Model-Based Engineering of Embedded Real-Time Systems

By Holger Giese

Springer-Verlag Gmbh Sep 2010, 2010. Taschenbuch. Book Condition: Neu. 242x159x25 mm. - This volume describes novel and state-of-the-art approaches to solving problems arising in the domain of embedded real-time systems. It is based on the GI-Dagstuhl research seminar MBEERTS (Modelling-Based Engineering of Embedded Real-Time Systems), which took place from November 4th to 9th in 2007, at Schloss Dagstuhl, Germany. Using models throughout the development bears several advantages. Not only can they be used as a tool for abstraction but also for verification, implementation, testing and maintenance. Due to the specific domain of real-time systems several constraints like real-time requirements, resource limitations or hardware-specific dependencies arise and impede the acceptance of high-level models for the aforementioned purposes. The approaches presented in this volume tackle those problems and lead the way to a greater acceptance and applicability of high-level models for embedded real-time systems. Therefore this volume contains 10 longer chapters covering broad areas and 11 short chapters discussing several specific state-of-the-art tools used for model-based engineering of embedded real time systems. The topic of 'Model-based Engineering of Real-time Embedded Systems' brings together a challenging problem domain (real-time embedded systems) and a solution domain (model-based engineering). Today, real-time embedded software plays a...

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