



# Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection

By Christian Collberg, Jasvir Nagra

[Download now](#)

[Read Online](#) 

**Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection** By Christian Collberg, Jasvir Nagra

*“This book gives thorough, scholarly coverage of an area of growing importance in computer security and is a ‘must have’ for every researcher, student, and practicing professional in software protection.”*

—Mikhail Atallah, Distinguished Professor of Computer Science at Purdue University

## Theory, Techniques, and Tools for Fighting Software Piracy, Tampering, and Malicious Reverse Engineering

The last decade has seen significant progress in the development of techniques for resisting software piracy and tampering. These techniques are indispensable for software developers seeking to protect vital intellectual property.

*Surreptitious Software* is the first authoritative, comprehensive resource for researchers, developers, and students who want to understand these approaches, the level of security they afford, and the performance penalty they incur.

Christian Collberg and Jasvir Nagra bring together techniques drawn from related areas of computer science, including cryptography, steganography, watermarking, software metrics, reverse engineering, and compiler optimization. Using extensive sample code, they show readers how to implement protection schemes ranging from code obfuscation and software fingerprinting to tamperproofing and birthmarking, and discuss the theoretical and practical limitations of these techniques.

Coverage includes

- Mastering techniques that both attackers and defenders use to analyze programs
- Using code obfuscation to make software harder to analyze and understand

- Fingerprinting software to identify its author and to trace software pirates
- Tamperproofing software using guards that detect and respond to illegal modifications of code and data
- Strengthening content protection through dynamic watermarking and dynamic obfuscation
- Detecting code theft via software similarity analysis and birthmarking algorithms
- Using hardware techniques to defend software and media against piracy and tampering
- Detecting software tampering in distributed system
- Understanding the theoretical limits of code obfuscation

 [Download Surreptitious Software: Obfuscation, Watermarking, ...pdf](#)

 [Read Online Surreptitious Software: Obfuscation, Watermarkin ...pdf](#)

# **Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection**

*By Christian Collberg, Jasvir Nagra*

**Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection** By Christian Collberg, Jasvir Nagra

*“This book gives thorough, scholarly coverage of an area of growing importance in computer security and is a ‘must have’ for every researcher, student, and practicing professional in software protection.”*

—Mikhail Atallah, Distinguished Professor of Computer Science at Purdue University

## **Theory, Techniques, and Tools for Fighting Software Piracy, Tampering, and Malicious Reverse Engineering**

The last decade has seen significant progress in the development of techniques for resisting software piracy and tampering. These techniques are indispensable for software developers seeking to protect vital intellectual property. *Surreptitious Software* is the first authoritative, comprehensive resource for researchers, developers, and students who want to understand these approaches, the level of security they afford, and the performance penalty they incur.

Christian Collberg and Jasvir Nagra bring together techniques drawn from related areas of computer science, including cryptography, steganography, watermarking, software metrics, reverse engineering, and compiler optimization. Using extensive sample code, they show readers how to implement protection schemes ranging from code obfuscation and software fingerprinting to tamperproofing and birthmarking, and discuss the theoretical and practical limitations of these techniques.

Coverage includes

- Mastering techniques that both attackers and defenders use to analyze programs
- Using code obfuscation to make software harder to analyze and understand
- Fingerprinting software to identify its author and to trace software pirates
- Tamperproofing software using guards that detect and respond to illegal modifications of code and data
- Strengthening content protection through dynamic watermarking and dynamic obfuscation
- Detecting code theft via software similarity analysis and birthmarking algorithms
- Using hardware techniques to defend software and media against piracy and tampering
- Detecting software tampering in distributed system
- Understanding the theoretical limits of code obfuscation

**Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection** By Christian Collberg,

## **Jasvir Nagra Bibliography**

- Sales Rank: #1303368 in Books
- Published on: 2009-08-03
- Released on: 2009-07-24
- Original language: English
- Number of items: 1
- Dimensions: 8.80" h x 1.70" w x 7.00" l, 2.65 pounds
- Binding: Paperback
- 792 pages



[\*\*Download Surreptitious Software: Obfuscation, Watermarking, ...pdf\*\*](#)



[\*\*Read Online Surreptitious Software: Obfuscation, Watermarkin ...pdf\*\*](#)

## Download and Read Free Online Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection By Christian Collberg, Jasvir Nagra

---

### Editorial Review

#### From the Back Cover

""This book gives thorough, scholarly coverage of an area of growing importance in computer security and is a 'must have' for every researcher, student, and practicing professional in software protection.""

-Mikhail Atallah, Distinguished Professor of Computer Science at Purdue University

Theory, Techniques, and Tools for Fighting Software Piracy, Tampering, and Malicious Reverse Engineering

The last decade has seen significant progress in the development of techniques for resisting software piracy and tampering. These techniques are indispensable for software developers seeking to protect vital intellectual property. "Surreptitious Software" is the first authoritative, comprehensive resource for researchers, developers, and students who want to understand these approaches, the level of security they afford, and the performance penalty they incur.

