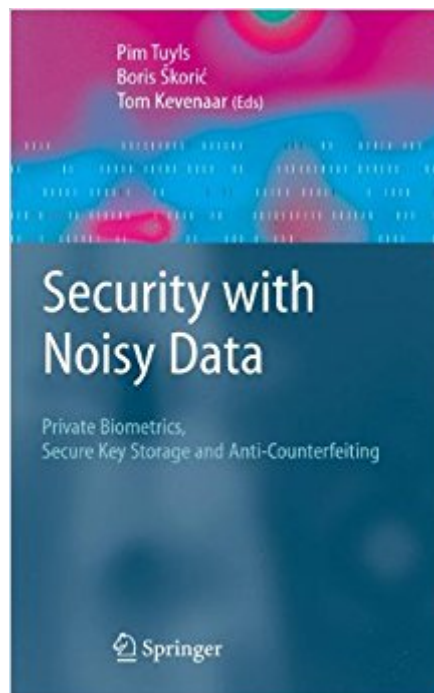




Ebook Directory
the best source of ebook

The book was found

Security With Noisy Data: On Private Biometrics, Secure Key Storage And Anti-Counterfeiting



Synopsis

Noisy data appear very naturally in applications where the authentication is based on physical identifiers. This book provides a self-contained overview of the techniques and applications of security based on noisy data. It provides a comprehensive overview of the theory of extracting cryptographic keys from noisy data, and describes applications in the field of biometrics, secure key storage, and anti-counterfeiting.

Book Information

Hardcover: 340 pages

Publisher: Springer; 2007 edition (October 15, 2007)

Language: English

ISBN-10: 1846289831

ISBN-13: 978-1846289835

Product Dimensions: 6.1 x 0.8 x 9.2 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #3,933,835 in Books (See Top 100 in Books) #100 in Books > Science & Math > Physics > Entropy #653 in Books > Textbooks > Computer Science > Algorithms #778 in Books > Computers & Technology > Certification > CompTIA

Customer Reviews

"This is a fascinating text for those interested in, and prepared to explore, the latest developments in information security. It is a difficult read for the casual reader, but for the technically savvy security professional interested in the latest developments in biometrics, key security, and anti-counterfeiting, this book should be required reading." Charles K. Davis, ACM Computing Reviews, February 2009)

Noisy data appears very naturally in applications where the authentication is based on physical identifiers, such as human beings, or physical structures, such as physical unclonable functions. This book examines how the presence of noise has an impact on information security, describes how it can be dealt with and possibly used to generate an advantage over traditional approaches, and provides a self-contained overview of the techniques and applications of security based on noisy data. Security with Noisy Data thoroughly covers the theory of authentication based on noisy data and shows it in practice as a key tool for preventing counterfeiting. Part I discusses security

primitives that allow noisy inputs, and Part II focuses on the practical applications of the methods discussed in the first part. Key features:

- Contains algorithms to derive secure keys from noisy data, in particular from physical unclonable functions and biometrics - as well as the theory proving that those algorithms are secure
- Offers practical implementations of algorithms, including techniques that give insight into system security
- Includes an overview and detailed description of new applications made possible by using these new algorithms
- Discusses recent theoretical as well as application-oriented developments in the field, combining noisy data with cryptography
- Describes the foundations of the subject in a clear, accessible and reader-friendly style
- Presents the principles of key establishment and multiparty computation over noisy channels
- Provides a detailed overview of the building blocks of cryptography for noisy data and explains how these techniques can be applied, (for example as anti-counterfeiting and key storage)
- Introduces privacy protected biometric systems, analyzes the theoretical and practical properties of PUFs and discusses PUF based systems
- Addresses biometrics and physical unclonable functions extensively

This comprehensive introduction offers an excellent foundation to graduate students and researchers entering the field, and will also benefit professionals needing to expand their knowledge. Readers will gain a well-rounded and broad understanding of the topic through the insight it provides into both theory and practice. Pim Tuyls is a Principal Scientist at Philips Research and a Visiting Professor at the COSIC Department of the Katholieke Universiteit of Leuven, Dr Boris Skoric and Dr Tom Kevenaar are research scientists at Philips Research Laboratories, Eindhoven.

