



# Mastering C# Concurrency

*Eugene Agafonov, Andrew Koryavchenko*

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**Create robust and scalable applications along with responsive UI using concurrency and the multi-threading infrastructure in .NET and C#**

## About This Book

- Learn to combine your asynchronous operations with Task Parallel Library
- Master C#'s asynchronous infrastructure and use asynchronous APIs effectively to achieve optimal responsiveness of the application
- An easy-to-follow, example-based guide that helps you to build scalable applications using concurrency in C#

## Who This Book Is For

If you are a C# developer who wants to develop modern applications in C# and wants to overcome problems by using asynchronous APIs and standard patterns, then this book is ideal for you. Reasonable development knowledge, an understanding of core elements and applications related to the .Net platform, and also the fundamentals of concurrency is assumed.

## What You Will Learn

- Apply general multithreading concepts to your application's design
- Leverage lock-free concurrency and learn about its pros and cons to achieve efficient synchronization between user threads
- Combine your asynchronous operations with Task Parallel Library
- Make your code easier with C#'s asynchrony support
- Use common concurrent collections and programming patterns
- Write scalable and robust server-side asynchronous code
- Create fast and responsible client applications
- Avoid common problems and troubleshoot your multi-threaded and asynchronous applications

## In Detail

Starting with the traditional approach to concurrency, you will learn how to write multithreaded concurrent programs and compose ways that won't require locking. You will explore the concepts of parallelism granularity, and fine-grained and coarse-grained parallel tasks by choosing a concurrent program structure and parallelizing the workload optimally. You will also learn how to use task parallel library, cancellations, timeouts, and how to handle errors. You will know how to choose the appropriate data structure for a specific parallel algorithm to achieve scalability and performance. Further, you'll learn about server scalability, asynchronous I/O, and thread pools, and write responsive traditional Windows and Windows Store applications.

By the end of the book, you will be able to diagnose and resolve typical problems that could happen in multithreaded applications.

## Style and approach

An easy-to-follow, example-based guide that will walk you through the core principles of concurrency and multithreading using C#.

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