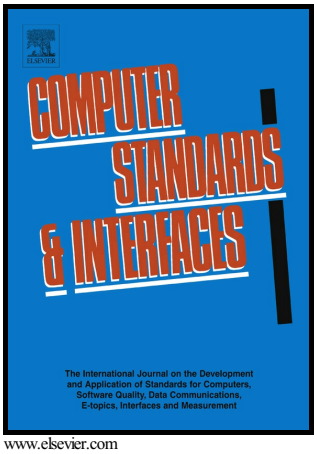
Author's Accepted Manuscript

Agile Requirements Engineering: A Systematic Literature Review

Eva-Maria Schön, Jörg Thomaschewski, María José Escalona



www.elsevier.com

PII: S0920-5489(16)30070-8
DOI: http://dx.doi.org/10.1016/j.csi.2016.08.011
Reference: CSI3132

To appear in: *Computer Standards & Interfaces*

Received date: 11 March 2016
Revised date: 25 August 2016
Accepted date: 30 August 2016

Cite this article as: Eva-Maria Schön, Jörg Thomaschewski and María Jose Escalona, Agile Requirements Engineering: A Systematic Literature Review, *Computer Standards & Interfaces,* http://dx.doi.org/10.1016/j.csi.2016.08.011

This is a PDF file of an unedited manuscript that has been accepted fo publication. As a service to our customers we are providing this early version o the manuscript. The manuscript will undergo copyediting, typesetting, an review of the resulting galley proof before it is published in its final citable form Please note that during the production process errors may be discovered whic could affect the content, and all legal disclaimers that apply to the journal pertain

ACCEPTED MANUSCRIPT

Agile Requirements Engineering: A Systematic Literature Review

Eva-Maria Schön[a], Jörg Thomaschewski[b], María José Escalona[c]
[a]University of Seville, Spain
[b]University of Applied Sciences Emden/Leer, Emden, Germany
[c]University of Seville, Spain
eva.schoen@iwt2.org
Joerg.Thomaschewski@hs-emden-leer.de
mjescalona@us.es

Abstract
Nowadays, *Agile Software Development* (ASD) is used to cope with increasing complexity in system development. Hybrid development models, with the integration of *User-Centered Design* (UCD), are applied with the aim to deliver competitive products with a suitable *User Experience* (UX). Therefore, stakeholder and user involvement during *Requirements Engineering* (RE) are essential in order to establish a collaborative environment with constant feedback loops. The aim of this study is to capture the current state of the art of the literature related to Agile RE with focus on stakeholder and user involvement. In particular, we investigate what approaches exist to involve stakeholder in the process, which methodologies are commonly used to present the user perspective and how requirements management is been carried out.
We conduct a *Systematic Literature Review* (SLR) with an extensive quality assessment of the included studies. We identified 27 relevant papers. After analyzing them in detail, we derive deep insights to the following aspects of Agile RE: stakeholder and user involvement, data gathering, user perspective, integrated methodologies, shared understanding, artifacts, documentation and Non-Functional Requirements (NFR). Agile RE is a complex research field with cross-functional influences. This study will contribute to the software development body of knowledge by assessing the involvement of stakeholder and user in Agile RE, providing methodologies that make ASD more human-centric and giving an overview of requirements management in ASD.

Keywords: systematic literature review, agile software development, requirements engineering, human-computer interaction, user-centered design

Graphical abstract

Accepted manuscript

دریافت فوری ← متن کامل مقاله

ISIArticles
مرجع مقالات تخصصی ایران

✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
✓ امکان دانلود نسخه ترجمه شده مقالات
✓ پذیرش سفارش ترجمه تخصصی
✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
✓ دانلود فوری مقاله پس از پرداخت آنلاین
✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات