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Deriving Configuration Interfaces from Feature Models : A Vision Paper

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ABSTRACT

In solvest promise, teather incomes and the action in products. Yet, configuration relying on feature models faces two issues: I) it assumes knowledge of the underlying formalism, which may not be true for end users and controls, leading to usability and integration problems with other parts of the user interface. To address these issues, our research focuses on the generation of configuration interfaces based on variability models, both from the visual and ating abstract user-interfaces from feature models. Regarding configuration behavior, in particular the configuration sequence, we plan to use feature configuration workflows or of task, were fucesures and business models found in the in the human-computer interaction community. This pare discusses the main challenges and possible solutions to

Keywords

Software Product Lines, Feature Configuration Workflows, Configuration Interfaces

1. INTRODUCTION

Along with the development of e-commerce, mass customization [23] which was formerly performed by software contribution of the property of the contribution of the adequate configuration interface. These configuration applications have permeated a number of markets such as car manufacturers, clothing or computer hardware. Software products are also configurable, service-based applications products are also configurable, service-based applications products are also configurable, service-based applications of the configuration of the contribution of the configuration of the product line (SPL) community has addressed the design of such configurations [7] by relying on feature models (PMs).

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ndeed, selecting options of a particular product within a given configurator amounts to perform interactive configuation of a feature model where features correspond to opions and decisions propagated throughout the configuration nterface enabling or disabling specific options according to

constraints.

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The paper is organized as follows. Section 2 sketches our model-based vision for configuration interfaces generation, illustrated through examples. Research challenges to be solved to realize this vision are discussed in Section 3 Related work is surveyed in Section 4. Finally, Section is wraps up the paper and presents some on-going and future

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European Conference on Information Systems. Software Product Lines (SPL) based on reuse, claim to improve evolution, time to RA and PLA: a subtle but critical difference, ECSA, LNCS, pp. for Dynamic Reconfiguring Software Product Line Products, Conference Paper an Ontology-Based Approach for Deriving Product Architectures, 15th Intern. 4th International Conference on Civil Engineering Education - EUCEET September, Munich, Germany Second International Workshop on Software Solutions for Integrated Computational. 29 August - 2 September, Barcelona, Spain 15th International Workshop on Dynamics and Control.

[PDF] Eleventh Annual International Phoenix Conference On Computers And Communications, April 1-3, 1992, S

[PDF] McCalls Comprehensive Cookbook

[PDF] Think Of A Number: A Novel

[PDF] Creature Comforts: People And Their Security Objects

[PDF] Giovannis Gift

[PDF] Red Cat, White Cat: China And The Contradictions Of market Socialism

[PDF] Orchids: From The Archives Of The Royal Horticultural Society