Butler / Jarzabek

Generative and Component-Based Software Engineering

Second International Symposium, GCSE 2000, Erfurt, Germany, October 9-12, 2000. Revised Papers

These are the proceedings of the second symposium on Generative and C- ponent-Based Software Engineering that was held in Erfurt, Germany, on - tober 9–12, 2000, as part of the Net. Object Days conference. The GCSE s- posium was born in 1999 at the Smalltalk and Java in Industry and Edu- tion Conference (STJA), the precursor to the Net. Object Days conference. The GCSE symposium grew out of a special track on generative programming that was organized by the working group “Generative and Component-Based So- ware Engineering” of the “Gesellschaft fur ¨ Informatik” FG 2. 1. 9 at STJA in the two years 1997 and 1998. The GCSE symposium covers a wide range of related topics from domain analysis, software system family engineering, and software product lines, to extendible compilers and active libraries. The second GCSE symposium attracted 29 submissions from all over the world. This impressive number demonstrates the international interest in g- erative programming and related ?elds. After a careful review by the program committee, 12 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 Pulvermuller ¨, Andreas Speck, Kai B¨ ollert, Detlef Streitferdt, and Dirk Heuzeroth, who continued the tradition from GCSE’99 and organized a special conference event, the Young Researchers Workshop (YRW). This workshop provided a unique opportunity for young scientists and Ph. D.

Invited Papers.- The Theory and Practice of Adaptive Components.- Designing for Change, a Dynamic Perspective.- Aspects and Patterns.- On to Aspect Persistence.- Symmetry Breaking in Software Patterns.- Aspect Composition Applying the Design by Contract Principle.- Models and Paradigms.- Towards a Foundation of Component-Oriented Software Reference Models.- Grammars as Contracts.- Generic Components: A Symbiosis of Paradigms.- Components and Architectures.- Design and Implementation Constructs for the Development of Flexible, Component-Oriented Software Architectures.- Scenario-Based Analysis of Component Compositions.- Product Instantiation in Software Product Lines: A Case Study.- Mixin-Based Composition and Metaprogramming.- Mixin-Based Programming in C++.- Metaprogramming in the Large.- Just When You Thought Your Little Language Was Safe: "Expression Templates" in Java.



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