Implicature of Attributes in the FRBR Model

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Functional Requirements for

Bibliographic Records outlines

"a framework that identifies and clearly defines the entities of interest to users of bibliographic records, the attributes of each entity, and the types of relationships that operate between entities." Of particular interest is what at first appears to be a hierarchy bibliographic entities defined as "group 1": work, expression, manifestation, and item. The report aims to rethink library catalogs in a way that will better serve the needs of users, and it gives a clear disclaimer that the conceptual model "does not carry the analysis to the level that would be required for a fully developed data model" [IFLA 1998: 3].

Nevertheless, it is clear

that the conceptual model will lay the groundwork for an ontology of the bibliographic universe that could be used by software agents, such as those in Semantic Web applications. Indeed, work is underway to reconcile the FRBR model with the CIDOC Conceptual Reference Model (CRM) [ICOM/CIDOC 2007], an ontology developed by the museum community. The result is a harmonized model called FRBROO [International 2008], one more promising as a true ontology than the original FRBR model. It refines the FRBR model's entities, attributes, and relationships to give an "object-oriented definition of FRBR" [International 2008: 7]. This includes the introduction of temporal entities, events, and time processes and an analysis of the creation and production processes [International 2008: 11–15].

However, neither the FRBR

model nor FRBROO specifies how an attribute comes to be assigned to its entity. For example, how does a work, expression, or manifestation acquire its title? Can any of these titles change? How are access restrictions on an item related to access restrictions on a manifestation? Using for simplicity the original FRBR model rather than FRBROO, this paper proposes a revised FRBR model in which certain attributes of entities in group 1 are inherited by default, first up and then back down the "hierarchy" of group-1 entities. Such an approach yields many inferred attributes missing from the original FRBR model.

This system of implicature

could prove useful for machine learning about bibliographic entities, whereby software agents would be able to infer attributes of a group-1 entity based on its relationships to other entities. Furthermore, considering such implicature helps clarify our assumptions about textual versions central to the study of textual heritage.

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Èìïëèêàòóðà àòðèáóòîâ â ER-ìîäåëè «Ôóíêöèîíàëüíûõ òðåáîâàíèé ê ábáéèîâðàôè÷åñêèì çàïèñÿì»

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