

Software Product Line Engineering

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Software Product Line Engineering

Software product lines (SPLs), or software product line development, refers to software engineering methods, tools and techniques for creating a collection of similar software systems from a shared set of software assets using a common means of production.. The Carnegie Mellon Software Engineering Institute defines a software product line as "a set of software-intensive systems that share a ...

Software product line - Wikipedia

What is Product Line Engineering? Systems and Software Product Line Engineering, abbreviated as Product Line Engineering (or PLE for short), is defined as the engineering of a portfolio of related products using a shared set of engineering assets and an efficient means of production.

Product Line Engineering Overview

software architecture and its constituent (software) components. This article describes how this is done in practice, using the example of a Product Line of meteorological data systems. Using this example we will show how a Product Line is designed, and how product variants can be derived automatically. Software Product Lines

Software Product Line Engineering with Feature Models

Software Product Line (SPL) engineering refers to the engineering and management techniques to create, evolve, and sustain a software product line. Over the last few years, these trends have crystallized into an approach known as Product Line Engineering (PLE) for Systems and Software.

Software Product Lines

Product Line Engineering for Systems and Software is a way to engineer a portfolio of related products in an efficient manner, taking full advantage of the products' similarities while respecting and managing their differences.

Product Line Engineering for Systems and Software

I. Software Product Line Engineering Are you interested in producing software products or software-intensive systems at lower costs, in shorter time, and with higher quality? If so, you are holding the right book in your hands. Software product line engineering has proven to be the methodology for

Software Product Line Engineering - Foundations ...

Software Product Lines - eLearning ONLINE A software product line is a set of software-reliant systems that share a common, managed set of features satisfying a particular market or mission area, and are built from a common set of core assets in a prescribed way.

Software Product Lines - Software Engineering Institute

Software Product Lines - eLearning. A software product line is a set of software-reliant systems that share a common, managed set of features satisfying a particular market or mission area, and are built from a common set of core assets in a prescribed way.

Software Product Lines - eLearning

Product Line Engineering for Systems and Software is an innovative engineering approach that's changing the fundamentals of how companies build, maintain, evolve, and compete with their product lines.

Product Line Engineering Introduction

Product-family engineering (PFE), also known as product-line engineering, is a synonym for "domain engineering" created by the Software Engineering Institute, a term coined by James Neighbors in his 1980 dissertation at University of California, Irvine. Software product lines are quite common in our daily lives, but before a product family can be successfully established, an extensive process ...

Product-family engineering - Wikipedia

Software Area Editor David Weiss discusses the benefits of using software product line engineering to produce software families. From Computer's October 2012...

Software Product Line Engineering

Software product line engineering has proven to be the methodology for Higher quality, lower developing a diversity of software products and software-intensive systems cost, and shorter at lower costs, in shorter time, and with higher quality. Numerous reports development times document the significant achievements and experience gained by ...

Software Product Line Engineering | SpringerLink

Software product line "A software product line (SPL) is a set of software-intensive systems that share a common, managed set of features satisfying the specific needs of a particular market segment or mission and that are developed from a common set of core assets in a prescribed way." Carnegie Mellon Software Engineering Institute - http ...

Software Product Line Engineering - Page d'accueil / Lirmm ...

Software Product Lines in Action: The Best Industrial Practice in Product Line Engineering [Frank J. van der Linden, Klaus Schmid, Eelco Rommes] on Amazon.com. *FREE* shipping on qualifying offers. Software product lines represent perhaps the most exciting paradigm shift in software development since the advent of high-level programming languages.

Software Product Lines in Action: The Best Industrial ...

A product line is a set of products that together address a particular market segment or fulfill a particular mission. Product flexibility is the anthem of the software marketplace, and product lines fulfill the promise of tailor-made systems built specifically for the needs of particular customers or customer groups.

A Framework for Software Product Line Practice, Version 5.0

The result has been a software production process based on family-oriented abstraction, specification, and translation, known as FAST. Chi Tau Robert Lai is founder of the International Software Process Constellation, Inc., which is an industry leader in process engineering and software automation.

Weiss & Lai, Software Product-Line Engineering: A Family ...

The methods and tools of systems and software engineering have predominantly promoted a traditional product-centric perspective. The result is a bevy of adhoc tools and processes that are being applied to the development lifecycle of an individual product – from early inception through design, implementation, testing, deployment, and maintenance.

The Product Line Engineering Epiphany | BigLever Software ...

I. Software Product Line Engineering Are you interested in producing software products or software-intensive systems at lower costs, in shorter time, and with higher quality? If so, you are holding the right book in your hands.

Software Product Line Engineering: Foundations, Principles ...

Although the term "Software Product Line Engineering" is becoming more widely known, there is still uncertainty among developers about how it would apply in their own development context. In this article we tackle this problem by describing the design and automated derivation of the product variants of ...

Software Product Line Engineering with Feature Models

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