

Benoit Baudry, - *INRIA, Rennes, France*

Analyzing the craft of metamodeling

Abstract: The construction of a precise metamodel is a central activity in model-driven development, since the metamodel drives the definition of models semantics, the construction of editors, etc. Despite the central role of metamodels, metamodeling is still a craft and there exist very little support for metamodelers to learn from previous experiences or to assist the analysis of metamodels. In this talk I will go through recent works developed in the Triskell team, which aim at better understanding metamodeling activities. We learned about existing metamodels through the first empirical investigation on existing metamodels coming from industry, academia and from a standardization organization. We also developed several algorithms and tools to extract meaningful slices from a metamodel, in order to assist visualization and analysis of metamodels.

Biosketch: Benoit Baudry received a PhD degree in Computer Science from the University of Rennes, France, in 2003. Since 2004 he is a full time researcher at INRIA. His research interests include software testing and verification, model-driven engineering, aspect-oriented software development, security and requirements analysis. He leads the INRIA Triskell research group. He is chair of the steering committee for the IEEE International Conference on Software Testing, Verification and Validation.



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Information : Pierre L'Ecuyer, <http://www.iro.umontreal.ca/~lecuyer/>