

Table of Contents

Methods and Support Tools

Designing Requirements: Incorporating Usage-Centered Design into an Agile SW Development Process	1
<i>Jeff Patton</i>	
Supporting Distributed Extreme Programming	13
<i>Frank Maurer</i>	
Using Ant to Solve Problems Posed by Frequent Deployments	23
<i>Steve Shaw</i>	
Supporting Adaptable Methodologies to Meet Evolving Project Needs	33
<i>Scott Henninger, Aditya Ivaturi, Krishna Nuli, and Ashok Thirunavukkaras</i>	

Introducing Extreme Programming and Agile Methods

Strategies for Introducing XP to New Client Sites	45
<i>Jonathan Rasmusson</i>	
Establishing an Agile Testing Team: Our Four Favorite “Mistakes”	52
<i>Kay Johansen and Anthony Perkins</i>	
Turning the Knobs: A Coaching Pattern for XP through Agile Metrics	60
<i>William Krebs</i>	

Experience Reports

Agile Project Management Methods for ERP: How to Apply Agile Processes to Complex COTS Projects and Live to Tell about It	70
<i>Glen B. Alleman</i>	
Extreme Programming in a Research Environment	89
<i>William A. Wood and William L. Kleb</i>	
Tailoring XP for Large System Mission Critical Software Development	100
<i>Jason Bowers, John May, Erik Melander, Matthew Baarman, and Azeem Ayoob</i>	

Testing

Acceptance Testing HTML	112
<i>Narti Kitiyakara</i>	

Probe Tests: A Strategy for Growing Automated Tests
around Legacy Code 122
Asim Jalis

An Informal Formal Method for Systematic JUnit Test Case Generation .. 131
David Stotts, Mark Lindsey, and Angus Antley

A Light in a Dark Place: Test-Driven Development
with 3rd Party Packages 144
James Newkirk

Empirical Studies

Agile Meets CMMI: Culture Clash or Common Cause? 153
Richard Turner and Apurva Jain

Circle of Life, Spiral of Death: Are XP Teams Following
the Essential Practices? 166
Vinay Ramachandran and Anuja Shukla

Tracking Test First Pair Programming – An Experiment 174
Matevz Rostaher and Marjan Hericko

How to Get the Most out of Extreme Programming/Agile Methods..... 185
Donald J. Reifer

Empirical Findings in Agile Methods 197
*Mikael Lindvall, Vic Basili, Barry Boehm, Patricia Costa,
Kathleen Dangle, Forrest Shull, Roseanne Tesoriero, Laurie Williams,
and Marvin Zelkowitz*

Pair Programming

Exploring the Efficacy of Distributed Pair Programming 208
Prashant Baheti, Edward Gehringer, and David Stotts

Pair Programming: Addressing Key Process Areas of the People-CMM ... 221
Gopal Srinivasa and Prasanth Ganesan

When Pairs Disagree, 1-2-3 231
Roy W. Miller

Educator’s Symposium

Triggers and Practice: How Extremes in Writing Relate
to Creativity and Learning 237
Richard P. Gabriel

Extreme Teaching – An Agile Approach to Education 238
Daniel Steinberg

Extreme Programming as a Teaching Process	239
<i>J. Fernando Naveda, Kent Beck, Richard P. Gabriel, Jorge Diaz Herrera, Watts Humphrey, Michael McCracken, and Dave West</i>	
From the Student’s Perspective	240
<i>James Caristi, Frank Maurer, and Michael Rettig</i>	
Perceptions of Agile Practices: A Student Survey	241
<i>Grigori Melnik and Frank Maurer</i>	
Tutorials	
XP in a Legacy Environment	251
<i>Kuryan Thomas and Arlen Bankston</i>	
XP for a Day	253
<i>James Grenning</i>	
Accelerated Solution Centers – Implementing DSDM in the Real World . . .	254
<i>Alan Airth</i>	
Refactoring: Improving the Design of Existing Code	256
<i>Martin Fowler</i>	
The Agile Database	257
<i>Pramod Sadalage and Peter Schuh</i>	
Change Wizardry – Tools for Geeks	259
<i>Joshua Kerievsky and Diana Larsen</i>	
Beyond the Customer: Agile Business Practices for XP	261
<i>Paul Hodgetts</i>	
XP Release Planning and User Stories	263
<i>Chet Hendrickson, Ann Anderson, and Ron Jeffries</i>	
Steering the Big Ship: Succeeding in Changing an Organization’s Practices	264
<i>Lowell Lindstrom</i>	
Scrum and Agile 101	266
<i>Ken Schwaber</i>	
How to Be a Coach	268
<i>William Wake and Ron Jeffries</i>	
Sharpening the Axe for Test Driven Development	269
<i>Michael Hill</i>	
Pair Programming: Experience the Difference	271
<i>Laurie Williams and Robert Kessler</i>	

How to Start an XP Project: The Initial Phase	273
<i>Holger Breitling and Martin Lippert</i>	
Effective Java Testing Strategies	275
<i>John Goodsen</i>	
Test Drive for Testers: What, When, and How Testers Do for XP Teams ..	277
<i>Lisa Crispin</i>	
Scaling Agile Processes: Agile Software Development in Large Projects ...	279
<i>Jutta Eckstein</i>	
Applying XP Tools to J2EE for the Extreme Programming Universe	281
<i>Richard Hightower</i>	
Workshops	
Distributed Pair Programming	283
<i>David Stotts and Laurie Williams</i>	
Agile Acceptance Testing	284
<i>Bret Pettichord and Brian Marick</i>	
XP Fest	285
<i>Nathaniel Talbott and Duff O'Melia</i>	
Empirical Evaluation of Agile Processes	286
<i>Grigori Melnik, Laurie Williams, and Adam Geras</i>	
Panels	
Are Testers eXtinct? How Can Testers Contribute to XP Teams?	287
<i>Ken Auer, Ron Jeffries, Jeff Canna, Glen B. Alleman, Lisa Crispin, and Janet Gregory</i>	
XP – Beyond Limitations?	288
<i>Steven Fraser, Rachel Reimitz, Ken Auer, Barry Boehm, Ward Cunningham, and Rob Mee</i>	
Extreme Fishbowl	289
<i>Zhon Johansen, Ken Auer, Brian Button, Alistair Cockburn, James Grenning, Kay Johansen, and Duff O'Melia</i>	
Agile Experiences	290
<i>Dave Thomas, John Manzo, Narti Kitiyakara, Russell Stay, and Aldo Dagnino</i>	
Author Index	291