

# Table of Contents

On the Influence of Variabilities on the Application-Engineering Process of a Product Family . . . . .	1
<i>Lars Geyer, Martin Becker</i>	
Representing Variability in Software Product Lines: A Case Study . . . . .	15
<i>Michel Jaring, Jan Bosch</i>	
Variation Management for Software Production Lines . . . . .	37
<i>Charles W. Krueger</i>	
Adopting and Institutionalizing a Product Line Culture . . . . .	49
<i>Günter Böckle, Jesús Bermejo Muñoz, Peter Knauber, Charles W. Krueger, Julio Cesar Sampaio do Prado Leite, Frank van der Linden, Linda Northrop, Michael Stark, David M. Weiss</i>	
Establishing a Software Product Line in an Immature Domain . . . . .	60
<i>Stefan Voget, Martin Becker</i>	
Critical Factors for a Successful Platform-Based Product Family Approach	68
<i>Jan Gerben Wijnstra</i>	
Product Line Architecture and the Separation of Concerns . . . . .	90
<i>Jay van Zyl</i>	
Model-Driven Product Line Architectures . . . . .	110
<i>Dirk Muthig, Colin Atkinson</i>	
Systematic Integration of Variability into Product Line Architecture Design . . . . .	130
<i>Steffen Thiel, Andreas Hein</i>	
Adaptable Components for Software Product Line Engineering . . . . .	154
<i>T. John Brown, Ivor Spence, Peter Kilpatrick, Danny Crookes</i>	
Using First-Order Logic for Product Line Model Validation . . . . .	176
<i>Mike Mannion</i>	
Product Line Annotations with UML-F . . . . .	188
<i>Wolfgang Pree, Marcus Fontoura, Bernhard Rumpe</i>	
Feature Modeling: A Meta-model to Enhance Usability and Usefulness . . . .	198
<i>Dániel Fey, Róbert Fajta, András Boros</i>	

Feature-Based Product Line Instantiation Using Source-Level Packages ... 217  
*Arie van Deursen, Merijn de Jonge, Tobias Kuipers*

Feature Interaction and Dependencies: Modeling Features  
for Reengineering a Legacy Product Line ..... 235  
*Stefan Ferber, Jürgen Haag, Juha Savolainen*

Maturity and Evolution in Software Product Lines:  
Approaches, Artefacts and Organization ..... 257  
*Jan Bosch*

Evolutionary Introduction of Software Product Lines ..... 272  
*Daniel Simon, Thomas Eisenbarth*

Governance Polarities of Internal Product Lines ..... 284  
*Truman M. Jolley, David J. Kasik, Conrad E. Kimball*

Performance Analysis of Component-Based Applications ..... 299  
*Sherif Yacoub*

Using the Options Analysis for Reengineering (OAR) Method  
for Mining Components for a Product Line ..... 316  
*Dennis Smith, Liam O’ Brien, John Bergey*

Widening the Scope of Software Product Lines –  
From Variation to Composition ..... 328  
*Rob van Ommering, Jan Bosch*

A Method for Product Line Scoping  
Based on a Decision-Making Framework ..... 348  
*Tomoji Kishi, Natsuko Noda, Takuya Katayama*

Using a Marketing and Product Plan  
as a Key Driver for Product Line Asset Development ..... 366  
*Kyo C. Kang, Patrick Donohoe, Eunman Koh, Jaejoon Lee,  
Kwanwoo Lee*

Engineering Software Architectures, Processes and Platforms  
for System Families – ESAPS Overview ..... 383  
*Frank van der Linden*

**Author Index ..... 399**