

2012 3rd International Workshop on Product Line Approaches in Software Engineering

(PLEASE 2012)

**Zurich, Switzerland
4 June 2012**



**IEEE Catalog Number: CFP1283S-PRT
ISBN: 978-1-4673-1750-4**

TABLE OF CONTENTS

Towards Efficient Functional Safety Certification of Construction Machinery Using a Component-Based Approach	1
<i>S. Baumgart, J. Froberg, S. Punnakkat</i>	
Leveraging Variability Modeling for Multi-dimensional Model-Driven Software Product Lines	5
<i>J. Filho, O. Barais, B. Baudry, J. Noir</i>	
Managing and Assessing the Risk of Component Upgrades	9
<i>M. Annosi, M. Penta, G. Tortora</i>	
Enhance Value by Building Trustworthy Software-Reliant System of Systems from Software Product Lines	13
<i>D. Li, Y. Yang</i>	
Using Feature Modelling and Automations to Select among Cloud Solutions	17
<i>C. Quinton, L. Duchien, P. Heymans, S. Mouton, E. Charlier</i>	
Adapting Software Product Lines for Complex Certifiable Avionics Software	21
<i>N. Sozen, E. Merlo</i>	
Languages and Tools for Managing Feature Models	25
<i>M. Acher, R. Michel, P. Heymans, P. Collet, P. Lahire</i>	
Towards More Reliable Configurators: A Re-engineering Perspective	29
<i>Q. Boucher, E. Abbasi, A. Hubaux, P. Heymans, G. Perrouin, M. Acher</i>	
Driving Flexibility and Consistency of Business Processes by Means of Product-Line Engineering and Decision Tables	33
<i>N. Boffoli, D. Caivano, D. Castelluccia, G. Visaggio</i>	
Recovering Variability Information from the Source Code of Similar Software Products	37
<i>S. Duszynski, M. Becker</i>	
Software Product Line Engineering of Space Flight Software	41
<i>J. Fant, H. Gomaa, R. Pettit IV</i>	
Value-Based Portfolio Scoping: An Industrial Case Study	45
<i>J. Hu, Y. Yang, Q. Wang, G. Ruhe, H. Wang</i>	
Optimizing Problem Space Representations through Domain Multi-modeling	49
<i>A. Leitner, R. Weiß, C. Kreiner</i>	
Delta-Oriented Model-Based SPL Regression Testing	53
<i>S. Lity, M. Lochau, I. Schaefer, U. Goltz</i>	
Product Line Tool-Chain: Variability in Critical Systems	57
<i>C. Saratzaga, C. Alonso-Montes, O. Haugen, C. Ekelin, A. Mitschke</i>	
Feature-Analysis-Based Selection Method for System Configuration for System Testing	61
<i>D. Shimbara, M. Kawakami, H. Watanabe, H. Ogawa, S. Kakushi</i>	
Author Index	