

MDA - Patterns, Technologies and Challenges

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Abstract

This short course makes a critical analysis of MDA (Model-Driven Architecture) and aims to clearly evidence what can be adopted in current software development practices and which are the promises and visions for the future. Initially, this short course approaches basic MDA concepts, such as models, metamodels, model transformations, PIM, PSM and CIM, pointing out the importance of these for developing software based on models. Next, this short course discusses the main technologies currently available, including MOF, UML, XMI, CWM, SPEM and QVT, enumerating available tools, when it is possible. At last, this short course identifies problems and challenges, suggesting evolution and research tendencies in this field.