



PERSEUD

Persuasive computing, usability, software development, HMI/SCADA

CHALLENGE

By means of the extensive analysis of user interfaces, the goal was to use PERSEUD to provide research material for persuasive integration of usability know-how in development environments in order to research, prototypically implement and to evaluate. It thus solved a problem that is rarely even considered in the current development practice of usability. One reason is the lack of tools – persuasive tools as they are to be designed and researched in this study. The zenon Editor should therefore be enhanced so that it automatically offers good usability to the HMI/SCADA project, especially for those designers who do not have usability know-how. The research project has progressed in two big steps: firstly, a large-scale analysis of user interfaces for uncovering usability know-how gaps. Secondly, based on the usability problems, persuasive concepts for integration of usability know-how were prototypically implemented and evaluated with end-users in a study.

STARTING POINT

Starting point for the development of a persuasive test environment (HMI/SCADA prototype) for the comparative studies was a rated list of persuasion strategies. On the basis of comparative studies, the persuasion strategies were documented in the final report, which allow a demonstrable improvement of the developed user interface with the zenon Editor.

RESULT

The result of PERSEUD is the gained knowledge of knowing when which persuasive strategies need to be applied in software development to achieve a better usability of the produced user interfaces. A result example of this are the available screen templates in zenon for easier use by the engineers. The main result is an action catalog – in the form of design patterns – the knowledge gained from these studies will be summarized in a clear and practical manner. As a result the design patterns should allow the zenon Editor HMI/SCADA to gain direct implementation.

PROJECT OVERVIEW

INSTITUTION

CURE-Center for Usability Research & Engineering
Ing. Punzenberger COPA-DATA GmbH
www.copadata.com



TYPE OF PROJECT

Research project in the framework of the BRIDGE program, supported by the Austrian Research Promotion Agency (Österreichische Forschungsförderungsgesellschaft mbH)
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WANT TO KNOW MORE

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