

**Leopold-Franzens University of Innsbruck**

**Institute of Computer Science**

**Research Group Quality Engineering**

July 2010

**Research Experiment**

**Understandability of Imperative and Declarative Process Models**





**Dear participant, welcome to the study!**

This study is embedded in a joint research project between the Institute of Computer Science at the University of Innsbruck, Austria, the Institute of Information Systems at the Humboldt University of Berlin, Germany, the Institute of Information Systems at the University of Technology at Eindhoven, Netherlands, and is part of an ongoing master thesis.

With your participation you help to investigate the influence of certain question types on the understandability of both imperative and declarative process models. Moreover, you support the investigation of the superiority of process modeling languages concerning end user understandability. Imperative models were modeled with BPMN (Business Process Modeling Notation) and declarative ones with DecSerFlow (Declarative Service Flow Language).

Participation in this study is purely voluntary. If you do agree to participate, you can withdraw from participation at any time during the experiment without comment or penalty. Your task will include answering a set of questions regarding the semantics of imperative and declarative process models, which will take about 60 minutes. However, there is no time limit in answering the questions.

Thank you for your support!

**CONFIDENTIALITY**

All data, comments and responses from this survey will be treated and stored strictly confidential and anonymous. The names of individual persons or organizations are not required in any of the responses. You will not be identified from any outcomes of this study. You will not be asked to disclose any confidential or sensitive information about yourself or the organization you may be affiliated with. All responses will be stored electronically without reference to names of individual persons.

There are no risks associated with your participation in this study.

**HINTS**

Please consider the following:

* Work as quickly as you can from the start of the questionnaire to the end. The result depends on the time you need to complete the experiment and your accuracy in answering the questions.
* When answering the questions, please provide responses based on your own perceptions or beliefs only.
* Please remember that your answers are anonymous and answer each question honestly.
* For every model a legend containing the used modeling elements is attached.

**INSTRUCTIONS**

**Troubleshooting**

* The software runs on Windows platforms only (Windows XP, Vista or Windows 7).
* Java 6 must be installed on your machine. The following link can be used to test whether Java is installed in the correct version: <http://www.java.com/de/download/installed.jsp>
* Internet access is required.
* The software asks for a code when starting – you can find the code at the bottom right of this document.