

# Code Generation by Object Observation - an Evaluation<sup>\*</sup>

Sebastian Geiger<sup>1</sup>, Sebastian Kerekes<sup>2</sup>, Michael Kraxner<sup>3</sup>, and Martin Lackner<sup>4</sup>

<sup>1</sup> Favoritenstrasse 9-11, 1040 Wien

`sbastig@gmx.net`

MatrNr.:

<sup>2</sup> Favoritenstrasse 9-11, 1040 Wien

`contact@sebastiankerekes.com`

MatrNr.:

<sup>3</sup> Favoritenstrasse 9-11, 1040 Wien

`michael.kraxner@gmail.com`

MatrNr.: 9925916

<sup>4</sup> Favoritenstrasse 9-11, 1040 Wien

`lackner.martin@gmail.com`

MatrNr.:

**Abstract.** ... This paper evaluates possibilities and limitations of code generation by object observation. ...

---

<sup>\*</sup> This work has been created in the context of the course “Advanced Model Engineering” (188952) in SS13.

## Table of Contents

1	Introduction.....	1
2	Related work .....	1
2.1	fUML.....	1
2.2	xMOF .....	1
2.3	xtend .....	1
3	Code Generation with xtend .....	2
4	Code Generation by Object Observation .....	3
5	Evaluation .....	4
	References .....	4

## **1 Introduction**

In the last decade model driven engineering has devop ...

## **2 Related work**

recent developments ... Executable UML,

### **2.1 fUML**

### **2.2 xMOF**

### **2.3 xtend**

XXX really ???

### 3 Code Generation with xtend

## 4 Code Generation by Object Observation

## 5 Evaluation

### References

1. BUSINESS INFORMATICS GROUP. <http://www.big.tuwien.ac.at>. Accessed: 2010-11-09.
2. HITZ, M., KAPPEL, G., KAPSAMMER, E., AND RETSCHITZEGGER, W. *UML @ Work, Objektorientierte Modellierung mit UML 2*, 3. ed. dpunkt.verlag, 2005 (in German).
3. HUEMER, C., LIEGL, P., SCHUSTER, R., AND ZAPLETAL, M. B2B Services: Worksheet-Driven Development of Modeling Artifacts and Code. *Computer Journal* 52, 2 (2009), 28–67.
4. LANGER, P. Konflikterkennung in der Modellversionierung. Master’s thesis, Vienna University of Technology, 2009.
5. OASIS. *Business Process Execution Language 2.0 (WS-BPEL 2.0)*, 2007.
6. SCHAUERHUBER, A., WIMMER, M., SCHWINGER, W., KAPSAMMER, E., AND RETSCHITZEGGER, W. Aspect-Oriented Modeling of Ubiquitous Web Applications: The aspectWebML Approach. In *Proceedings of the 14th Annual IEEE International Conference and Workshops on the Engineering of Computer-Based Systems (ECBS ’07), March 26-29, Tucson, Arizona, USA* (2007), IEEE CS Press, pp. 569–576.
7. SCHWINGER, W., AND KOCH, N. Modeling Web Applications. In *Web Engineering*, G. Kappel, B. Pröll, S. Reich, and W. Retschitzegger, Eds. John Wiley & Sons, Ltd, 2006, pp. 39–64.
8. WIMMER, M. *From Mining to Mapping and Roundtrip Transformations - A Systematic Approach to Model-based Tool Integration*. PhD thesis, Vienna University of Technology, 2008.