

# Table of Contents

## Invited Paper

A Characterization of Generator and Component Reuse Technologies . . . . .	1
<i>Ted J. Biggerstaff</i>	

## Software Product Lines

A Standard Problem for Evaluating Product-Line Methodologies . . . . .	10
<i>Roberto E. Lopez-Herrejon, Don Batory</i>	
Components, Interfaces and Information Models within a Platform Architecture . . . . .	25
<i>Jan Gerben Wijnstra</i>	
XVCL Approach to Separating Concerns in Product Family Assets . . . . .	36
<i>Hongyu Zhang, Stan Jarzabek, Soe Myat Swe</i>	

## Aspects

AspectJ Paradigm Model: A Basis for Multi-paradigm Design for AspectJ . . . . .	48
<i>Valentino Vranić</i>	
Aspect-Oriented Configuration and Adaptation of Component Communication . . . . .	58
<i>Dirk Heuzeroth, Welf Löwe, Andreas Ludwig, Uwe Aßmann</i>	
A Version Model for Aspect Dependency Management . . . . .	70
<i>Elke Pulvermüller, Andreas Speck, James O. Coplien</i>	
An Object Model for General-Purpose Aspect-Languages . . . . .	80
<i>Stefan Hanenberg, Boris Bachmendo, Rainer Unland</i>	

## Generic and Generative Approaches

Generic Visitor Framework Computing Statistical Estimators . . . . .	92
<i>Jean-Daniel Nicolet</i>	
Base Class Injection . . . . .	106
<i>Douglas Gregor, Sibylle Schupp, David Musser</i>	
Reflection Support by Means of Template Metaprogramming . . . . .	118
<i>Giuseppe Attardi, Antonio Cisternino</i>	

**Components and Architecture**

Scenario-Based Generation and Evaluation of Software Architectures . . . . . 128  
*Hans de Bruin, Hans van Vliet*

The Role of Design Components in Test Plan Generation . . . . . 140  
*Jaehyoun Kim, C. Robert Carlson*

Retrieving Software Components Using Directed Replaceability Distance . . 153  
*Hironori Washizaki, Yoshiaki Fukazawa*

Generating Application Development Environments for Java Frameworks . 163  
*Markku Hakala, Juha Hautamäki, Kai Koskimies, Jukka Paakki, Antti  
Viljamaa, Jukka Viljamaa*

**Author Index . . . . . 177**

Generative and Component-Based Software  
Engineering

Third International Conference, GCSE 2001, Erfurt,  
Germany, September 9-13, 2001, Proceedings  
Bosch, J. (Ed.)

2001, VIII, 184 p., Softcover

ISBN: 978-3-540-42546-5