



Cyberpatterns: Unifying Design Patterns with Security and Attack Patterns

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Cyberspace is increasingly important to people in their everyday lives for purchasing goods on the Internet, to energy supply increasingly managed remotely using Internet protocols. Unfortunately, this dependence makes us susceptible to attacks from nation states, terrorists, criminals and hactivists. Therefore, we need a better understanding of cyberspace, for which patterns, which are predictable regularities, may help to detect, understand and respond to incidents better. The inspiration for the workshop came from the existing work on formalising design patterns applied to cybersecurity, but we also need to understand the many other types of patterns that arise in cyberspace.

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Editorial Review

Review

From the book reviews:

“It is recommended reading for academics with an interest in the area. Its secondary audience would be security professionals and software developers. ... This well-written book achieves its purposes--to describe the current state of research in the subject area and to outline directions for future research--quite well.” (Neil D. Burgess, Computing Reviews, September, 2014)

From the Back Cover

Cyberpatterns are predictable regularities in cyberspace helping us to design and implement more effective and secure systems, and to detect and respond to breaches, failures and deficiencies in operational systems.

Cyberpatterns is in its infancy and there are many challenges including:

- Developing a scientific foundation of pattern-oriented research methods
- Developing better engineering practice in novel application domains such as for cloud and cyberphysical systems
- Constructing a sharable knowledge-base to aid education of students, design of novel systems and the development of automated design tools
- Innovative applications of design patterns to pattern recognition and big data

Highlights:

- Presents the state-of-the-art in the novel field of cyberpatterns
- Demonstrates the application of patterns to cyber security and other key cyberspace domains
- Supports the development of a sound scientific, engineering and mathematical foundation for cyberspace

This important new book provides an introduction to and coverage of the state-of-the-art of cyberpatterns, from a theoretical standpoint and via practical applications, bringing together different interdisciplinary areas under one roof to portray a holistic view of the underlying principles and mechanisms of cyberpatterns.

Clive Blackwell is an Associate Lecturer at Oxford Brookes University specialising in cyber security and digital forensics

Hong Zhu is a Professor at Oxford Brookes University where he is Head of the Applied Formal Methods Research Group. He has a longstanding interest in design patterns and is the author of ‘Software design methodology: from principles to architectural styles’

Users Review

From reader reviews:

Floyd Wyatt:

Hey guys, do you wish to find a new book to learn? Maybe the book with the headline Cyberpatterns: Unifying Design Patterns with Security and Attack Patterns suitable to you? The actual book was written by renowned writer in this era. The particular book entitled Cyberpatterns: Unifying Design Patterns with Security and Attack Patterns is one of several books that everyone reads now. This kind of book was inspired a number of people in the world. When you read this e-book you will enter the new way of measuring that you ever know ahead of. The author explained their thought in the simple way, so all of people can easily to recognise the core of this reserve. This book will give you a large amount of information about this world now. To help you to see the represented of the world in this book.

Robert Alcock:

People live in this new time of lifestyle always make an effort to and must have the time or they will get large amount of stress from both daily life and work. So, when we ask do people have extra time, we will say absolutely yes. People is human not just a robot. Then we ask again, what kind of activity are there when the spare time coming to anyone of course your answer can unlimited right. Then do you ever try this one, reading guides. It can be your alternative within spending your spare time, the actual book you have read is definitely Cyberpatterns: Unifying Design Patterns with Security and Attack Patterns.

Daniel Metz:

Cyberpatterns: Unifying Design Patterns with Security and Attack Patterns can be one of your beginning books that are good idea. Most of us recommend that straight away because this reserve has good vocabulary which could increase your knowledge in terminology, easy to understand, bit entertaining but nonetheless delivering the information. The article writer giving his/her effort to put every word into satisfaction arrangement in writing Cyberpatterns: Unifying Design Patterns with Security and Attack Patterns however doesn't forget the main stage, giving the reader the hottest along with based confirm resource facts that maybe you can be one among it. This great information can certainly drawn you into new stage of crucial thinking.

John Yates:

Many people spending their time by playing outside having friends, fun activity along with family or just watching TV 24 hours a day. You can have new activity to spend your whole day by reading a book. Ugh, you think reading a book can actually hard because you have to accept the book everywhere? It fine you can have the e-book, bringing everywhere you want in your Smart phone. Like Cyberpatterns: Unifying Design Patterns with Security and Attack Patterns which is getting the e-book version. So, why not try out this book? Let's find.

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