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Advanced Model-Based Engineering of Embedded Systems

The markets for embedded systems are characterized by high innovation pressure, steadily decreasing times to market, and the omnipresent need to reduce development costs. This trend is accompanied by the necessity of developing innovative products with greater functionality and more features that can be sold to customers. In the joint research project "Software Platform Embedded Systems XT" (SPES XT), a group of 21 partners from industry and academia came together to improve the engineering processes for embedded systems in the automation, automotive and avionic industry. In this chapter we give an introduction to the SPES XT modeling framework supporting the seamless model-based engineering of embedded systems and addressing core challenges in today's embedded systems engineering.



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