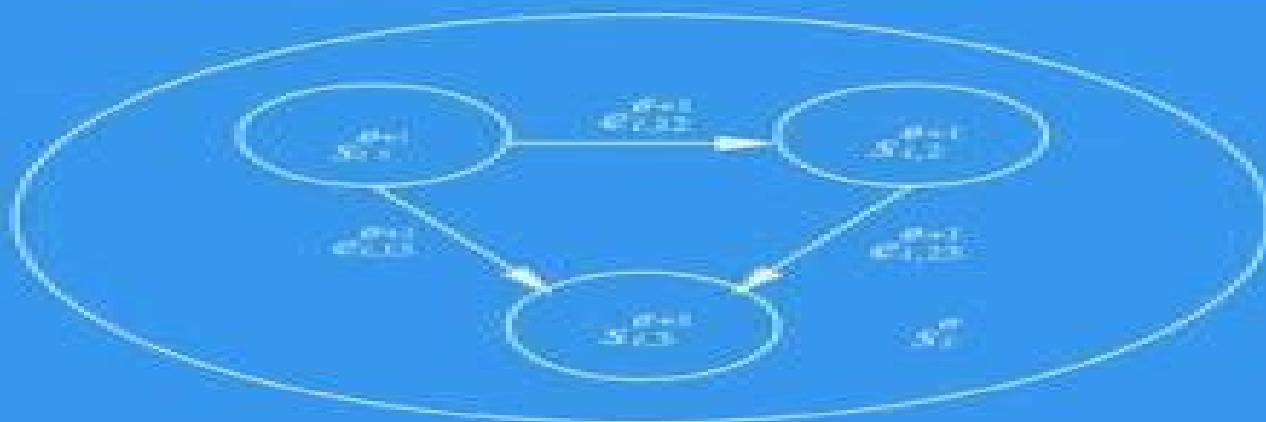


Martin Wirsing
Alexander Knapp
Simonetta Balsamo (Eds.)

Radical Innovations of Software and Systems Engineering in the Future

9th International Workshop, RISSEF 2002
Venice, Italy, October 2002
Revised Papers



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Radical Innovations Of Software And Systems Engineering In The Future

Martin Wirsing, RISSEF.



Radical Innovations Of Software And Systems Engineering In The Future:

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Innovative Methods,

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Large-Scale Complex IT Systems. Development, Operation and Management Radu Calinescu, David Garlan, 2012-10-12 This book presents the thoroughly refereed and revised post-workshop proceedings of the 17th Monterey Workshop held in Oxford, UK, in March 2012. The workshop explored the challenges associated with the Development, Operation, and Management of Large-Scale complex IT Systems. The 21 revised full papers presented were significantly extended and improved by the insights gained from the productive and lively discussions at the workshop and the feedback from the post-workshop peer reviews.

Formal Methods for Embedded Distributed Systems Fabrice Kordon, Michel Lemoine, 2007-05-08 The development of any Software-Intensive System, e.g., critical embedded software, requires both different notations and a strong development process. Different notations are mandatory because different aspects of the Software System have to be tackled. A strong development process is mandatory as well because without a strong organization we cannot warrant the system will meet its requirements. Unfortunately, much more is needed. The different notations that can be used must all possess at least one property: formality. The development process must also have important properties: exhaustive coverage of the development phases and a set of well-integrated support tools. In Computer Science, it is now widely accepted that only formal notations can guarantee a perfect defined meaning. This becomes a more and more important issue since software systems tend to be distributed in large systems (for instance, in safe public transportation systems) and in small ones (for instance, numerous processors in luxury cars). Distribution increases the

complexity of embedded software while safety criteria get harder to be met On the other hand during the past decade Software Engineering techniques have been improved a lot and are now currently used to conduct systematic and rigorous development of large software systems UML has become the de facto standard notation for documenting Software Engineering projects UML is supported by many CASE tools that offer graphical means for the UML notation

Accelerating Digital Transformation Jan Bosch, Jan Carlson, Helena Holmström Olsson, Kristian Sandahl, Miroslaw Staron, 2022-10-19 This book celebrates the 10 year anniversary of Software Center a collaboration between 18 European companies and five Swedish universities by presenting some of the most impactful and relevant journal or conference papers that researchers in the center have published over the last decade The book is organized around the five themes around which research in Software Center is organized i e Continuous Delivery Continuous Architecture Metrics Customer Data and Ecosystems Driven Development and AI Engineering The focus of the Continuous Delivery theme is to help companies to continuously build high quality products with the right degree of automation The Continuous Architecture theme addresses challenges that arise when balancing the need for architectural quality and more agile ways of working with shorter development cycles The Metrics theme studies and provides insight to understand monitor and improve software processes products and organizations The fourth theme Customer Data and Ecosystem Driven Development helps companies make sense of the vast amounts of data that are continuously collected from products in the field Eventually the theme of AI Engineering addresses the challenge that many companies struggle with in terms of deploying machine and deep learning models in industrial contexts with production quality Each theme has its own part in the book and each part has an introduction chapter and then a carefully selected reprint of the most important papers from that theme This book mainly aims at researchers and advanced professionals in the areas of software engineering who would like to get an overview about the achievement made in various topics relevant for industrial large scale software development and management and to see how research benefits from a close cooperation between industry and academia Synergies Between Knowledge Engineering and Software Engineering Grzegorz J. Nalepa, Joachim Baumeister, 2017-09-15 This book compiles a number of contributions originating from the KESE Knowledge Engineering and Software Engineering workshop series from 2005 to 2015 The idea behind the series was the realignment of the knowledge engineering discipline and its strong relation to software engineering as well as to the classical aspects of artificial intelligence research The book introduces symbiotic work combining these disciplines such as aspect oriented and agile engineering using anti patterns and system refinement Furthermore it presents successful applications from different areas that were created by combining techniques from both areas

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