# Table of Contents

## Papers

### Testing and Integration

Combining Formal Specifications with Test Driven Development ............. 1  
*Hubert Baumeister*

Long Build Trouble Shooting Guide ........................................ 13  
*Jonathan Rasmusson*

Acceptance Testing vs. Unit Testing: A Developer’s Perspective ............ 22  
*R. Owen Rogers*

The Role of Process Measurement in Test-Driven Development ............... 32  
*Yihong Wang and Hakan Erdogmus*

Acceptance Test Driven Planning (Experience Paper) .......................... 43  
*Richard J. Watt and David Leigh-Fellows*

### Managing Requirements and Usability

An Agile Customer-Centered Method: Rapid Contextual Design ............... 50  
*Hugh Beyer, Karen Holtzblatt, and Lisa Baker*

Suitability of FIT User Acceptance Tests for Specifying Functional Requirements: Developer Perspective .......................... 60  
*Grigori Melnik, Kris Read, and Frank Maurer*

Using Storyotypes to Split Bloated XP Stories .............................. 73  
*Gerard Meszaros*

### Pair Programming

Distributed Pair Programming: An Empirical Study .......................... 81  
*Brian F. Hanks*

Support for Distributed Pair Programming in the Transparent Video Facetop ..... 92  
*David Stotts, Jason McC. Smith, and Karl Gyllstrom*

### Foundations of Agility

Toward a Conceptual Framework of Agile Methods ............................ 105  
*Kieran Conboy and Brian Fitzgerald*
Process Adaptations

Security Engineering and eXtreme Programming: An Impossible Marriage?... 117
   Jaana Wäyrynen, Marine Bodén, and Gustav Boström

An Agile CMM (Experience Paper) ................................. 129
   Erik Bos and Christ Vriens

Adapting Extreme Programming to Research, Development and Production Environments (Experience Paper) ...................... 139
   Gil Broza

Outsourcing and Offshoring with Agility: A Case Study (Experience Paper) ... 147
   Clifton Kussmaul, Roger Jack, and Barry Sponsler

User Story Methodology Adaptations for Projects Non-traditional in Scope and Customer GUI Contributions (Experience Paper) .......... 155
   Denise M. Woit

Educators’ Symposium

Agile CS1 Labs: eXtreme Programming Practices in an Introductory Programming Course .............................. 164
   Dawn McKinney, Julie Froeseth, Jason Robertson, Leo F. Denton, and David Ensminger

A Case Study in the Use of Extreme Programming in an Academic Environment 175
   Mary Beth Smrtic and Georges Grinstein

Workshop Summaries

Workshops: Research Close to the Action .......................... 183
   Dave Astels and Grigori Melnik

Who Should Write Acceptance Tests? .................................. 184
   Christian Sepulveda, Brian Marick, Rick Mugridge, and David Hussman

Getting Leaders On-Board ........................................... 186
   Pollyanna Pixton and Mary Poppendieck

Third International Workshop on Empirical Evaluation of Agile Methods (“The Data Workshop”) .............................. 188
   Grigori Melnik and Khaled El Emam

How to Maintain and Promote Healthy Agile Culture .................. 190
   David Hussman

UI Design as Part of an Agile Process .................................. 192
   Mike Kuniavsky and William Pietri

