



Software Patterns, Knowledge Maps, and Domain Analysis

Mohamed Fayad, Huascar A. Sanchez, Srikanth G.K. Hegde, Anshu Basia, Ashka Vakil

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Software design patterns are known to play a vital role in enhancing the quality of software systems while reducing development time and cost. However, the use of these design patterns has also been known to introduce problems that can significantly reduce the stability, robustness, and reusability of software. This book introduces a new process for creating software design patterns that leads to highly stable, reusable, and cost-effective software. The basis of this new process is a topology of software patterns called *knowledge maps*.

This book provides readers with a detailed view of the art and practice of creating meaningful knowledge maps. It demonstrates how to classify software patterns within knowledge maps according to their application rationale and nature. It provides readers with a clear methodology in the form of step-by-step guidelines, heuristics, and quality factors that simplify the process of creating knowledge maps.

This book is designed to allow readers to master the basics of knowledge maps from their theoretical aspects to practical application. It begins with an overview of knowledge map concepts and moves on to knowledge map goals, capabilities, stable design patterns, development scenarios, and case studies. Each chapter of the book concludes with an open research issue, review questions, exercises, and a series of projects.

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