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Disciplina	005.1
Soggetti	Software engineering Computer programming Programming languages (Electronic computers) Computer logic Software Engineering/Programming and Operating Systems Software Engineering Programming Techniques Programming Languages, Compilers, Interpreters Logics and Meanings of Programs
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 at the end of each chapters and index.
Nota di contenuto	Invited Paper -- A Survey and a Categorization Scheme of Automatic Programming Systems -- Aspects -- Using Reflective Logic Programming to Describe Domain Knowledge as an Aspect -- Aspect Weaving with Graph Rewriting -- Aspects in Distributed Environments -- Generative Approaches -- Lightweight and Generative Components I: Source-Level Components -- Scoping Constructs for Software Generators -- Efficient Object-Oriented Software with Design Patterns -- Language Composition -- Vanilla: an open language framework -- From Macros to Reusable Generative Programming -- Aspect-Oriented Compilers -- Component-Oriented Language Idioms -- Dynamic Component Gluing -- Recursive Types and Pattern-Matching in Java --

C++ Function Object Binders Made Easy -- Domain Analysis and Component-Based Development -- Customizable Domain Analysis -- A Grey-Box Approach to Component Composition -- An XML Based Component Model for Generating Scientific Applications and Performing Large Scale Simulations in a Meta-computing Environment.

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Sommario/riassunto

In the past two years, the Smalltalk and Java in Industry and Education Conference (STJA) featured a special track on generative programming, which was organized by the working group "Generative and Component-Based Software Engineering" of the "Gesellschaft für Informatik" FG 2.1.9 "Object-Oriented Software Engineering." This track covered a wide range of related topics from domain analysis, software system family engineering, and software product families, to extendible compilers and active libraries. The talks and keynotes directed towards this new software engineering paradigm received much attention and interest from the STJA audience. Hence the STJA organizers suggested enlarging this track, making it more visible and open to wider, international participation. This is how the GCSE symposium was born. The first GCSE symposium attracted 39 submissions from all over the world. This impressive number demonstrates the international interest in generative programming and related fields. After a careful review by the program committee, fifteen papers were selected for presentation. We are very grateful to the members of the program committee, all of them renowned experts, for their dedication in preparing thorough reviews of the submissions. Special thanks go to Elke Pulvermüller and Andreas Speck, who proposed and organized a special conference event, the Young Researchers Workshop (YRW). This workshop provided a unique opportunity for young scientists and Ph.D.

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