Christian Collberg and Jasvir Nagra bring together techniques drawn from related areas of computer science, including cryptography, steganography, watermarking, software metrics, reverse engineering, and compiler optimization. Using extensive sample code, they show readers how to implement protection schemes ranging from code obfuscation and software fingerprinting to tamperproofing and birthmarking, and discuss the theoretical and practical limitations of these techniques.

Coverage includes

Mastering techniques that both attackers and defenders use to analyze programsUsing code obfuscation to make software harder to analyze and understandFingerprinting software to identify its author and to trace software pirates Tamperproofing software using guards that detect and respond to illegal modifications of code and dataStrengthening content protection through dynamic watermarking and dynamic obfuscation

Detecting code theft via software similarity analysis and birthmarking algorithmsUsing hardware techniques to defend software and media against piracy and tampering Detecting software tampering in distributed systemUnderstanding the theoretical limits of code obfuscation

#### About the Author

**Christian Collberg** received a B.Sc. in computer science and numerical analysis and a Ph.D. in computer science from Lund University, Sweden. He is currently an associate professor in the department of computer science at the University of Arizona and has also worked at the University of Auckland, New Zealand, and the Chinese Academy of Sciences in Beijing. Professor Collberg is a leading researcher in the intellectual property protection of software, and also maintains an interest in compiler and programming language research. In his spare time he writes songs, sings, and plays guitar for The Zax and hopes one day to finish his Great Swedish Novel.

**Jasvir Nagra** received his B.Sc. in mathematics and computer science and a Ph.D. in computer science from the University of Auckland, New Zealand. He's been a postdoctoral scholar on the RE-TRUST project at the University of Trento, where his focus is on applying obfuscation, tamperproofing, and watermarking techniques to protect the integrity of software executing on a remote untrusted platform. His research interests also include the design of programming languages and its impact on the security of applications. He's currently with Google Inc., where he is building Caja, an open source, secure subset of JavaScript. In his spare time Jasvir dabbles with Lego and one day hopes to finish building his Turing machine made entirely out of Lego blocks.

## Users Review

### From reader reviews:

#### **Keith Smith:**

Throughout other case, little persons like to read book Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection. You can choose the best book if you love reading a book. So long as we know about how is important any book Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection. You can add expertise and of course you can around the world with a book. Absolutely right, simply because from book you can recognize everything! From your country until eventually foreign or abroad you may be known. About simple matter until wonderful thing it is possible to know that. In this era, we can easily open a book or searching by internet unit. It is called e-book. You can use it when you feel weary to go to the library. Let's examine.

#### **Leslie Babcock:**

What do you think about book? It is just for students because they're still students or the item for all people in the world, what the best subject for that? Merely you can be answered for that concern above. Every person has distinct personality and hobby for every other. Don't to be forced someone or something that they don't would like do that. You must know how great and also important the book Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection. All type of book can you see on many resources. You can look for the internet methods or other social media.

#### **Stephen Adams:**

Information is provisions for individuals to get better life, information today can get by anyone from everywhere. The information can be a information or any news even restricted. What people must be consider whenever those information which is within the former life are challenging to be find than now's taking seriously which one would work to believe or which one the particular resource are convinced. If you obtain the unstable resource then you obtain it as your main information you will see huge disadvantage for you. All those possibilities will not happen within you if you take Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection as your daily resource information.

#### **Delaine Valencia:**

A lot of people always spent their very own free time to vacation or maybe go to the outside with them loved ones or their friend. Did you know? Many a lot of people spent these people free time just watching TV, as well as playing video games all day long. If you want to try to find a new activity that is look different you can read any book. It is really fun for you. If you enjoy the book which you read you can spent the entire day to reading a book. The book Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for

Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection it doesn't matter what good to read. There are a lot of folks that recommended this book. These people were enjoying reading this book. Should you did not have enough space to bring this book you can buy the e-book. You can m0ore very easily to read this book through your smart phone. The price is not to cover but this book features high quality.

**Download and Read Online Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection By Christian Collberg, Jasvir Nagra #S4QPG3O9JDI**

# **Read Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection By Christian Collberg, Jasvir Nagra for online ebook**

Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection By Christian Collberg, Jasvir Nagra Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection By Christian Collberg, Jasvir Nagra books to read online.

## **Online Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection By Christian Collberg, Jasvir Nagra ebook PDF download**

Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection By Christian Collberg, Jasvir Nagra Doc

Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection By Christian Collberg, Jasvir Nagra MobiPocket

Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection By Christian Collberg, Jasvir Nagra EPub

S4QPG3O9JDI: Surreptitious Software: Obfuscation, Watermarking, and Tamperproofing for Software Protection: Obfuscation, Watermarking, and Tamperproofing for Software Protection By Christian Collberg, Jasvir Nagra