



Pattern-Oriented Software Architecture

Volume 3: Patterns for Resource Management

By Michael Kircher, Prashant Jain

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The first volume of the POSA pattern series introduced a broad-spectrum of general-purpose patterns in software design and architecture. The second narrowed the focus to fundamental patterns for building sophisticated concurrent and networked software systems and applications. This volume uses design patterns to present techniques for implementing effective resource management in a system.

The patterns are covered in detail making use of several examples providing directions to the readers on how to implement the presented patterns. Additionally, the volume presents a thorough introduction into resource management and a case study where the patterns are applied to the domain of mobile radio networks. The patterns are grouped by different areas of resource management and hence address the complete lifecycle of resources: resource acquisition, coordination and release.

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Editorial Review

From the Back Cover

Efficient management of resources is critical in the execution of any kind of software. From embedded software in a mobile device to software in a large enterprise server, it is important that resources, such as memory, threading, files, or network connections, are managed efficiently to allow the systems to function properly and effectively.

As the need for resource management is often discovered late in the software development lifecycle, and changing the system design at this late stage is difficult, it is important that such tasks are performed early in the lifecycle. Since systems belonging to different domains have different system constraints and requirements, a technique that works well in a particular system or configuration might not be so effective in another.

POSA 3 uses patterns to present techniques for implementing effective resource management in a system. The patterns are covered in detail, making use of several examples, and, as in previous POSA volumes, directions are given on how to implement the presented patterns. Additionally, the volume presents a thorough introduction into resource management, and two case studies where the patterns are applied to the domains of ad hoc networking and mobile radio networks. The patterns are grouped by different areas of resource management and hence address the complete lifecycle of resources: resource acquisition, coordination and release.

About the Author

Michael Kircher and Prashant Jain have been active in the patterns community for several years and collaborated closely with the authors of the previous POSA volumes. In their respective companies, Siemens and IBM, both Michael and Prashant are involved in research and consulting in emerging technologies and software architecture.

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