1. Record Nr. UNINA9910483099303321

Titolo	Transactions on pattern languages of programming I / / James Noble, Ralph Johnson (eds.)
Pubbl/distr/stampa	Berlin ; ; New York, : Springer-Verlag, c2009
ISBN	1-280-38535-9 9786613563279 3-642-10832-6
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (IX, 234 p.)
Collana	Lecture notes in computer science, , 0302-9743 ; ; 5770
Altri autori (Persone)	JohnsonRalph NobleJames <1967->
Disciplina	005.1
Soggetti	Computer software - Development Software patterns
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	A Pattern Language for Extensible Program Representation -- Batching: A Design Pattern for Efficient and Flexible Client/Server Interaction -- Design Patterns for Graceful Degradation -- Meeting Real-Time Constraints Using “Sandwich Delays” -- Synchronization Patterns for Process-Driven and Service-Oriented Architectures -- A Pattern Language for Process Execution and Integration Design in Service-Oriented Architectures -- A Pattern Story for Combining Crosscutting Concern State Machines -- An Example of the Retrospective Patterns-Based Documentation of a Software System.
Sommario/riassunto	The Transactions on Pattern Languages of Programming subline aims to publish papers on patterns and pattern languages as applied to software design, development, and use, throughout all phases of the software life cycle, from requirements and design to implementation, maintenance and evolution. The primary focus of this LNCS Transactions subline is on patterns, pattern collections, and pattern languages themselves. The journal also includes reviews, survey articles, criticisms of patterns and pattern languages, as well as other research on patterns and pattern languages. This book, the first volume in the Transactions on Pattern Languages of Programming series,

presents eight papers that have been through a careful peer review process involving both pattern experts and domain experts, by researchers and practitioners. The papers cover a wide range of topics, from the architectural design of large-scale systems down to very detailed design for microcontroller-based embedded systems. The first paper presents a substantial pattern language for constructing an important part of an integrated development environment. The following papers present patterns for batching requests in client-server systems; graceful degradation to handle errors and exceptions; and accurate timing delays. Two papers present related patterns that address aspects of service-oriented architectures, considering synchronization and workflow integration. Finally, the last two papers show how patterns can be combined into systems and then used to document those systems' designs.