



Generic Model Management

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Generic model management (gMMt) is a novel view on classical and modern metadata management problems. The present article surveys the goals, components, pros and cons of gMMt, and major problems cited in the literature. It argues that some methodology developed in abstract mathematics can be extremely helpful for the field and is capable of providing it with a convenient notation, semantic foundations and truly generic specification patterns. The two other articles, titled *Mathematics of Generic Specifications for Model Management, I* (further referred to as Math-I, see p. 351), and *Mathematics of Generic Specifications for Model Management, II* (further referred to as Math-II, see p. 359), give some evidence to these claims by demonstrating how the machinery works in a series of examples.

WHY: FROM ELEMENT-AT-A-TIME TO MODEL-AT-A-TIME PROGRAMMING

Many data management routines include *metadata* applications that manipulate descriptions of data, usually called *schemas*, rather than the data itself. Typical examples are database design, schema integration and evolution, reverse engineering, data integration and translation, or data warehousing. Lately, the Web's dramatically rapid invasion into the field has added to this list several new tasks: ontology engineering and integration, Web site design, and XML wrappers generation. It has also multiplied the importance and diversity of versions of classical tasks by a big coefficient of e-commerce applications. In the OO jargon, data schemas (more generally, metadata artifacts) are often called *models*, so applications listed above can be classified as *model management* (MMt).

Along with models, MMt includes specifying and operating relations between models, which are usually called *model mappings* in the literature. Some examples are mappings between ER- or UML-diagrams on consecutive stages of design or between different releases of a database schema; mappings and their inverses between

ER-diagrams and SQL schemas implementing them; mappings between XML schemas to manage message translation; and various sorts of mappings between various UML diagrams either of one sort (*homogeneous*) or between different sorts (*heterogeneous* model transformation). The construct of view, well known in the relational data model, also presents nothing but a special syntax for specifying a mapping between relational schemas. In a sense, MMt is all about mappings.

A commonly accepted standard approach to implementing MMt tasks is to present models and mappings as collections of objects and to program manipulations with them via programming manipulations with objects they consist of. Bernstein (2003) calls this *object-at-a-time* programming. A better term might be *element-at-a-time* programming, to emphasize working on the level of elements from which models and mappings are built. Though it does the job, element-wise programming is very laborious and error-prone. In a sense, it is similar to record-at-a-time programming in data processing. As is well known, eliminating the latter in modern DBMSs raised data processing technology on a qualitatively new level in programmers' productivity and semantic transparency.

Similarly, we can expect that a *model/mapping-at-a-time* programming environment, where the application programmer can think of MMt routines in terms of operations over models and mappings as integral entities, could essentially facilitate development and maintenance of metadata applications. To be really useful, such an environment should be *generic*, that is, be applicable to a wide range of MMt tasks involving a wide range of models of different types, i.e., of different *metamodels*. In this way we come to the idea of *generic MMt* (gMMt) environment manifested by Bernstein, Halevy, and Pottinger (2000).

WHAT: ABSTRACT, CONCRETE AND HEURISTIC PARTS OF GENERIC MMt

To achieve its goals, gMMt must resolve the following three major groups of problems, which are schematically presented in Figure 1.

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Huangqi Zhang



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