

1. Record Nr.	UNISA996465380703316
Titolo	Software Composition [[electronic resource]] : 4th International Workshop, SC 2005, Edinburgh, UK, April 9, 2005, Revised Selected Papers // edited by Thomas Gschwind, Uwe Assmann, Oscar Nierstrasz
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2005
ISBN	3-540-28749-3
Edizione	[1st ed. 2005.]
Descrizione fisica	1 online resource (X, 202 p.)
Collana	Programming and Software Engineering ; ; 3628
Classificazione	54.52
Disciplina	005.1
Soggetti	Software engineering Computer programming Programming languages (Electronic computers) Computer logic Computer communication systems Software Engineering/Programming and Operating Systems Software Engineering Programming Techniques Programming Languages, Compilers, Interpreters Logics and Meanings of Programs Computer Communication Networks
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	Dynamic Languages -- On the Revival of Dynamic Languages -- Component Composition -- Composition-Oriented Service Discovery -- Ad Hoc Composition of User Tasks in Pervasive Computing Environments -- Improving Composition Support with Lightweight Metadata-Based Extensions of Component Models -- Directory Support for Large-Scale, Automated Service Composition -- Component Controls and Protocols -- Analysis of Compositional Conflicts in Component-Based Systems -- A Lambda Calculus with Forms -- A Model of Components with Non-regular Protocols -- A Java Implementation of a Component Model with Explicit Symbolic Protocols -- Towards Distributed Contract Negotiation in Component-Based

Systems -- Component Adaptation and Configuration -- On Typesafe Aspect Implementations in C++ -- Flexible Binding for Reusable Composition of Web Services -- Stateful Aspects in JAsCo -- Invasive Configuration of Generic Components.

Sommario/riassunto

Component-based software development is the next step after object-oriented programming that promises to reduce complexity and improve reusability. These advantages have also been identified by the industry, and consequently, over the past years, a large number of component-based techniques and processes have been adopted in many of these organizations. A visible result of this is the number of component models that have been developed and standardized. These models define how individual software components interact with each other and simplify the design process of software systems by allowing developers to choose from previously existing components. The development of component models is a first step in the right direction, but there are many challenges that cannot be solved by the development of a new component model alone. Such challenges are the adaptation of components, and their development and verification. Software Composition is the premiere workshop to advance the research in component-based software engineering and its related fields. SC 2005 was the fourth workshop in this series. As in previous years, SC 2005 was organized as an event co-located with the ETAPS conference. This year's program consisted of a keynote on the revival of dynamic languages given by Prof. Oscar Nierstrasz and 13 technical paper presentations (9 full and 4 short papers). The technical papers were carefully selected from a total of 41 submitted papers. Each paper was thoroughly peer reviewed by at least three members of the program committee and consensus on acceptance was achieved by means of an electronic PC discussion. This LNCS volume contains the revised versions of the papers presented at SC 2005.
