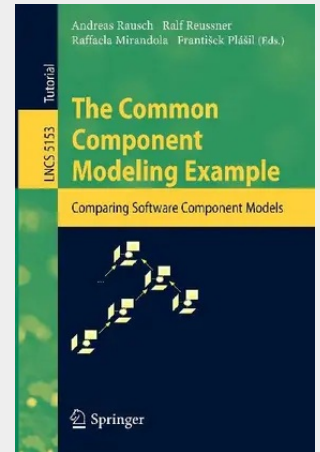


The Common Component Modeling Example

Comparing Software Component Models

Several conference and workshop series are dedicated to formal component models and their use in verification and quality prediction, such as FMCO, CBSE, FESCA, FACS and QoSA. There are a plethora of component models published, all with specific merits and benefits. However, most often these models are not used for comparison, as each research group concentrates on different aspects of formal component modelling and quality prediction. Like the famous production cell approach of the FZI, Karlsruhe, which has served since 1995 as a common example for different embedded systems safety verification, in this volume we define a common example for modelling approaches of component-based systems. This Common Component Modelling Example enables the comparability of different approaches, the validation of existing models, a better focus of research to tackle aspects less frequently dealt within the classification of existing models and approaches, an eased interchange of research ideas, as well as a simplified and increased coordination and research collaborations to join complementary models and approaches. In this volume we define the Common Component Modelling Example and present the models in current modelling and analysis approaches. The book concludes with comments on each modelling approach by an international jury. August 2007 Andreas Rausch Ralf Reussner Raffaela Miranda František Plášil (Eds.) LNCS vol. 891. Organization The Dagstuhl research seminar for CoCoME (Common Component Modelling Example) modelling contest is part of a series of seminars organized with support by the German Computer Science Society (Gesellschaft für Informatik, GI). It was held during August 1–3, 2007 at Schloss Dagstuhl, Germany, as event number 07312.

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53,49 €

49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783540852889

Medium: Buch

ISBN: 978-3-540-85288-9

Verlag: Springer

Erscheinungstermin: 26.08.2008

Sprache(n): Englisch

Auflage: 2008

Serie: Programming and Software Engineering

Produktform: Kartoniert

Gewicht: 709 g

Seiten: 460

Format (B x H): 155 x 235 mm

