Using the IDEAL Software Process Improvement Model for the Implementation of Automotive SPICE

Abstract:
Most suppliers in the automotive industry are facing the challenge of implementing Automotive SPICE, a domain-specific model of ISO/IEC 15504, which was first published in 2005. Original equipment manufacturers have increasingly requested SPICE certifications from their suppliers in order to effectively evaluate the development processes and identify reliable partners. To support organizations in their software process improvement effort, the Software Engineering Institute (SEI) developed the IDEAL model. This guide is, however, influenced by the SEI’s work on CMM and based on the experiences with very large organizations. The goal of this paper is to examine the suitability of the IDEAL model for the implementation of Automotive SPICE at a medium-sized R&D; department. Preliminary results from an action research study at a global systems engineering company are discussed. The data indicate that adjustments are especially needed with regard to the factors participation and communication.
Also, informal networks between companies, early decision-making and usability are shown to play an important role and might be added to the model.

**Intellectual Contribution:**
Discipline-based Research

**Kongress- / Buchtitel:**
5th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE), ICSE 2012 Workshop

**Kongress / Zusatzinformationen:**
Zürich, Switzerland

**Verlag / Institution:**
IEEE

**Jahr:**
2012

**Monat:**
Jun

**Key publication:**
Nein

**Peer reviewed:**
Ja

**International:**
Ja

**Book review:**
Nein

**commissioned:**
not commissioned

**Professional:**
Nein

**Occurences:**
- Einrichtungen > Fakultäten > Fakultät für Informatik > Lehrstühle der Informatik > Informatik 17 - Lehrstuhl für Wirtschaftsinformatik (Prof. Krcmar) > Konferenzbeiträge

**entries:**