

# Foundations of a Model Driven Engineering Approach for Human-Computer Interface Focused on Content Personalization

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Abstract: With the diversity of technologies, the engineering of user interfaces has becoming a critical activity in the system development. The interfaces should not only be customized in terms of layout, screen resolution and other static aspects; but also, provide the pertinent information to the user considering his/her profile, the platform s-he is using, and location s-he is at the moment of using the system. In this context, different approaches have been defined to deal with the user interface personalization. This paper proposes an approach of model-driven engineering for human-computer interfaces that uses a set of models and a domain ontology to generate interfaces that considers the personalization of static elements and also the domain application content. A case study exemplifies how this approach can be applied.

*Keywords:* model driven engineering, model driven architecture, interface personalization, human-computer interface.

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