Agile Development for Embedded Software .......................... 194
   James Grenning, Johan Peeters, and Carsten Behring
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refactoring Our Writings</td>
<td>196</td>
</tr>
<tr>
<td><em>Joshua Kerievsky</em></td>
<td></td>
</tr>
<tr>
<td>Agile Tests as Documentation</td>
<td>198</td>
</tr>
<tr>
<td><em>Jonathan Kohl and Brian Marick</em></td>
<td></td>
</tr>
<tr>
<td>Fit Fest</td>
<td>200</td>
</tr>
<tr>
<td><em>Robert C. Martin and Micah Martin</em></td>
<td></td>
</tr>
<tr>
<td><strong>Panels</strong></td>
<td></td>
</tr>
<tr>
<td>Agile Project Management</td>
<td>201</td>
</tr>
<tr>
<td><em>Moderator: Frank Maurer</em></td>
<td></td>
</tr>
<tr>
<td>*Panelists: Mike Cohn, Mike Griffiths, Jim Highsmith, Ken Schwaber,</td>
<td></td>
</tr>
<tr>
<td>and Philippe Kruchten</td>
<td></td>
</tr>
<tr>
<td>Agile Methods for Safety-Critical Software Development</td>
<td>202</td>
</tr>
<tr>
<td><em>Moderator: Kelly Weyrauch</em></td>
<td></td>
</tr>
<tr>
<td>*Panelists: Mary Poppendieck, Ron Morsicato, Nancy Van Schooenderwoert,</td>
<td></td>
</tr>
<tr>
<td>and Bill Pyritz</td>
<td></td>
</tr>
<tr>
<td>Is XP Still Relevant?</td>
<td>203</td>
</tr>
<tr>
<td><em>Moderator: Pete McBreen</em></td>
<td></td>
</tr>
<tr>
<td>*Panelists: Dave Astels, Janet Gregory, Daniel H. Steinberg, Lisa Crispin,</td>
<td></td>
</tr>
<tr>
<td><em>Jim Highsmith, and Robert C. Martin</em></td>
<td></td>
</tr>
<tr>
<td><strong>Tutorials</strong></td>
<td></td>
</tr>
<tr>
<td>Introduction to Tutorials</td>
<td>204</td>
</tr>
<tr>
<td><em>Brian Button</em></td>
<td></td>
</tr>
<tr>
<td>Agile Requirements: Tailoring the Functional Requirements Specification Process to Improve Agility</td>
<td>205</td>
</tr>
<tr>
<td><em>Jennitta Andrea and Gerard Meszaros</em></td>
<td></td>
</tr>
<tr>
<td>Advanced Fit Lab</td>
<td>206</td>
</tr>
<tr>
<td><em>Rick Mugridge</em></td>
<td></td>
</tr>
<tr>
<td>Effective User Stories</td>
<td>208</td>
</tr>
<tr>
<td><em>Mike Cohn</em></td>
<td></td>
</tr>
<tr>
<td>Outsourcing and Offshoring with Agility</td>
<td>209</td>
</tr>
<tr>
<td><em>Clifton Kussmaul</em></td>
<td></td>
</tr>
<tr>
<td>Traditional and Agile Project Management: A Practical Mapping</td>
<td>210</td>
</tr>
<tr>
<td><em>Mike Griffiths</em></td>
<td></td>
</tr>
<tr>
<td>The Agile/XP Team Primer: Exploring Self-organizing Teams</td>
<td>212</td>
</tr>
<tr>
<td><em>Diana Larsen</em></td>
<td></td>
</tr>
<tr>
<td>Coaching Agile Software Teams</td>
<td>213</td>
</tr>
<tr>
<td><em>William C. Wake and Ron Jeffries</em></td>
<td></td>
</tr>
</tbody>
</table>
Getting the Software You Need:  
A Practical Approach for Testers and the Customer Team .................. 214
  *Lisa Crispin*

First Encounter with Agile Methods ........................................... 215
  *Frank Maurer and Grigori Melnik*

Working Effectively with Legacy Code ....................................... 217
  *Michael C. Feathers*

The Art of Acceptance Testing .................................................. 218
  *Micah Martin*

Agile Planning, Tracking, and Project Management Boot Camp ............ 219
  *Paul Hodgetts*

Tutorial: Agile Project Management – Reliable Innovation ................ 221
  *Jim Highsmith*

XP for a Day .............................................................................. 222
  *James Grenning and Micah Martin*

Scripting Web Tests ..................................................................... 224
  *Brett Pettichord, Brian Marick, Paul Rogers, and Jonathan Kohl*

Interaction Design Meets Agility:  
Practicing Usage Centered Design on Agile Development Projects ........ 226
  *Jeff Patton*

Agile Implementations, Agile Impediments, and Agile Management ........ 227
  *Ken Schwaber*

The Lean Maturity Measure Assessment and Implementation .............. 228
  *Mary Poppendieck*

Agile Databases .......................................................................... 229
  *Pramod Sadalage*

Transitioning to XP ...................................................................... 230
  *Michael Hill*

Large Scale Agile Software Development ...................................... 231
  *Ron Crocker*

Refactoring to Patterns .................................................................. 232
  *Joshua Kerievsky*

**Author Index** ........................................................................... 233
Extreme Programming and Agile Methods - XP/Agile Universe 2004
4th Conference on Extreme Programming and Agile Methods, Calgary, Canada, August 15-18, 2004, Proceedings
Zannier, C.; Erdogan, H.; Lindstrom, L. (Eds.)
2004, XIV, 238 p., Softcover
ISBN: 978-3-540-22839-4