I had never been a fan of books like this (compilations of existing research) and in fact had never purchased one as I always felt I could download the various authors' papers (usually) for free online and simply read those. After reading (most of) this book, I am convinced that the editors put a good deal of time into making sure the book flowed well and presented things in a way that simply downloading the papers would not give. Maybe it is just this particular book (remember this is my first book of this nature). If so, I'll eat my words with my next purchase. On to the material. It seems the editors have worked very hard to make this book approachable to someone with no experience in the particular field. I have a strong background in cryptography, but biometrics and security with noisy data in general was completely new to me. I felt that this book has given me a solid foundation in the area and have already cited a few chapters from it in a paper I am working on. Way to go!

[Download to continue reading...](#)

Security with Noisy Data: On Private Biometrics, Secure Key Storage and Anti-Counterfeiting Anti

Aging: The Best Anti Aging Beauty Products, Anti Aging Medicines and Anti Aging Skin Care Treatments to Make You Look and Feel Younger (Anti Aging, ... Secrets, Anti Aging Diet, Beauty Products) ANTI INFLAMMATORY DIET: ANTI INFLAMMATORY COOKBOOK: ANTI INFLAMMATION: 500 Healthy and Delicious Anti Inflammatory Diet Recipes to Heal your Immune System(anti ... inflammatory foods, allergen management) Big Data For Business: Your Comprehensive Guide to Understand Data Science, Data Analytics and Data Mining to Boost More Growth and Improve Business - Data Analytics Book, Series 2 Data Analytics: What Every Business Must Know About Big Data And Data Science (Data Analytics for Business, Predictive Analysis, Big Data Book 1) Data Analytics: Applicable Data Analysis to Advance Any Business Using the Power of Data Driven Analytics (Big Data Analytics, Data Science, Business Intelligence Book 6) Anti Inflammatory Diet: Guide to Eliminate Joint Pain, Improve Your Immune System, and Restore Your Overall Health (anti inflammatory cookbook, anti inflammatory ... recipes, anti inflammatory strategies) Anti Inflammatory Diet: 5 Week Anti Inflammatory Diet Plan To Restore Overall Health And Become Free Of Chronic Pain For Life (Top Anti-Inflammatory Diet Recipes, Anti Inflammatory Diet For Dummies) Secure Web Application Deployment using OWASP Standards: An expert way of Secure Web Application deployment Analytics: Data Science, Data Analysis and Predictive Analytics for Business (Algorithms, Business Intelligence, Statistical Analysis, Decision Analysis, Business Analytics, Data Mining, Big Data) Social Security & Medicare Facts 2016: Social Security Coverage, Maximization Strategies for Social Security Benefits, Medicare/Medicaid, Social Security Taxes, Retirement & Disability, Ser Nora Roberts Key Trilogy CD Collection: Key of Light, Key of Knowledge, Key of Valor Anti Aging Essentials, Secrets and Tips: Your Midlife Encyclopedia, Improve Diet, Exercise, Skin (Look and Feel Younger, (Anti Aging Secrets, Anti Aging Diet) Paleo Anti Inflammatory: 500 Paleo Anti Inflammatory Spiralizer and Air Fryer Recipes: Paleo Cookbook, Breakfast, Lunch, Snack, Quick and Easy Healthy Recipes for Weight Loss, Anti Infammatory 10 Years Younger: Breakthrough Antioxidants That Reverse The Aging Process, Diminish Wrinkles And Help You Lose Weight For Good! (Anti-Aging, Anti Aging, ... Superfoods, Aging, Wrinkles, Anti Wrinkle) Anti Inflammatory Diet Action Plan: 6 Week Meal Plans To Heal Yourself With Food, Restore Overall Health And Become Pain Free (Anti Inflammatory Diet, ... Anti Inflammatory Diet Plan) (Volume 2) Anti Inflammatory Diet Action Plan: 6 Week Meal Plans To Heal Yourself With Food, Restore Overall Health And Become Pain Free (Anti Inflammatory Diet, ... Anti Inflammatory Diet Plan Book 2) Anti Inflammatory Diet: Autoimmune Dinner Recipes: 30+ Anti Inflammation Diet Recipes To Fight Autoimmune Disease, Reduce Pain And Restore Health (Autoimmune ... Disease, Anti-Inflammatory Diet, Cookbook) Anti Inflammatory Diet: Autoimmune Lunch Recipes: 35+ Anti

Inflammation Diet Recipes To Fight Autoimmune Disease, Reduce Pain And Restore Health
(Autoimmune ... Anti-Inflammatory Diet, Cookbook Book 2) Anti Inflammatory Diet: 1000 Anti
Inflammatory Recipes: Anti Inflammatory Cookbook, Kitchen, Cooking, Healthy, Low Carb, Paleo,
Meals, Diet Plan, Cleanse, Whole Food, Weight Loss, For Beginners

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)